VICTOR®
胜利仪器

TEST & MEASUREMENT
INSTRUMENTS

2026

PRODUCT CATALOGUE

VICTOR INSTRUMENTS · XI'AN BEICHENG ELECTRONICS



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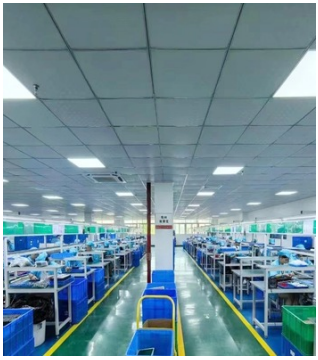
VICTOR®
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COMPANY PROFILE

VICTOR Instruments · Xi'an Beicheng Electronics Co., Ltd.











VICTOR is a brand of Xi'an Beicheng Electronics Co., Ltd., established in 2013. The company specialises in digital multimeters, megohmmeters, thermometers, tachometers, vibrometers, lux meters, function generators, LCR meters, oscilloscopes and other electronic testing and measuring equipment.

Its range also covers electronic test tools, measurement solutions, environmental products and ODM/OEM programmes. The factory, formerly Shenzhen VICTOR Hi-Tech Co., Ltd., moved to Xi'an in 2013; the RuoShui trademark was registered for overseas markets. Quality management covers design, production and inspection. Most products comply with CE, RoHS and UKCA. VICTOR products are exported to the USA, Germany, Poland, Brazil, South Africa, India, Russia and Korea.

OVERSEAS DISTRIBUTION

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Bench-Type DMM

8045 mini



Technical Specifications

Function settings
Model:VICTOR 8045 mini
Structure: New design, newly opened mold (monochrome)
Functional features: No knife disc button function conversion, TFT color screen display, upper computer software.
Display: Number of words measured:29999(30000 Counts) LCD: 3.5inch TFT Resolution 320 x RGB x 480
Specification
DC Voltage(DCV): 300mV/3V/30V/300V/1000V (Can switch between automatic range and manual range)
AC Voltage(ACV): 300mV/3V/30V/300V/750V(Frequency response: 40 ~ MAX:10kHz)True RMS
Dc current(DCI): 300μA /3mA /30mA/300mA/3A /10A (Can switch between automatic range and manual range)
Ac current(ACI): 300μA /3mA /30mA/300mA/3A /10A(Frequency response: 40 ~ MAX:10kHz)True RMS
Resistance(OHM): 300Ω/3k/30k/300k/3M/30M/300M (Can switch between automatic range and manual range)
Capacitance(CAP): 30nF/300nF/3μF/30μF/300μF/3mF/30mF/300mF
Temperature(Temp): -40℃~1000℃,-40℉~1832℉
Frequency(Freq): 30Hz/300Hz/30kHz/300kHz/3MHz/30MHz/300MHz
(DIODE): Measure the voltage drop of the diode, with an open circuit voltage of approximately 3.2V
Continuity(BZ): < about 30Ω Beep alarm+display indication
Other functional items:
1、Has measurement/stop(Run/Stop)function;
2、Dual display function button switch (Dual), AC can dual display accompanying frequency, frequency can dual display duty cycle;
3、Math calculation button switch (Math), can display MAX/MIN;
4、Product model and version information button display(Utility);
5、Manual range switching and up/down conversion(Range/↑/↓)。
6、 The product is equipped with 2pcs 18650 lithium batteries (with a total charging capacity of 4400mAh), which can be charged and measured simultaneously with the product
7、 The display screen has a battery level grading display, which shows the charging status during charging. At the same time, there is a charging LED indicator next to the charging cable socket (as a charging indicator when the product is turned off). The red LED flashes during charging, and remains on when fully charged or not charged. After the product is turned off, the indicator light will turn off after about 30 seconds (when no load is detected).
8、The upper computer software that comes with the product can be used for measurement, testing, and data recording and storage

Packaging configuration		
Manual	1pc	Brochure
10A test lead	1pair	
Temperature probe	1 pc	K type(-20℃~250℃)
Color box	1set	(Bare machine mounted plastic bag, with pearl cotton padding used to secure and protect the product and separate accessories inside)
Type-Ccharging cable	1pc	1 meter long
USB data cable	1pc	USB(Square Type-B interface) 1 meter long

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Bench-Type DMM

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8155



Technical data 5 1/2

Model		8155
Display screen		3.5" TFT LCD (resolution of 320*480)
Number of display digits		5 1/2
Signal terminal		Front
Fastest measuring speed		6 readings/s
Function	No.	Uncertainty, ±(% of reading + least significant digit)
DCV	Uncertainty	0.015 %+ 3
	Measurement range	1 uV~1000 V
	Maximum resolution	1uV
ACV	Uncertainty	0.2%+ 100
	Measurement range	1 uV~750 V
	Maximum resolution	1uV
	Frequency range	40Hz ~ 100kHz
DCA	Uncertainty	0.05 % +10
	Measurement range	0.001 uA ~10 A
	Maximum resolution	0.001uA
ACA	Uncertainty	0.3%+400
	Measurement range	0.001 uA ~ 10 A
	Maximum resolution	0.001uA
	Frequency range	40 Hz ~ 5kHz
Resistance	Uncertainty	0.02 %+ 6
	Measurement range	0.001 Ω ~20MΩ
	Maximum resolution	0.001Ω
Frequency/cycle	Uncertainty	0.1%+3
	Measurement range	200 Hz ~20 MHz
	Maximum resolution	0.001Hz
Capacitance	Uncertainty	2%+5
	Measurement range	2nF ~ 10 mF
	Maximum resolution	1 pF
Mathematical functions:		Relative measurement, max/min, dB, dBm, reading hold
Data storage/reading		Yes
Interfaces		USB Device, RS232,(Optional :USB Host LAN,Gpib)
Trigger measurement		Yes
Square-wave output		Yes
Fast measurement		Yes
Resistance 4-line measurement		Yes
External trigger measurement		Yes
AC+DC measurement		Yes
Calibration		Yes
On-off/diode		Yes
Limit test function		Yes

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Bench-Type DMM

8165A/8165



Technical data 6 1/2

Model		8165A	8165
Display		3.5 inches color screen (with resolution of 320*480)	
Displayed digit		6 1/2	
Signal terminal		Front/Rear	Front
Maximum measuring speed		2300 readings/second	
Function	Item	Uncertainty, ± (% measurement value + % measurement range)	
DCV	Uncertainty	0.0030+0.0005	
	Measurement range	0mV-1000V	
	Maximum resolution	100nV	
ACV	Uncertainty	0.06+0.03	
	Measurement range	1mV-750V	
	Maximum resolution	100nV	
	Frequency range	3Hz-300kHz	
DCA	Uncertainty	0.05+0.006	
	Measurement range	0uA-12A	
	Maximum resolution	100pA	
ACA	Uncertainty	0.10+0.04	
	Measurement range	1uA-12A	
	Maximum resolution	100pA	
	Frequency range	3Hz-10kHz	
Resistance	Uncertainty	0.01+0.001	
	Measurement range	0Ω-1GΩ	
	Maximum resolution	10uΩ	
Frequency/ period	Uncertainty	0.007	
	Measurement range	3Hz-300kHz	
	Maximum resolution	1uHz	
Capacitance	Uncertainty	1+0.3	
	Measurement range	0nF-100mF	
	Maximum resolution	1pF	
On-off/Diode		Yes	
Proportion (DC: DC)	Reference terminal range	100mV-10V	
	Input terminal range	100mV-1000V	
Temperature	Type	Platinum resistance, thermistor and user - defined sensor	
	Maximum resolution	0.001℃	
Math function		Relative (ax+b), maximum/minimum/average, standard deviation, dB, dBm, reading-keeping and limits test	
Graph		Histogram and tendency chart	
Interface		RS-232, IEEE 488, LAN, USB Device, USB Host, Trig IN/OUT	
Programming language		SCPI compatible with Agilent 34401A and Fluke 45	

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85C

Technical data

Modle	85C		85D	
basic skills	Range	Precision	Range	Precision
DC voltage	2V/20V/200V	± (0.5%+3)	6V/60V	± (0.5%+3)
	600V	± (1.0%+10)	600V	± (1.0%+10)
AC voltage	2V	± (1.0%+5)	6V	± (0.8%+5)
	20V/200V	± (0.8%+5)	60V	
	600V	± (1.2%+10)	600V	± (1.2%+10)
DC current	600mA	± (1.0%+5)	600mA	± (1.0%+5)
	6A	± (1.5%+10)	6A	± (1.5%+10)
	10A	± (2.0%+5)	10A	± (2.0%+5)
AC current	600mA	± (1.5%+10)	600mA	± (1.5%+10)
	6A	± (2.0%+5)	6A	± (2.0%+5)
	10A	± (3.0%+10)	10A	± (3.0%+10)
Resistance	2000Ω	± (1.3%+5)	600Ω	± (1.3%+5)
	20kΩ/200kΩ	± (0.8%+3)	6kΩ/60kΩ/600kΩ	± (0.8%+3)
	2MΩ	± (1.5%+3)	6MΩ	± (1.5%+3)
	20MΩ	± (2.0%+10)	60MΩ	± (2.0%+10)
Capacitance	*		60nF/600nF/6uF/ 60uF/600uF	± (3.5%+20)
			6mF/60mF	± (5.0%+10)



Features	85C	85D
Display	LCD digital display	LCD digital display
Operation	Full intelligent automatic range	Full intelligent automatic range
Max display	1999	5999
Diode test	*	√
CAP	*	√
Firewire recognition	√	√
HOLD	√	√
NCV	√	√
Backlight	√	√
Overload	OL displayed on LCD	OL displayed on LCD
Low voltage	√	√
On-off beep	√	√
Operating°C	0~40°C <75%RH	0~40°C <75%RH
Store (°C)	-20~60°C <85%RH	-20~60°C <85%RH
Shut-down	√	√
Unit symbol	√	√
Resistance	10MΩ	10MΩ
Frequency response	40~1KHz	40~1KHz
Power supply	AAA 1.5V*2	AAA 1.5V*2
Product Size	146*72*50mm	146*72*50mm
Weight	210g	210g

85D



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201



202



203

Function	Range	201	202	203
DCV	200mV	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)
	2V/20V/200V	±(0.5%+3)	±(0.5%+3)	±(0.5%+3)
	600V	±(1.0%+10)	±(1.0%+10)	±(1.0%+10)
ACV	200V/600V	±(1.2%+10)	±(1.2%+10)	±(1.2%+10)
DCA	200uA	±(1.0%+10)	±(1.0%+10)	±(1.0%+10)
	200mA	±(1.2%+8)	±(1.2%+8)	±(1.2%+8)
	10A	±(2.0%+5)	±(2.0%+5)	±(2.0%+5)
Resistance	200Ω	±(0.8%+5)	±(0.8%+5)	±(0.8%+5)
	2kΩ/20kΩ/200kΩ	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
	2MΩ		±(1.0%+5)	
	20MΩ	±(1.0%+5)		±(1.0%+5)
	200MΩ		±[5.0%+30]	
Capacitance	200uF		±(5.0%+10)	
Frequency	20kHz			±(1.0%+10)
Temperature	-20°C~1000°C			<400°C ±(1.0%+5) ≥400°C ±(1.5%+15)
	-4°F~1832°F			< 752°F±(1.0%+5) ≥752°F ±(1.5%+15)
Battery measurement function		√		
Diode test		√	√	√
Continuity alarm		√	√	√
Data hold		√	√	√
Torch function		√	√	√
Back light function		√	√	√
NCV measurement		√	√	√
Auto shutdown		√	√	√
True RMS		√	√	√
Operating method		Manual range	Manual range	Manual range
Low voltage display		" " appears.		
Display method		LCD display		
Max. display		1999 (3 1/2 digits) Auto polarity display		
Measuring method		AD conversion measurement		
Sampling rate		About 3 times/s		
Over range indication		The MSD displays"OL"		
Dimension		146mm*72mm*50mm		
Weight		About 232g (include batteries)		

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205

Technical data

Function	Range	205	205A
DCV	600mV	±(0.5%+5)	±(0.5%+5)
	6V/60V	±(0.5%+3)	±(0.5%+3)
	600V	±(1.0%+10)	±(1.0%+10)
ACV	6V/60V	±(0.8%+5)	±(0.8%+5)
	600V	±(1.2%+10)	±(1.2%+10)
DCA	600uA/6000uA		±(1.0%+10)
	60mA		±(1.2%+8)
	600mA	±(1.2%+8)	
	6A		±(2.0%+5)
	10A	±(2.0%+5)	
ACA	600uA/6000uA		±(1.0%+10)
	60mA		±(1.5%+15)
	600mA	±(1.5%+15)	
	6A		±(3.0%+10)
	10A	±(3.0%+10)	
Resistance	600Ω	±(0.8%+5)	±(0.8%+5)
	6kΩ		±(0.8%+5)
	60kΩ/600kΩ/6MΩ	±(0.8%+4)	±(0.8%+4)
	60MΩ		±(1.2%+10)
Capacitance	10nF	±(5.0%+40)	±(5.0%+40)
	100nF/1uF/10uF/100uF	±(3.5%+20)	±(3.5%+20)
	2mF	±(5.0%+40)	±(5.0%+40)
Frequency	10Hz/100Hz/1kHz/10kHz/ 100kHz/2MHz	±(1.0%+10)	±(1.0%+10)
Temperature	-20°C~1000°C		<400°C ±(1.0%+5) ≥400°C ±(1.5%+15)
	-4°F~1832°F		< 752°F±(1.0%+5) ≥752°F ±(1.5%+15)
Diode test		√	√
Continuity alarm		√	√
Data hold		√	√
Torch function		√	√
Back light function		√	√
NCV measurement		√	√
Auto shutdown		√	√
True RMS		√	√
Operating method		Manual range	Auto range
Low voltage display		" " symbol appears.	
Display method		LCD display	
Max. display		5999 (3 5/6 digits) Auto polarity display	
Sampling rate		About 3 times/s	
Over range indication		The MSD displays"OL"	
Dimension		146mm*72mm*50mm	
Weight		About 232g (include batteries)	



205A



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9205



Technical data

Model	VC9205		VC9208	
DC Voltage	Resolution	Accuracy	Resolution	Accuracy
	200mV/2V/20V/200V	±(0.5%+4)	200mV/2V/ 20V/200V	±(0.5%+4)
	1000V	±(0.8%+15)	1000V	±(0.8%+15)
AC Voltage	2V/20V/200V	±(0.8%+8)	2V/20V/200V	±(0.8%+8)
	750V	±(1.2%+15)	750V	±(1.2%+15)
DC Current	200uA/2mA/20mA	±(1.5%+10)	*	*
	200mA	±(1.5%+10)	200mA	±(1.5%+10)
	10A	±(2.5%+15)	10A	±(2.5%+15)
AC Current	200mA	±(2.0%+15)	200mA	±(2.0%+15)
	10A	±(3.5%+ 15)	10A	±(3.5%+ 15)
Capacitance	20nF/2uF	±(2.5%+20)	20nF/2uF	±(2.5%+20)
	200uF	±(5.0%+10)	200uF	±(5.0%+10)
Frequency	*	*	2kHz/200kHz	±(3.0%+18)
Resistance	200Ω	±(0.8%±5)	200Ω	±(0.8%±5)
	2kΩ/20kΩ/200kΩ	±(0.8%±3)	2kΩ/20kΩ/200kΩ/2MΩ	±(0.8%±3)
	20MΩ	±(1.0%+25)	20MΩ	±(1.0%+25)
	200MΩ	±5%(reading-10)+30)	*	*
Celsius	*	*	(-20 - 1000)℃	±(1.5%+15)≥400°C

9208



Special Function	VC9205	VC9208
Display	LCD	
Transistor test	√	
Low voltage indication	√	
Data Hold	√	
Auto power off Max. Display	1999 (31/2 digits) digit automatic polarity display	
Size	174 * 87* 34mm	
Weight	About190g	
Power	9VBattery (6F22)	
Color	Orange + Black	
Dimensions	61*32mm	

9205B



Technical parameter

Model	9205B	9205C	
Basic skills	Range		Precision
DCV	200mV/2V/20V/200V/1000V		±(0.5%+3)
ACV	2V/20V/200V/750V		±(0.8%+5)
DC A	20mA/200mA/20A		±(1.0%+3)
ACA	20mA/200mA/20A		±(1.0%+3)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ		±(0.8%+2)
Capacitance	20nF/200nF/2uF/20uF/200uF	200nF/2uF/20uF/200uF	±(3.0%+3)
Frequency	/	200kHz	±(0.5%+3)
Temperature	/	-40℃~1000℃	±(0.75%+4)

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VICTOR 9205D 3 1/2 Digital Multimeter

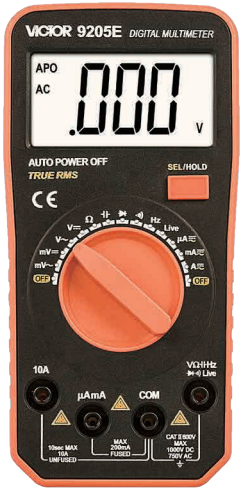
9205D



Technical data

Basic Function	9205D	Accuracy
DCV	200mV/2V/20V/200V	±(0.5%+4)
	1000V	±(0.8%+15)
ACV	2V/20V/200V	±(0.8%+4)
	750V	±(1.0%+15)
DCA	200uA/2mA/20mA/200mA	±(0.8%+5)
	10A	±(1.0%+15)
ACA	200mA	±(2.0%+15)
	10A	±(3. 5%+15)
Resistance	200Ω	±(0.8%+5)
	2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	±(1.0%+25)
	200MΩ	±(5.0%+30)
Capacitance	20nF/2μF	±(2.5%+20)
	200μF	±(5.0%+10)
Special Functions		
Maximum Display	1999 (3 1/2) bit automatic polarity display	
Diode test	√	
On/Off Beep	√	
Triode	√	
True effective value	√	
Low voltage display	Battery symbol display	
Fire line judgment	√	
Automatic shutdown	No operation for 15 minutes	
Sampling rate	3 times/second	
ACV frequency response	(40-1000)Hz	
Over range prompt	Display OL at the highest position	
Work environment	(0-40)℃, relative humidity<80%	
Storage environment	(-20~60)℃, relative humidity<85%	
Power	9V battery	
Size	167*81*43mm	
Weight	About 167g	

9205E



Basic Function	9205E	Accuracy
DC mV	200mV	±(1.0%+5)
DCV	200mV/2V/20V/200V	±(1.0%+2)
	1000V	±(1.2%+10)
AC mV	200mV	±(1.0%+8)
ACV	2V/20V/200V	±(1.2%+2)
	750V	±(1.4%+10)
DCA	200uA/2000uA/20mA/200mA	±(1.2%+3)
	2A/10A	±(1.5%+10)
ACA	200uA/2000uA/20mA/200mA	±(2.0%+15)
	2A/10A	±(3.5%+15)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	±(1.0%+25)
	200MΩ	
Capacitance	20nF/200nF/2μF/20μF	±(2.0%+25)
	200μF	±(5.0%+10)
Frequency	20Hz/200Hz/2kHz/20kHz/200kHz	±(0.5%+10)
Special Functions		
Maximum Display	1999	
Power supply	9V	
Diode forward voltage drop	"Test current: approximately 1mA Open circuit voltage: approximately 2.5V"	
"The buzzer makes a long sound, and the resistance value of the testing two points is about less than (50±20)Ω"	Test current: about 0.28mA	

EMC
LVD CE

Digital Multimeter

830L



3½



Technical data

Basic Function	Range	Basic accuracy VC830L	VC921
DC Voltage	200mV/2V/20V/200V/600V	±(0.5%+4)	
	400mV/4V/40V/400V/600V		±(0.5%+4)
AC Voltage	200V/600V	±(1.2%+10)	
	400mV/4V/40V/400V/600V		±(0.8%+6)
DC Current	20uA/200uA/2mA/20mA/200mA/10A	±(1.5%+3)	
Resistance	200Ω/2kΩ/20kΩ/200kΩ/20MΩ	±(0.8%+5)	
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ		±(0.8%+4)
Capacitance	4nF/40nF/400nF/4uF/40uF/2000uF		±(3.5%+8)
Frequency	100Hz/1000Hz/10kHz/100kHz/1MHz/10MHz		±(0.5%+4)

921



3¾



Special Function	VC830L	VC921
Max.value measurement		√
Data hold		√
Auto power off		√
Diode test / Continuity buzzer	√	√
Low battery indication	√	√
Shock proof protection	√	√
Duty cycle measurement		√
Input impedance	10MΩ	10MΩ
Sampling rate	3 times/s	3 times/s
AC Frequency response	(40-400)Hz	(40-400)Hz
Operation way	Manual range	Auto range
Max.Dispiay	1999	3999
LCD size	57×33mm	55×43mm
Battery	9V(6F22)	3V(1.5V×2)

General Characters

Product Net Weight	Approx:180g 150g(830L)
Product dimension	145×80×28mm 138×72×35mm（830L)
Standard Accessories	Test leads; battery; instruction manual
Standard Quantity Per Carton	60PCS
Carton size	470×325×350mm
Standard Gross Weight	Approx:16.4kg

EMC
LVD CE

923E



VICTOR 923E Intelligent Large Screen Digital Multimeter
with VA color screen 5999 bit display

Technical data

Basic Function	923E	Accuracy
DC voltage	600mV/6V/60V600V	±(0.5%+3)
AC voltage	6V/60V/600V	±(1.0%+3)
DC current	600mA/6A/10A	±(1.2%+3)
AC current	600mA/6A/10A	±(1.2%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+5)
	60MΩ	±(2.0%+ 10)
Capacitance	6nF/60nF/600nF/6uF/60uF/600uF	±(4.0%+5)
	6mF	±(5.0%+5)
	60mF	±(10%+ 10)
Frequency	6Hz/60Hz/600Hz/6kHz/60kHz/600kHz/6MHz/10MHz	±(1.0%+3)
Temperature	(-40~1000)℃ or (-40~1832)℉	±3℃ or ±6℉
Essential information		
LCD display	5999 max	
Overload	OL	
Alarm signal	Audible and visual alarm	
Power	1.5V AAA*4	
Low voltage	√	
Auto shutdown	No operation for 15 minutes	
Size	144*73*27mm	
Weight	About 235g	
Work environment	0~40℃(<75%RH)	
Storage	-20~ 60℃(<85%RH)	
Jack prompt	√	
NCV	√	
Flashlight	√	
Data retentio	√	
Diode	√	
On off buzzer	√	

EMC
LVD CE

Digital Multimeter

925



Technical data

Model	925	
Basic Function	**Range**	**Accuracy**
DC Voltage	10V/100V	±(0.5%+3)
	600V	±(1.0%+10)
AC Voltage	10V/100V	±(0.8%+5)
	600V	±(1.2%+10)
DC Current	60mA	±(1.0%+5)
	600mA	±(1.5%+10)
AC Current	60mA	±(1.5%+10)
	600mA	±(2.0%+ 5)
Capacitance	100nF/1000nF	±(4.0%+20)
	10uF/100uF/1000uF/1mF	±(3.5%+20)
	10mF/100mF	±(10%±10)
Frequency	10Hz~1MHz	±(0.1%±5)
Resistance	1000Ω	±(1.3%+5)
	10kΩ/100kΩ/1MΩ	±(0.8%±3)
	10MΩ	±(1.5%+3)
	20MΩ	±(2.0%±10)

Special Function	
High battery indication	√
Auto power off	√
Diode	√
Display	LCD displaying
Over range indication	MSD displays "OL"
Max. Display	9999
Size	137×70×20 mm
Weight	approx.133g
Power	built-in 3.7V 500mA lithium battery
Operating environment	Temperature (0 - 40)℃,humidity<75%RH
Storage environment	Temperature (-20 - 60)℃,humidity<85%RH

EMC
LVD CE

VICTOR 15B 17B MAX NEW Full Function Digital Multimeter 1000V fuse True RMS Multimeter

15B MAX



17B MAX



Technical data

Model		15B MAX	17B MAX
Basic Function	Range	Accuracy	
DCV	600mV	±(1.0%+10)	
	6V/60V/600V/1000V	±(0.5%+3)	
ACV	600mV	±(3.0%+3)	
	6V/60V/600V/1000V	±(1.0%+3)	
DCA	600uA/6000uA/60mA/500mA/6A/10A	±(1.5%+3)	
ACA	600uA/6000uA	±(1.2%+8)	
	60mA/500mA	±(1.5%+8)	
	6A/10A	±(2.0%+8)	
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(0.5%+3)	
	60MΩ	±(2.0%+5)	
	6nF	±(5.0%+10)	
Capacitance	60nF/600nF	±(2.0%+5)	
	6uF/60uF/600uF/6mF	±(5.0%+5)	
Frequency	10Hz~10MHz	±(0.1%+3)	
Duty cycle	1%~99%	±(1.0%+4)	
Temperature	(-55~1000)°C/(-67~1832)°F	/	±(1.5%1+5)
Special Functions			
Display	LCD display		
Max display	5999 (3 5/6) digit and unit display		
Conversion rate	3 times per second		
Over range	The highest position displays "OL"		
Low voltage	The battery symbol appears		
T-RMS	√		
Diode	√		
on/offbuzzing	√		
Max/min	√		
One click wake-up	√		
Sound and light alarm	Sound and light alarm for incorrect operation of current mode		
Data retention	√		
Backlight display	√		
Relative value	√		
Automatic shutdown	√		
work environment	(0-40) °C, relative humidity<75%		
Storaye environment	-10-50°C, relative humidity<85%		
Power Supply	1.5V * 2 AA batteries		
size	187x88x45mm		
weight	About 427g		

EMC
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6012C



6012D



VICTOR 6012C VICTOR 6012D 3 5/6 Pen Type Multimeter Instruction manual

Summary

It is a pen-type multimeter with 3 5/6 digit display,stable performance, high precision, high reliability, clear reading. 180-degree flip display and overload protection function. Powered by AAA 1.5V battery, the instrument features a LCD display, it is easy to carry and can measure AC/DC voltage (True RMS). AC/DC current, resistance and on-off test, capacitance, diode, zero-line judgment, non-contact voltage detection. It is a multimeter with excellent performance, the ideal tool for laboratories, factories, radio enthusiasts and families.

Model	VICTOR 6012C		VICTOR 6012D	
	Resolution	Accuracy	Resolution	Accuracy
DC Voltage	6V/60V/600V	±(0.5%+4)	6V/60V/600V1000V	±(0.5%+4)
	1000V	±(0.8%+10)	1000V	±(0.8%+10)
AC Voltage	6V/60V/600V	±(0.5%+4)	6V/60V/600V	±(0.5%+4)
	750V	±(0.8%+10)	750V	±(0.8%+10)
Capacitance	10nF/100nF/1μF/10μF/100μF/1mF/10mF	±(3.5%+20)	10nF/100nF/1μF/10μF/100μF/1mF/10mF	±(3.5%+20)
	60mF	±(5%+3)	60mF	±(5%+3)
Frequency			10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/8MHz	±(0.1%+3)
Resistance	600Ω	±(0.8%±5)	600Ω	±(0.8%±5)
	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%±3)	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%±3)
	60MΩ	±(2.5%±3)	60MΩ	±(2.5%±3)
Environmental temperature	(-20~50)°C/(0~122)°F	±(1.0%+5)	(-20~50)°C /(0~122)°F	±(0.75%+5)

Special Function	VICTOR 6012C	VICTOR 6012D
Diode	√	√
Continuity buzzer	√	√
Flashlight Function	√	√
Data Hold	√	√
Display	Black and White screen	Color screen
Auto power off	√	√
Flashlight	√	√
Sample rate	about 3/sec	about 3/sec
Overrange indication	The highest digit displays "OL"	The highest digit displays "OL"
Phase sequence measurement		√
Zero/Fire Line measurement	√	√
NCV measurement	√	√
Operation way	Auto range	Auto range

Size	170X24X21mm
Weight	Approx.50g
Power supply	1* 15V AAA
Display size	30x11. 5mm
Color	Black + Orange

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Digital Multimeter

VICTOR®

86B



86C



Model	86B	86C	86D	
	Resolution			Accuracy
DC Voltage	400mV/4V/40V/400V	400mV/4V/40V/400V	600mV/6V/60V/600V	±(0.5%+4)
	1000V	1000V	1000V	±(1.0%+6)
DC millivolts	40mV/400mV	/	/	±(0.5%+5)
AC millivolts	40mV/400mV	/	/	±(1.0%+6)
AC voltage	4V/40V/400V	4V/40V/400V	6V/60V/600V	± (0.8%+10)
	750V	750V	750V	±(1.0%+10)
DC current	400uA/4000uA/ 40mA/400mA	400uA/4000uA/ 40mA/400mA	600uA/6000uA/ 60mA/600mA	±(1.0%+10)
	4A/10A	4A/10A	6A/10A	±(1.2%+10)
AC current	400uA/4000uA/ 40mA/400mA	400uA/4000uA/ 40mA/400mA	600uA/6000uA/ 60mA/600mA	±(1.5%+10)
	4A/10A	4A/10A	6A/10A	±(2.0%+15)
Resistance	400Ω	400Ω	600Ω	±(0.8%+5)
	4Ω/40kΩ/400kΩ/4MΩ	4kΩ/40kΩ/400kΩ/4MΩ	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%+4)
	40MΩ	40MΩ	60MΩ	±(1.2%+10)
Capacitance	40nF	40nF	60nF	±(5.0%+30)
	400nF/4uF/40uF	400nF/4uF/40uF	600nF/6uF/60uF	±(3.5%+8)
	400uF/4mF/40mF	400uF/4mF/40mF	600uF/6mF/60mF	±(5.0%+10)
Frequency	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/30MHz	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/30MHz	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/30MHz	±(0.5%+4)
Temperature	-20C~-400°C	-20°C~400°C	-20°C-400°C	±(1.0%+5°C)
	400°C~1000°C	400°C~1000°C	400°C~1000°C	±(1.5%+15°C)

General specifications			
Max Display	3999 (3 3/4)	3999 (3 3/4)	5999 (3 5/6)
Simulated bar	/	61 segment simulation bar	
Transistor	/	/	√
Diode	√		
On/off buzzing	√		
USB	√		
Relative value	√		
Max/min	√		
Data retention	√		
LIVE	√		
NCV	√		
Backlight	Display battery symbols		
Low voltage	Display "OL"		
Over range	Shutdown after about 15 minutes of inactivity		
Auto shutdown	3 times/second		
Sampling rate	0-40 C, relative humidity<80%		
Work environment	-10-50 °C, relative humidity<80%		
Storage environment	Four AAA batteries		
Source	189*88*56mm		
Size	Approximately 423g		
Weight	Instruction manual, color box, certificate of conformity, pen, crocodile clip,		
Parts	cloth bag, USB data cable, K-type thermocouple, adapter (only 86D)		

EMC
LVD CE

Digital Multimeter

86D



86E



Model	86E	
	Resolution	**Accuracy**
DC Voltage	220mV/2.2V/22V/220V	±(0.5%+10)
	1000V	±(0.1%+10)
AC voltage	220mV	± (1.0%+25)
	2.2V/22V/220V	± (0.8%+25)
	750V	±(1.0%+25)
DC current	220uA/2200uA/22mA	±(0.5%+10)
	220mA	±(0.8%+10)
	10A	±(2.0%+25)
AC current	220uA/2200uA/22mA	±(1.2%+25)
	220mA	±(1.5%+25)
	10A	±(2.5%+35)
Resistance	200Ω	±(0.5%+30)
	2.2kΩ/22kΩ/220kΩ/2.2MΩ	±(0.4%+5)
	22MΩ	±(0.5%+25)
	220MΩ	±(5.0%+10)
Capacitance	22nF/220uF/2.2uF/22uF/220uF	±(2.5%+15)
	2.2mF	±(4.0%+10)
	22mF/220mF	
Frequency	22Hz/220Hz/22kHz/220kHz/2.2MHz/22MHz	±(1.0%+4)
	50MHz	±(0.2%+4)
	>50MHz	
Temperature	-20C~-400°C	±(1.0%+5°C)
	400°C~1000°C	±(1.5%+15°C)
General specifications		
Max Display	22000 (4 1/2)	
Simulated bar	46 segment simulation bar	
Diode	√	
On/off buzzing	√	
USB	√	
Relative value	√	
Max/min	√	
Data retention	√	
Backlight	√	
Low voltage	Display battery symbols	
Over range	Display "OL"	
Auto shutdown	Shutdown after about 15 minutes of inactivity	
Sampling rate	2times/second	
Work environment	0-40 C, relative humidity<80%	
Storage environment	-10-50 °C, relative humidity<80%	
Source	Four AAA batteries	
Size	189*88*56mm	
Weight	Approximately 423g	
Parts	Instruction manual, color box, certificate of conformity, pen, crocodile clip,cloth bag, USB data cable, K-type thermocouple	

EMC
LVD CE

Digital Multimeter

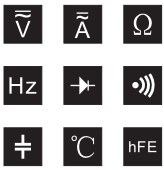
VICTOR®

Technical data

Basic Function	Range	Basic accuracy 88B	88C
DC Voltage	200mV/2V/20V/200V/1000V	±(0.5%+3)	±(0.5%+3)
AC Voltage	2V/20V/200V/750V	±(0.8%+5)	
	200mV/2V/20V/200V/750V		±(0.8%+5)
DC Current	200uA/2mA/20mA/200mA/20A	±(0.8%+4)	
	2mA/20mA/200mA/20A		±(0.8%+3)
AC Current	20mA/200mA/20A	±(1.0%+5)	
	2mA/20mA/200mA/20A		±(1.0%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ	±(0.8%+3)	
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/2000MΩ		±(0.8%+3)
Capacitance	20nF/200nF/2uF/20uF/200uF/2000uF	±(2.5%+20)	
	20nF/200nF/2uF/20uF/200uF		±(2.5%+20)
Frequency	10Hz/100Hz/1KHz/10kHz/100kHz/1MHz	±(3.0%+15)	
	2kHz/20kHz/200kHz/2000kHz/10MHz		±(0.5%+4)
Inductance	2mH/20mH/200mH/2H/20H		±(2.5%+20)
Celsius	(-20~1000)℃	±(1.0%+3)	±(1.0%+4)
Fahrenheit	(0-1832)℉	±(1.5%+15)	

88B

3½

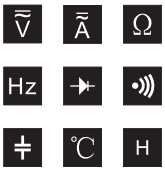




Special Function	88B	88C
Diode test	√	√
Continuity buzzer	√	√
Low battery indication	√	
Backlight	√	√
Data hold	√	√
Auto power off	√	√
Function protection	√	√
Restorable Fuse Protection	√	√
Shock proof protection	√	√
Input impedance	10MΩ	10MΩ
Sampling rate	3 time/s	3 time/s
AC Frequency response	(40-400)Hz	(40-400)Hz
Operation way	Manual range	Manual range
Max.Dispiay	1999	1999
LCD size	65×45mm	65×45mm
Battery	9V(6F22)	9V(6F22)

88C

3½





General Characters

Product color	Case:Black;Holster color:orange
Product Net Weight	Approx:400g
Product dimension	189×97×35mm
Standard Accessories	Test leads; battery; instruction manual ;TP01 temperature probe(88B/C); Testing accessories;
Standard inner packing	Color box
Carton size	465×317×506mm
Standard Quantity Per Carton	30PCS
Standard Gross Weight	Approx:21kg

EMC
LVD CE

Digital Multimeter

88D



3 3/4

Technical data

Basic Function	Range	Basic accuracy 88D	88E
DC Voltage	200mV/2V/20V/200V/1000V	±(0.1%+5)	
	400mV/4V/40V/400V/1000V		±(0.5%+4)
DC Voltage	40mV/400mV		±(0.5%+4)
AC Voltage	2V/20V/200V/750V	±(0.8%+25)	
	4V/40V/400V/750V		±(0.8%+6)
	40mV/400mV		±(1.6%+6)
DC Current	200uA/2mA/20mA/200mA/20A	±(0.5%+4)	
	400uA/4mA/40mA/400mA/20A		±(1.0%+10)
AC Current	2mA/20mA/200mA/20A	±(1.5%+25)	
	400uA/4mA/40mA/400mA/20A		±(1.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ	±(0.4%+5)	
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ		±(0.8%+4)
Capacitance	20nF/200nF/2uF/20uF/200uF/2000uF	±(3.5%+10)	
	40nF/400nF/4uF/40uF/200uF		±(2.5%+8)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz	±(3.0%+150)	
	100Hz/1000Hz/10kHz/100kHz/1MHz/10MHz		±(0.5%+4)
Celsius	(-20~1000)℃	±(0.8%+40)	±(1.0%+4)
Fahrenheit	(0~1832)℉		±(0.8%+5)

Special Function	88D	88E
Diode test	√	√
Continuity buzzer	√	√
Low battery indication	√	√
Relative value measurement		√
Max./Min.Value selection		√
Backlight	√	
Data hold		√
Auto power off	√	√
Bar graph display		√
Function protection	√	√
Restorable Fuse Protection	√	√
Shock proof protection	√	√
Input impedance	10MΩ	10MΩ
Sampling rate	3 time/s	3 time/s
AC Frequency response	(40-400)Hz	(40-400)Hz
Operation way	Manual range	Manual/Auto range
Max.Dispiay	19999	3999
LCD size	65×45mm	65×45mm
Battery	9V(6F22)	9V(6F22)

88E



4 1/2

General Characters

Product color	Case:Black;Holster color:orange
Product Net Weight	Approx:400g
Product dimension	189×97×35mm
Standard Accessories	Test leads; battery; instruction manual ; TP01 temperature probe(with temperature function)
Standard inner packing	Color box
Carton size	465×317×506mm
Standard Quantity Per Carton	30PCS
Standard Gross Weight	Approx: 23kg

EMC
LVD

New Model

VICTOR 890C/890D+2.4-inch IPS COLOR SCREEN LITHIUM BATTERY MULTIMETER

Function	890C	890D+	Accuracy
DC voltage	600mV	600mV	±(0.5%+5)
	6V/60V/600V	6V/60V/600V	±(0.5%+3)
	1000V	1000V	±(1.0%+10)
AC voltage	6V/60V/600V	6V/60V/600V	±(0.8%+5)
	750V	750V	±(1.2%+10)
DC current	/	60μA	±(1.5%+10)
	600μA/60mA/600mA	600μA/6mA/60mA/600mA	±(1.2%+8)
	20A	20A	±(2.0%+5)
AC current	600mA	600mA	±(1.5%+15)
	20A	20A	±(3.0%+10)
Resistor	600Ω	600Ω	±(0.8%+5)
	6kΩ/60kΩ/600kΩ/6MΩ	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%+3)
	60M	60M	±(1.0%+25)
Capacitor	6nF	6nF	±(5.0%+40)
	60nF/600nF/6μF/60μF	60nF/600nF/6μF/60μF	±(3.5%+20)
	600μF/6mF	600μF/6mF	±(5.0%+10)
	60mF/100mF	60mF/100mF	/
Frequency	6Hz~10MHz	/	±(0.5%+10)
	1%~99.9%	/	±(2%+10)
Temperature	-20~1000℃	/	±(1.0%+5)
General Function			
Max display	6000 (3 5/6 digits) automatic polarity display, dual display		
Display	2.4-inch IPS TFT color screen, screen brightness adjustable		
Sampling rate	3 times per second		
Lighting	Yes		
Exceeding the range	Display "OL"		
Low pressure alert	Display the current icon		
Diode	Yes		
Triode	Yes		
NCV	Yes		
LIVE	Yes		
Best value display	Yes		
Data retention	Yes		
On-off beeping	Yes		
Relative value	Yes		
True eflective value	Yes		
Automatic shutdown	Shutdown time can be set.		
Power supply	18650 1800mAh rechargeable lithium battery		
Size	166*81*55mm		
Weight	305g		



890C



890D+

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Digital Multimeter

VC890C+



3 ½

Technical data

Basic function	Range	Accuracy VC890C+	Accuracy VC890D
DCV	200mV/2V/20V/200V	±(0.5%+3)	±(0.5%+3)
	1000V	±(0.8%+10)	±(0.8%+10)
ACV	2V/20V/200V	±(0.8%+5)	±(0.8%+5)
	750V	±(1.2%+10)	±(1.2%+10)
DCA	200uA/2mA/20mA	±(0.8%+10)	±(0.8%+10)
	200mA	±(1.2%+8)	±(1.2%+8)
	20A	±(2.0%+5)	±(2.0%+5)
ACA	20mA		±(1.0%+15)
	200mA	±(2.0%+5)	±(2.0%+5)
	20A	±(3.0%+10)	±(3.0%+10)
Resistance	200Ω	±(0.8%+5)	±(0.8%+5)
	2kΩ/20kΩ/200kΩ/2MΩ	±(0.8%+3)	±(0.8%+3)
	20MΩ	±(1.0%+25)	±(1.0%+25)
Capacitance	6nF	±(5.0%+40)	±(5.0%+40)
	60nF/600nF/6uF/60uF	±(3.5%+20)	±(3.5%+20)
	600uF/6mF/20mF	±(5.0%+10)	±(5.0%+10)
Celsius	(-20~1000)°C (-4~1832)°F	<400°C±(1.0%+5) ≥400°C±(1.5%+15)	

Special Function	VC890C+	VC890D
Diode & Continuity test	√	
Backlight	√	
Continuity buzzer	√	
Low battery indication	√	
Auto power off	√	
Function protection	√	
200mA/20A Protection	√	
TRUE RMS	√	
NCV measurement	√	
Torch function	√	
Shock proof protection	√	
Input impedance	About 10MΩ	
Sampling rate	3 times/s	
Frequency response	(40-1000)Hz	
Operation way	Manual Range	
Max. Display	1999	
LCD size	61 x 36mm	
Battery	2*1.5V AA LR6	

VC890D



3 ½

General Characters	
Product Color	Case: black ; Holster color: orange
Product Net Weight	Approx . 335g (including battery)
Product Dimension	178*86*52mm
Standard Accessories	Test leads、battery、manual、K-type probe
Standard inner packing	Color box
Carton size	435*335*425mm
Standard Quantity /Carton	30Pcs
Standard Gross Weight	Approx .18.2kg

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890H+

890G+

TRUE RMS

Technical data

Basic function	Range	Accuracy VICTOR 890H+	Accuracy VICTOR 890G+
DCV	600mV/6V/60V/600V/1000V	±(0.5%+3)	±(0.5%+3)
ACV	600mV/6V/60V/600V/750V	±(0.8%+5)	
ACV	6V/60V/600V/750V		±(0.8%+5)
DCA	600μA/6000μA/60mA/600mA/10A	±(1.2%+3)	
DCA	60μA/60mA/600mA/10A		±(1.2%+3)
ACA	600μA/6000μA/60mA/600mA/10A	±(1.5%+3)	
	60mA/600mA/10A		±(1.5%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ	±(1.0%+3)	±(1.0%+3)
	6MΩ/60MΩ	±(1.5%+3)	±(1.5%+3)
Capacitance	10nF/100nF/1000nF/10μF/100μF/1000μF	±(4%+5)	±(4%+5)
	10mF/100mF	±(5%+5)	±(5%+5)
Frequency/duty cycle	10Hz/100Hz/1000Hz/10kHz/100kHz/1000kHz	±(1.0%+3)	±(1.0%+3)
	10MHz/1~99%	±(3.0%+3)	±(3.0%+3)
Special function		**890H+**	**890G+**
Temperature	-20℃~1000℃ -4℉~1832℉	√	
NCV test		√	√
Live wire test		√	√
Battery test		√	√
Input terminal prompt		√	√
High voltage prompt		√	√
Diode test		√	√
Continuity alarm		√	√
Low battery		√	√
Backlight		√	√
Flashlight		√	√
Auto power off		√	√
Function protection		√	√
shakeproof protection		√	√
Input impedance		10MΩ	10MΩ
ACV frequency response		10Hz ~ 1kHz	10Hz ~ 1kHz
Operation method		auto range	auto range
Display		6000 counts	6000 counts
Supply		Battery 2*1.5V AA	Battery 2*1.5V AA

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VC97 old model



3 3/4



Technical data

Basic Function	Range	Basic accuracy 97
DC Voltage	400mV/4V/40V/400V/1000V	±(0.5%+4)
AC Voltage	400mV/4V/40V/400V/750V	±(0.8%+10)
DC Current	400uA/4000uA/40mA/400mA/10A	±(1%+10)
AC Current	400uA/4000uA/40mA/400mA/10A	±(1.5%+10)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(0.8%+4)
Capacitance	10nF	±(5.0%+20)
	100nF/1uF/10uF/100uF	±(3.5%+8)
	1mF/10mF/100mF	±(5.0%+10)
Frequency	100/1000/10k/100k/1M/30MHz	±(0.5%+10)
Celsius	(-20~1000)℃	±(1.0%+5)
Fahrenheit	(-4~1832)℉	±(1.0%+5)

General Characters

Product color	Case: black ; Holster color: orange
Product Net Weight	Approx:420g
Product dimension	190×93.5×37mm
Standard Accessories	Test leads; battery; instruction manual ;Tp01 temperature probe(with temperature function)
Standard inner packing	Color box
Standard Quantity Per Carton	40PCS
Carton size	465×317×506mm
Standard Gross Weight	Approx:22kg

Special Function	97
Diode/Transistor	√
Continuity buzzer	√
Low battery indication	√
Data hold	√
Auto power off	√
Analog bar graph	√
Shockproof protection	√
Function protection	1%~99%
Input impedance	10MΩ
Sampling rate	3 time/s
AC Frequency response	(40-400)Hz
Operation way	Auto range
Max.Dispiay	3999
LCD size	70×50mm
Battery	9V

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VC97 3 3/4 Auto Range Digital Multimeter

VC97 2021

- New type holster, streamline design.
- Large LCD makes the reading clearly. Backlight.
- Metallic screen board with stronger antimagnetic and anti-interferential function.
- Full function protection, anti-high voltage circuit design.
- CAT-IV
- True RMS
- NCV



Technical data

Basic Function	Range	Accuracy
DC Voltage	4V/40V/400V	±(0.5%+4)
DC Voltage	1000V	±(1.0%+6)
DC mV	40mV/400mV	± (0.5%+5)
ACmV (True RMS)	40mV/400mV	±(1.0%+6)
AC Voltage (True RMS)	4V/40V/400V	±(0.8%+10)
AC Voltage (True RMS)	750V	±(1.2%+10)
DC Current	400uA/4000uA/40mA/400mA/4A/10A	±(1%+10)
AC Current (True RMS)	400uA/4000uA/40mA/400mA/4A/10A	±(1.5%+10)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(0.8%+4)
Capacitance	6nF	±(5.0%+40)
	60nF/600nF/6uF/60uF/600uF	±(3.5%+20)
	6mF	±(5.0%+10)
	60mF/100mF	±10%
Frequency	10/100/1000/10k/100k/1M/20MHz	±(0.5%+10)
Celsius	-20~1000°C (-4~1832)°F	±(1.0%+5)

Special Function	
NCV	√
Flashlight	√
Diode	√
Transistor	√
Continuity buzzer	√
Low battery indication	√
Data Hold	√
Auto power off	√
Analog bar graph	√
Shockproof protection	√
Function protection	1%~99.%
Input impedance	10MΩ
Auto power off	3 times/s
Analog bar graph	40~400Hz
Shockproof protection	Auto range
Function protection	3999
Input impedance	65×35mm

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VC97 2024



VICTOR VC97 3 5/6 Auto Range Digital Multimeter

Comprehensive Characteristics
•Large LCD makes the reading clearly. Backlight.
•Metallic screen board with stronger antimagnetic and anti-interferential function.
•Full function protection, anti-high voltage circuit design.
•Working environment: (0-40) ℃, relative humidity<75% RH;
•Storage environment: -20 ℃~60 ℃, relative humidity<85% RH;
•True RMS
•NCV

Technical data

Basic Function	VC97	Accuracy
DC Voltage	60mV/600mV	±(0.5%+5)
	6V/60V/600V	±(0.5%+4)
	1000V	±(1.0%+6)
AC Voltage (True RMS)	60mV/600mV	±(1.0%+6)
	6V/60V/600V	±(0.8%+10)
	750V	±(1.2%+10)
DC Current	600uA/6000uA/60mA/600mA/6A/10A	±(1.2%+8)
AC Current	600uA/6000uA/60mA/600mA	±(1.5%+10)
	6A/10A	±(2.0%+5)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(0.8%+4)
Capacitance	10nF	±(5.0%+40)
	100nF/1uF/10uF/100uF/1mF	±(3.5%+20)
	10mF	±(5.0%+10)
	100mF	±(10%+0D)
Frequency/Duty cycle measurement	10Hz~30MHz	±(0.5%+10)
	1%~99.9%	±(2%+10)
Celsius	-20~1000℃(-4~1830)℉	±(1.0%+5)
Special Functions		
Diode	√	
Transistor	√	
Continuity buzzer	√	
Low battery indication	√	
Data Hold	√	
Auto power off	√	
Sampling rate	3 times/s	
Shockproof protection	Auto range	
Function protection	5999	
Volume (size)	(189 x 88 x 56) mm	
Weight	Approximately 385g (including battery)	
Power supply	Four 1.5V AAA batteries	

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970

VICTOR 970 3 5/6 Digital Multimeter



This instrument is a highly reliable automatic 6000 word counting device with a 2.4-inch color screen display, full range overload protection, and patented appearance design. It is a practical electrical measuring instrument with superior performance.
This instrument can be used to measure AC/DC voltage and current, resistance, capacitance, diodes, circuit on/off, frequency, and duty cycle. It has functions such as data hold, automatic/manual range conversion, relative value measurement, battery level indication, and automatic shutdown (APO).

Technical Specifications

Basic Function	Range	Accuracy
DC Voltage	60mV/600mV	±(0.5%+5)
	6V/60V/600V	±(0.5%+4)
	1000V	±(1.0%+6)
AC Voltage	60mV/600mV	±(1.0%+6)
	6V/60V/600V	±(0.8%+10)
	750V	±(1.2%+10)
DC Current	600uA/6000uA	±(1.0%+10)
	60mA/600mA	±(1.2%+8)
AC Current	6A/10A	±(1.2%+10)
	600uA/6000uA/60mA/600mA	±(1.5%+10)
	6A/10A	±(2.0%+5)
Resistance	600Ω	±(0.8%+5)
	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%+4)
	60MΩ	±(1.2%+10)
Capacitance	6nF	±(5.0%+10)
	60nF/600nF	±(2.0%+5)
	6uF/60uF/600uF/6mF/60mF	±(5.0%+5)
Frequency	100Hz~10MHz	±(0.1%+3)

Features	
Display mode	2.4-inch color screen display
Max display	5999 (3 5/6 digits)
Sample Rate	About 3 times per second
OVER RANGE	Display 'OL' at the highest position
Low voltage	have
Diode tube	have
Data hold	have
0n/0ff buzzing	have
Auto shutdown	About 15 minutes after startup
POWER	2000mAh lithium battery Type-C charging
Size	166*83*35mm
Weight	Approximately 303g (including battery and protective cover)

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81B



3 ½

Technical data

Basic Function	Range	Basic accuracy 81B	81D
DC Voltage	200mV/2V/20V/200V/600V	±(0.5%+4)	
	400mV/4V/40V/400V/600V		±(0.5%+4)
AC Voltage	200mV/2V/20V/200V/600V	±(0.8%+6)	
	4V/40V/400V/600V		±(0.8%+6)
DC Current	200uA/2000uA/20mA/200mA/10A	±(1.0%+10)	
	400uA/4000uA/40mA/400mA/10A		±(1.0%+10)
AC Current	200uA/2000uA/20mA/200mA/10A	±(1.5%+10)	
	400uA/4000uA/40mA/400mA/10A		±(1.5%+10)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	±(0.8%+4)	
	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ		±(0.8%+4)
Capacitance	4nF/40nF/400nF/4uF/40uF/100uF/1000uF		±(3.5%+8)
Frequency	1Hz/10Hz/100Hz/1kHz/10kHz/100kHz/30MHz		±(0.5%+10)
Celsius	(-20~1000)℃	±(1.0%+5)	±(1.0%+5)
Fahrenheit	(0~1832)℉	±(1.0%+5)	±(1.0%+5)

Special Function	81B	81D
Diode test&Continuity buzzer	√	√
Low battery indication	√	√
Data hold	√	√
Auto power off	√	√
Function protection	√	√
10A fuse	√	√
Shock proof protection	√	√
Self-resume fuse protection for mA	√	√
Unit symbol display	√	√
Max. Value measurement	√	
Relative value measurement		√
Duty cycle measurement		0.1%~99.9%
Input impedance	10MΩ	10MΩ
Sampling rate	3 time/s	3 time/s
AC Frequency response	(50-200)Hz	(50-200)Hz
Operation way	Auto/Manual range	Auto range
Max.Dispiay	3 ½ (1999)	3 ¾ (3999)
LCD size	57×33mm	57×33mm
Battery	3V(1.5×2)	3V(1.5×2)

81D



3 ¾

General Characters

Product color	Case: black ; Holster color: orange
Product Net Weight	Approx:200g(including battery)
Product dimension	145×80×30mm
Standard Accessories	Test leads; battery; instruction manual ; TP01 K style temperature probe
Standard inner packing	Color box
Standard Quantity Per Carton	60PCS
Carton size	470×325×35mm
Standard Gross Weight	Approx:20kg

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Technical data

Basic Function	Range	VC9801A+ VC9802A+	VC9804A+	VC9805A+	VC9808+
DC Voltage	200mV	±(0.5%+5)			
	2V/20V/200V	±(0.5%+3)			
	1000V	±(1.0%+10)			
AC Voltage	200mV	*		±(1.0%+5)	
	2V/20V/200V	±(0.8%+5)			
	750V	*		±(1.2%+10)	
	1000V	±(1.2%+10)		*	
DC Current	200uA/2mA/20mA/200mA	±(1.2%+8)			
	2A	±(1.5%+10)	*		
	20A	±(2.0%+5)			
AC Current	200uA/2mA/20mA	*		±(1.5%+15)	
	200mA	±(1.5%+15)			
	2A	±(2.0%+5)	*		
	20A	±(3.0%+10)			
Resistance	200Ω	±(0.8%+5)			
	2kΩ/20kΩ/200kΩ/2MΩ	±(0.8%+3)			
	20MΩ	±(1.0%+25)			
	200MΩ	±(5.0%+30)			
Capacitance	2nF	*		±(3.5%+20)	*
	20nF/200nF/20uF/200uF	*		±(3.5%+20)	
	2mF/20mF	*		±(5.0%+10)	*
	100mF	*		Unspecified	
	6nF	±(5.0%+40)		*	
	60nF/600nF/6uF/60uF	±(3.5%+20)		*	
	600uF/6mF	±(5.0%+10)		*	
	20mF	±(5.0%+40)		*	
Frequency	10Hz	*	±(1.0%+10)		
	100Hz	*			
	1kHz	*			
	10kHz	*			
	100kHz	*			
	10MHz	*	±(1.0%+10)	*	
	20MHz	*	±(1.0%+10)		
Temperature	(-20~1000)°C	*	<400C +(1.0%+5)≥400°C +(1.5%+15)		
	(-4~1832)°F	*	<752°F +(1.0%+5)≥752°F +(1.5%+ 15)		
Inductance	2mH/20mH/200mH	*		±(2.5%+30)	
	2mH/20mH	*		±(5.0%+20)	

Special Function			
Max Display	1999 (3) ½ Bit	Dual display	Only 9808+
On/off buzzing	√	Progress bar	Only 9808+
Sound and light alarm	√	Low voltage prompt	√
Data retention	√	Over range prompt	Display "OL"
Backlight display	√	Sampling rate	About 3 times/second
Relative value	√	NCV/LIVE	9801A+/02A+/04A+/08+
Flashlight lighting	√	Working conditions	(0-40)℃<75% RH
Max/min	9804A+/9805A+/9808+	Storage conditions	(-20~60) ℃<85% RH
Automatic shutdown	√	source	Four AAA batteries
Diode/transistor	√	size	189 * 88 * 56mm
T-RMS	√	weight	01A+/02A+/04A+: 383g 05A+/08+: 406g

VC9801A+



VC9804A+



VC9805A+



√

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VC980+



Basic Function	Range	Accuracy		
Model		VC980+	VC9806+	VC9807A+
DC Voltage	200mV/2V/20V/200V	±(0.5%+5)		±(0.1%+ 5)
	1000V	±(1.0%+10)		±(0.2%+5)
AC Voltage	200mV	±(1.0%+25)		
	2V/20V/200V	±(0.8%+25)		
	750V	±(1.2%+50)		
DC Current	200uA/2000uA /20mA	±(0.5%+4)		
	200mA	±(0.8%+6)		
	2A	±(2.0%+15)	*	
	20A	±(2.0%+15)		
AC Current	20mA/200mA	±(1.5%+15)		
	20A	±(2.5%+35)		
Resistance	200Ω	±(0.3%+10)	±(0.4%+10)	
	2kΩ/20kΩ/200kΩ	±(0.3%+5)	±(0.4%+5)	
	2MΩ	±(1.2%+25)		
	20MΩ/200MΩ	±(5.0%+45)		
Capacitance	20nF	±(5.0%+50)		
	200nF/2uF/20uF/200uF/2mF	±(4.0%+50)		
	20mF/200mF	Unspecified		
Frequency	200Hz/~2MHz	±(1.0%+3)		
	> 20.000MHz	Unspecified		
	Duty cycle	5.0% ~ 95.0%(<10KHz@3Vpp)		

VC9806+



AC voltage	Frequency range	Resolution	980+
200.00mV	40Hz ~ 400Hz	0.01mV	±(1.5%+25)
	401Hz ~ 20kHz		±(2.5%+60)
2.0000V	40Hz ~ 400Hz	0.0001V	±(0.8%+25)
	401Hz ~ 20kHz		±(2.5%+60)
20.000V	40Hz ~ 400Hz	0.001V	±(0.8%+25)
	401Hz ~ 20kHz		±(2.5%+60)
200.00V	40Hz ~ 400Hz	0.01V	±(0.8%+25)
	401Hz ~ 5kHz		±(1.5%+25)
750.0V	40Hz ~ 200Hz	0.1V	±(1.0%+25)
	201Hz ~ 1kHz		±(1.5%+25)

Note: The VC980+instrument extends frequency response and can accurately measure the effective values of various voltage waveforms

VC9807A+



Conductivity measurement(only VC9806+/9807A+)

Range	Resolution	Display Range	Open circuit voltage
(0.01 ~ 100)nS	0.01nS	±(1.0%+30)	-1.02V

General characteristics			
Max Display	19999 (4) ½ Bit	True effective value	Only 980+
On/off buzzing	√	Low voltage prompt	√
Sound and light alarm	√	Over range	Display "OL"
Data retention	√	Sampling rate	2.8 times /second
Backlight	√	Hz% mode key	Only 9806+/9807A+
Relative value	√	work	(0-40)°C<75% RH
Low pass filtering	√	storage	(-20~60)°C<85% RH
Max/min	Only 980+	source	Four AAA batteries
Automatic shutdown	about 15 minutes	size	189*88*56mm
Diode/transistor	√	weight	400g

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Digital Multimeter

VICTOR®

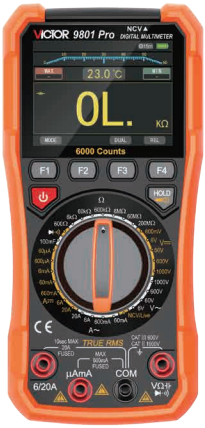
New Model

VICTOR 9801Pro Color screen
6000 counts display
Rechargable lithrum battery

Function	9801 Pro	9804Pro	Accuracy
DC voltage	600mV	600mV	±(0.5%+5)
	6V/60V/600V	6V/60V/600V	±(0.5%+3)
	1000V	1000V	±1.0%+10)
AC voltage	6V/60V/600V	6V/60V/600V	±(0.8%+5)
	1000V	1000V	±(1.2%+10)
DC current	60μA	60μA	±(1.5%+10)
	600μA/6mA/60mA/600mA	600μA/6mA/60mA/600mA	±(1.2%+8)
	6A	/	±(1.5%+10)
	20A	20A	±(2.0%+5)
AC current	60mA/600mA	60mA/600mA	±(1.5%+15)
	6A	/	±(2.0%+5)
	20A	20A	±(3.0%+10)
Resistor	600Ω	600Ω	±(0.8%+5)
	6kΩ/60kΩ/600kΩ/6MΩ	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%+3)
	60MΩ	60MΩ	±(1.0%+25)
	200MΩ	200MΩ	±(5.0%+30)
Capacitor	6nF	6nF	±(5.0%+40)
	60nF/600nF/6μF/60μF	60nF/600nF/6μF/60μF	±(3.5%+20)
	600μF/6mF	600μF/6mF	±(5.0%+10)
	60mF/100mF	60mF/100mF	Not specified
Frequency	/	6Hz~20MHz	±(0.5%+10)
Temperature	/	-20~1000 C	±(1.0%+5)

General Function	
Display	5999 (3 5/6) indicates dual display
Sampling rate	3 times per second
Diode	Yes
On-off beeping	Yes
Data retention	Yes
Lighting	Yes
Optimum value	Maximum/Minimum
Simulated pointer	Yes
NCV/LIVE	Yes
Automatic shutdown	No operation for approximately 15 minutes
True effective value	Yes
Battery power	Display the battery icon
Display screen	2.8-inch IPS TFT color screen
Power supply method	Type-C interface 1800mAh lithium battery
Size	181*87*54mm
Weight	346g

9801 Pro



9804 Pro



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LVD CE

Digital Multimeter

New Model

9820



Technical Specifications

Basic Function	9820	9825	Accuracy
DC Voltage	600mV	600mV	±(0.5%+5)
	6V/60V/600V/1000V	6V/60V/600V/1000V	±(0.5%+4)
	2000V	2500V(use high-voltage test socket)	±(1.0%+6)
AC Voltage	6V/60V/600V/750V	6V/60V/600V/750V	±(0.8%+10)
	2000V	2000V	±(1.2%+10)
DC Current	600uA/6000uA	600uA/6000uA	±(1.0%+10)
	60mA/600mA	60mA/600mA	±(1.2%+10)
AC Current	600uA/6000uA/60mA/600mA	600uA/6000uA/60mA/600mA	±(1.5%+10)
Resistance	600Ω	600Ω	±(0.8%+5)
	6kΩ/60kΩ/600kΩ/6MΩ	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%+4)
	60MΩ	60MΩ	±(1.2%+10)
Capacitance	10nF	10nF	±(5.0%+40)
	100nF/1uF/10uF/100uF	100nF/1uF/10uF/100uF	±(3.5%+20)
	1mF	1mF	±(5.0%+10)
	20mF	20mF	±(10%+0d)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	±(0.5%+10)
Temperature	(-20~1000)°C /(-4-1832)°F	(-20~1000)°C	±(1.5%+15)

9825



Features	
Display method	LCD display
Operation	Auto Range
Max Display	5999 (3 5/6 digits)
Diode	√
Data retention	√
Overload indication	OL
Low voltage prompt	√
On/off buzzing	√
Flashlight	√
NCV	√
Relative value	√
Backlight display	√
work environment	0~40 °C < 75% RH
Sampling rate	3 times/second
Automatic shutdown	√
Unit symbol	√
Input impedance	10MΩ
source	4 AAA batteries
Product size	186*92*52mm
Product weight	395g

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2003A/2004A/2006A

Two-channel Function/ Arbitrary Waveform Generator

Key Features

- 3.5-inch 480×320TFT LCD with clear graphic interface
- With RS232 interface, USB Device, USB Host interface supporting USB flash disk storage (USB Host Optional)

Technical Specifications

Frequency Characteristics			
MODEL	**2003A**	**2004A**	**2006A**
Sine	1μHz ~ 25MHz	1μHz ~ 40MHz	1μHz ~ 60MHz
Square	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Triangle	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Pulse	100μHz ~ 6MHz	100μHz ~ 6MHz	100μHz ~ 6MHz
Arbitrary	1μHz ~ 6MHz	1μHz ~ 6MHz	1μHz ~ 6MHz
Noise (-3dB)	7MHz Bandwidth		
Frequency Resolution	1μHz		
Frequency Accuracy	±5ppm		
Frequency Stability	±1ppm/3hour		

Frequency Characteristics		
Waveform Types	Sine, square, triangle, pulse, noise and arbitrary waves (including DC). There are 32 kinds of arbitrary waves and 50 kinds of user-defined waves.	
Waveform Length	8192 points	
Waveform Sampling Rate	200 MSa/s	
Waveform Vertical Resolution	13 bits	
Sine Wave Characteristics		
Sine Wave	Harmonic Distortion	≥45dBc(<1MHz);≥40dBc(1MHz~20MHz)
	Total Harmonic Distortion	<0.8%(20Hz ~ 20kHz, 0dBm)
Square Wave Signal Characteristics		
Square Wave	Rise/Fall <20ns	
	Overshoot <5%	
	Duty Cycle freq<100kHz: 1%~99%;100kHz≤freq<5MHz: 20% ~ 80%; 5MHz≤freq: 40% ~ 60%(0.1% resolution)	
Pulse Wave Characteristics		
Pulse Wave	Pulse Width	Min 20ns; 1ns resolution
	Edge Transition Time	Min 20ns;
	Overshoot	<5%
	Jitter	6ns+0.1% Period
Ramp Wave	Linearity Degree	≥98%(0.01Hz~10kHz)
	Symmetry	0.0 ~ 100.0%(resolution 0.1%)

Output Characteristics			
Amplitude			
Amplitude Range	freq＜10MHz	10MHz≤freq＜30MHz	30MHz≤freq
	2mVpp ~ 20Vpp	2mVpp ~10Vpp	2mVpp ~5Vpp
Amplitude Resolution	1mV		
Amplitude Stability	±1% set value±1mVpp(1kHz Sine,0 offset,>10mVpp)		
Amplitude Flatness (relative to 1K Sine, 1 Vpp)	±0.4dB <10MHz; ±1.0dB ≥10MHz。		
Output Impedance	50Ω±10%(Typical)		
Protection	All the signal output terminal can be shorted within 60s		
DC Offset			
	Output Amplitude>0.1V	2mV<Output Amplitude≤0.1V	
Offset Adjusting Range	±10Vpk,ac + dc	±0.250Vpk,ac + dc	
Offset Resolution	1mV		

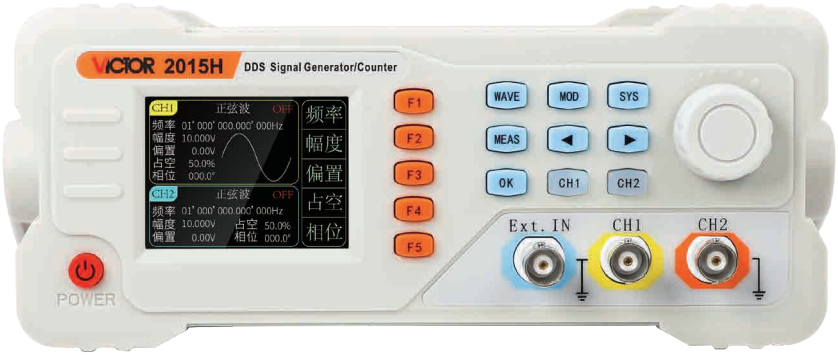
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External Measurement Function			
Frequency Meter	Frequency measurement	1Hz ~ 100MHz	
	range		
	Measurement accuracy	Gate time continuously adjusted between0.01s~10s	
Counter Function	Counting region	0 ~ 4294967295	
	Control mode	Manual operation	
Input Signal Voltage Range	2Vpp~20Vpp		
Coupled Mode	AC or DC		
Pulse Width Measurement	1ns (resolution), 20s (MAX measuring time)		
Period Measurement	1ns (resolution), 20s (MAX measuring time)		
SYNC Output		**Trigger Input**	
Output Channel	CH1 or CH2, default CH1	**Signal Range**	2Vpp~20Vpp
Level	TTL	**Coupling**	AC or DC
Impedance	50Ω	**Pulse Width**	>100ns
Rise/Fall Time	< 25ns	**Reaction Time**	<500ns（Burst）
Maximum Frequency	25MHz		<10μs（Sweep）
Phase characteristics		**Modulation Input**	
Phase Adjusting Range	0~359.9°	**Impedance**	1MΩ
Phase Resolution	0.1°	**Signal range**	±2.5V ac+dc
AM Modulation		**FM Modulation**	
Output Channel	CH1 or CH2, default CH1	**Output Channel**	CH1 or CH2, default CH1
Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)	**Carrier Wave**	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	**Source**	Internal/External
Modulation Wave	Sine, square, triangle and ramp	**Modulation Wave**	Sine, square, triangle and ramp
Modulation Frequency	2mHz~20kHz	**Modulation Frequency**	2mHz~20kHz
Modulation Depth	0%~120%	**Frequency Offset**	0~Maximum carrier frequency
PM Modulation		**ASK Modulation**	
Output Channel	CH1 or CH2, default CH1	**Output Channel**	CH1 or CH2, default CH1
Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)	**Carrier Wave**	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	**Source**	Internal/External
Modulation Wave	Sine, square, triangle and ramp	**Modulation Wave**	Square wave of 50% duty ratio
Modulation Frequency	2mHz~20kHz	**Keying Frequency**	2mHz~1MHz
Phase Offset	0°~ 360°	**Modulation Amplitude**	0~Carrier Amplitude
FSK Modulation		**PSK Modulation**	
Output Channel	CH1 or CH2, default CH1	**Output Channel**	CH1 or CH2, default CH1
Carrier Wave	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)	**Carrier Wave**	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	**Source**	Internal/External
Modulation Wave	Square wave of 50% duty ratio	**Modulation Wave**	Square wave of 50% duty ratio
Keying Frequency	2mHz~1MHz	**Keying Frequency**	2mHz~1MHz
Hop Frequency	Carrier frequency range	**Modulation Phase**	0°~ 360°
Frequency Sweep		**Burst Characteristics**	
Output Channel	CH1 or CH2, default CH1	**Output Channel**	CH1 or CH2, default CH1
Types	Linearity/Logarithm	**Carrier Wave**	Sine, square, ramp, pulse and arbitrary waveforms (excluding DC)
Sweep Frequency Time	1ms ~ 500.000s		
Start/Stop Frequency	1μHz~Maximum carrier frequency	**Pulse Count**	1~65535 or infinite, gated
Sweep Direction	Forward, Backward	**Start/Stop Phase**	0~360°
Trigger Source	Manual operating, internal, external	**Internal Period**	1μs~500s
		Gating Source	External
		Trigger Source	Internal, external, manual operating

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Function Generator

2015H/2040H/2060H



Technical data

Model	2015H	2040H	2060H
Sine wave	1μHz~ 20MHz	1μHz ~ 40MHz	1μHz ~ 60MHz
Square wave	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Triangle wave	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Pulse wave	100μHz ~ 6MHz	100μHz ~ 6MHz	100μHz ~ 6MHz
Arbitrary	1μHz ~ 6MHz	1μHz ~ 6MHz	1μHz ~ 6MHz
Frequency resolution	1uHz		
Frequency accuracy	±20ppm		
Frequency stability	±1ppm/3hours		
Waveform characteristics			
Waveform type	Sine、Square、 triangular wave, pulse,noise, arbitrary wave (including DC).		
Wave length	8192 points		
Waveform sampling rate	200MSa/s		
Waveform vertical resolution	13-bits		
Sine wave characteristics			
Sine wave	Harmonic Suppression	≥45dBc(<1MHz); ≥40dBc(1MHz~20MHz)	
	Total harmonic distortion	<0.8%(20Hz~20kHz,0dBm)	
Square wave signal characteristics			
Square wave	Rise/Fall time	<20ns	
	Overshoot	<5%	
	Duty cycle range	Frequency < 100 KHZ: 1% ~ 99%;	
		100kHz≤ frequency <5MHz: 20% ~ 80%;	
		5MHz≤ frequency: 40% ~ 60%(0.1% resolution)	
Pulse wave characteristics			
Pulse wave	Pulse width	Minimum 20ns; 1 ns resolution.	
	Edge jumping time	Minimum 20ns	
	Overshoot	<5%..	
	Shaking	6ns+0.1% period cycle	
Sawtooth wave characteristics			
Sawtooth wave	Linearity	≥98%(0.01Hz~10kHz)	
	Symmetry	0.0 ~ 100.0%(resolution 0.1%)	

Trigger Input	
Signal Range	2Vpp~20Vpp
Coupling	AC or DC
Pulse Width	>100ns
Reaction Time	<500ns(Burst)
	<10μs(Sweep)
Modulation Input	
Impedance	1MΩ
Signal Range	±2.5V ac+dc

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Output characteristics

Amplitude	2015H	2040H	2060H
Amplitude range	Frequency <10MHz	10MHz ≤ Frequency ≤ 30MHz	30MHz ≤ Frequency
	2mVpp~20Vpp	2mVpp~10Vpp	2mVpp~5Vpp
Amplitude resolution	1mV		
Amplitude accuracy	1% +2mVpp of set value (1kHz sine wave, 0 offset, >10mVpp)		
Amplitude flatness (Relative to 1k sine wave, 1Vpp)	±0.4dB <10MHz ; ±1.0dB ≥10MHz		
Output impedance	50Ω±10% (typical)		
Protection	All signal outputs can work within 60 when the load is short-circuited.		
Offset			
Output range	Output amplitude > 0.1V	2mV < Output amplitude ≤ 0.1V	
	±10Vpk, ac + dc	±0.250Vpk, ac + dc	
Offset resolution	1mV		
Phase characteristics			
Phase adjustment range	0~359.9°		
Phase resolution	0.1°		
External measurement function			
Frequency meter function	Frequency measurement range	1Hz~100MHz	
	Gate time	0.01S~10s continuous adjustment	
Counter function	Counting range	0-4294967295	
	Counting method	Manually	
Input signal voltage range	2Vpp~20Vpp		
Coupling	DC or AC		
Pulse width measurement	1ns resolution, maximum measurable 20s		
Period measurement	1ns us resolution, maximum measurable 20s		

AM Modulation	
Output channel	CH1 or CH2
Signal Carrier	Sine, square,sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External VCO(external is optional)
Modulation Wave	Sine, square, triangle and ramp
Modulation Frequency	2mHz~20kHz
Modulation Depth	0%~120%

FM Modulation	
Output Channel	CH1 or CH2
Carrier Wave	Sine, square,sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External(external is optional)
Modulation Wave	Sine, square, triangle and ramp
Modulation Frequency	2mHz~20kHz
Frequency Offset	0~Maximum carrier frequency

PM Modulation	
Output Channel	CH1 or CH2
Carrier Wave	Sine, square,sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External(external is optional)
Modulation Wave	Sine, square, triangle and ramp
Modulation Frequency	2mHz~20kHz
Phase Offset	0°~ 360°

ASK Modulation	
Output Channel	CH1 or CH2
Carrier Wave	Sine, square,sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External
Modulation Wave	Square wave of 50% duty ratio
Keying Frequency	2mHz~1MHz
Modulation Amplitude	0~Carrier Amplitude

FSK Modulation	
Output Channel	CH1 or CH2
Carrier Wave	Sine, square,sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External
Modulation Wave	Square wave of 50% duty ratio
Keying Frequency	2mHz~1MHz
Hop Frequency	Carrier frequency range

PSK Modulation	
Output Channel	CH1 or CH2
Carrier Wave	Sine, square,sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External
Modulation Wave	Square wave of 50% duty ratio
Keying Frequency	2mHz~1MHz
Modulation Phase	0°~ 360°

Frequency Sweep	
Output Channel	CH1 or CH2
Types	Linearity/Logarithm
Sweep Frequency Time	1ms ~ 999.999s
Start/Stop Frequency	Arbitrary set
Sweep Direction	Forward,Reverse.Backward
Trigger Source	Manual operating, internal, external

Frequency Sweep	
Output Channel	CH1 or CH2
Carrier Wave	Sine, square,sawtooth, pulse, noise and arbitrary waveforms (excluding DC)
Pulse Count	1~1048575 or infinite, gated
Start/Stop Phase	0~360°
Internal Period	1μs~500s
Gating Source	External
Trigger Source	Internal, external, manual operating

General Technical Specifications

Power Supply	
Supply Voltage	AC 110~240V, 50~60Hz
Power Consumption	<15W
Display	
Types	2.4-inch TFT LCD screen
Resolution	320×240
Color	16M color
Environment	
Temperature Range	Operation: 10℃~+40℃ Non-operation: -10℃~+60℃
Cooling Methods	Natural cooling
Humidity Range	Below +35℃: ≤90% relative humidity,+B14035℃ ~ +40℃: ≤60% relative humidity
Interface	USB Device

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Analog Multimeter

VICTOR®

3010



3021



7244



Technical data

Model		3010	3021	7244
DC V	2.5V/10V/25V/50V/250V/1000V	±3%		
	0.1V/0.5V/2.5V/10V/50V/250V/1000V		±3%	
	0.1V/0.5V/2.5V/10V/50V/250V/500V			±3%
AC V	10V/50V/250V/1000V	±4%	±4%	
	10V/50V/250V/500V			±4%
DC A	50uA/0.5mA/5mA/50mA/500mA/10A	±3%		
	50uA/2.5mA/25mA/0.25A/10A		±3%	
	50uA/2.5mA/25mA/250mA/10A			±3%
Resistanc	X1/X10/X100/X1k/X10kΩ	±3%		±3%
	X1/X10/X100/X1k/X100kΩ		±3%	
Special functions				
Dry cell measurement			√	
Diode test			√	√
Triode test		√	√	
Audio level measurement dB		√	√	√
On off test		√	√	√
line protection		√	√	√
Input impedance		(9~20)kΩ	(9~20)kΩ	(9~20)kΩ
Basic parameters				
Power Supply		AAA、9V	AAA	AAA、9V
Body color		Black+orange		
Body weight		About 225g (including battery)		
Body size		160X101.5X40mm		
Standard accessories		Test probe/manual		
Standard inner packaging		Color box		

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Digital Capacitance Multimeter

6243



3 1/2

Technical data

Inductance(L) Range	6243 Accuracy	Resolution	Capacitance/Resistance/Inductance Measuring frequency
2mH	±(2.0%+5d)	1uH	Approx:200Hz
20mH		10uH	
200mH		100uH	
2H	±(5.0%+5d)	1mH	
20H	±(5.0%+15d)	10mH	
2nF	±(1.0%+5d)	1pF	Approx:200Hz
200nF		100pF	
2uF	±(2.0%+5d)	1 nF	
20uF		10 nF	Approx:16Hz
200uF		100 nF	
1000uF	±(5.0%+25d)	1uF	Approx:8Hz

General Characters

Product Net Weight	380g (including battery)
Product dimension	189×97×35mm
Carton size	465×317×506mm
Standard Quantity Per Carton	30PCS

6013



3 1/2

Technical data

Capacitance（C）			6013 Capacitance（C）	
Range	Resolution	Max.displaying in the ranges	Measuring frequency	Accuracy
200pF	0.1pF	199.9 pF	800Hz	±(0.5%+7)
2nF	1pF	1.999nF		
20nF	10pF	19.99nF		
200nF	100pF	199.9nF		
2uF	1000pF	1.999uF		
20uF	0.01uF	19.99uF	80Hz	
200uF	0.1uF	199.9uF	8Hz	
2000uF	1uF	1999uF	8Hz	±(2%+5)
20000uF	10uF	1999(×10)uF	8Hz	±(3%+10)

Special Function

Low battery indication	√
Function protection	√
Zero manual	√
Overload protection	√
Backlight	√
Max.display	1999（3 1/2LCD display）
Sampling rate	(0~5) time/s
Environment/Relative Humidity	0℃~40℃/Relative Humidity<80%
Over-range display	Max display “1”
Size	189×97×35mm
Weight	320g
Power	9V (6F22)

6013B



Range VICTOR 6013B	Accuracy	Resolution
300Ω/3KΩ/30KΩ/300KΩ	±(1.0%+5d)	0.1Ω
3MΩ/30MΩ	±(2.0%+5d)	
3nF/30nF/300nF/3μF/30μF/300μF	±(3.0%+5d)	0.1nF
3mF/30mF	±(5.0%+5d)	

General Features	6013B
Low Battery Indication	✓
Auto Power Off	✓
Data Hold	✓
Max. Display	2999
Sampling Rate	3 times/s
Operation Temperature /Humidity	0℃~40℃; Humidity <80%
Over Range Indication	LCD “0L”
Product Size	175×34×18.5mm
Product Weight	68.5g

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LCR Meter

Technical data

Handheld LCR meter	4080	4082
Testing frequency	100Hz, 120Hz, 1KHz, 10KHz, 40KHz, 100KHz	100Hz-100KHz adjustable, step from 1Hz
Basic accuracy	0.3%	0.2%
Electrolytic capacitor mode	√	√
DCR mode	×	√
Bias Voltage	×	0-500mV can be adjustable, step from 1mV
Electric level	0.6Vrms	0-0.7V adjustable
Screen	2.8 inches TFT LCD	
Digits display	Main parameter: 5 digits; auxiliary parameter: 5 digits	
Measuring parameters		
Main parameter	L/C/R/Z	
Auxiliary parameter	X/D/Q/ESR	X/D/Q/θ/ESR
Measuring Range	(L) 0-2000H	
Measuring Range	(C) 0-20mF	
Measuring Range	(R) 0-20MΩ	
Measuring speed	1 time/s (slow), 2 times/s (moderate), 4 times/s (fast)	
Calibration function	Open circuit calibration, short circuit calibration	
Filtering function	Limit scope 1%~50% can be set; 1%, 5%, 10%, 20% are the fix points	
errors measurement	is use for comparing the percent errors between components and nominal value, meanwhile display	
others	Backlight luminance can be adjustable; USB device and auto power off can be set	
Standard Accessories	Mini-USB cable; power adapter; short-circuit plate; Kelvin test fixture Lithium battery with large capacity	

4080/4082



4091A/4091B/4091C



4090A/4090B/4090C

Technical data

LCR meter	4090A	4090B	4090C	4091A	4091B	4091C
Testing frequency	10 points (100, 120, 200, 400, 800, 1K, 2K, 4K, 8K, 10K)	12 points (100, 120, 200, 400, 800, 1K, 2K, 4K, 8K, 10K, 15K, 20K)	16 points (100, 120, 200, 400, 800, 1K, 2K, 4K, 8K, 10K, 15K, 20K, 40K, 50K, 80K, 100K)	10~10KHz continuous adjust, stepping: 1Hz	10~20KHz continuous adjust, stepping: 1Hz	10~100KHz continuous adjust, stepping: 1Hz
Screen	3.5 inches TFT LCD					
Digits display	Main parameter: 5 digits; auxiliary parameter: 5 digits					
Measuring parameters	Main parameter: L/C/R/Z; auxiliary parameter: X/D/Q/θ/ESR					
Measuring Range (L)	0.01 μH - 9999H					
Measuring Range (C)	0.01pF - 99.999mF					
Measuring Range (R)	0.0001Ω - 99.999MΩ					
Basic accuracy	0.2%					
Measuring speed	2 times/s (slow), 4 times/s (moderate), 8 times/s (fast)					
Bias Voltage	0-1500mV can be adjustable, stepping: 1mV					
Calibration function	Open circuit calibration, short circuit calibration					
Filtering function	Limit scope -50%~+50% can be set; 1%, 5%, 10%, 20% are the fix points					
Interface	Standard accessories RS232(or 485), USB Device, Handle, optional accessories GPIB, USB host					
Others	DCR and electrolytic capacitor measuring mode are available; Backlight luminance can be adjustable, Chinese or English mode are optional					

EMC LVD CE

LCR Meter

4092A



4092B



4092C



4092D



4092E



Main Features

10Hz ~ 1MHz of test frequency
6 and a half digits of measurement resolution
Internal ± 2V of DC bias voltage
0.05% basic measurement accuracy
automatic, manual, external trigger and bus trigger measurement
dual measurement display
measurement in absolute form or reference value based deviation measurement
accurate four-wire fixtures
categories of components
up to ± 60V of DC external bias voltage
internal memory
7-inch LCD color display
visual user interface, comprehensive test functions
providing RS232, HANDLER, GPIB, LAN, and USB Interfaces

Technical indicators

Model	A Type	B Type	C Type	D Type	E Type
Frequency Range	10Hz～100kHz	10Hz～200kHz	10Hz～300kHz	10Hz～500kHz	10Hz～1MHz
Frequency Resolutio、Accuracy	Frequency Resolutio:1mHz, Frequency Accuracy:0.01%				
Measurable parameters	Cp-D/Q/G/Rp, Cs-D/Q/Rs, Lp-D/Q/G/Rp, Ls-D/Q/Rs, Rs-Xs, Z-θ, Y-θ, G-B				
Measurement time (Fast / medium speed)	200ms/500ms @ 10Hz				
	100ms/500ms @ 50Hz				
	20ms/200ms @ ≥100Hz				
Custom time range	100ms/2000ms @ 10Hz				
	20ms/2000ms @ 50Hz				
	20ms/2000ms @ ≥100Hz				
	5ms/2000ms @ ≥1kHz				
Test signal level (1mVrms stepping)	10mVrms to 2Vrms				
	100μArms to 20mArms				
Constant voltage level	10mVrms-1Vrms				
Constant current level	100μArms-10mArms				
DC bias capability	Internal -2V to +2V voltage bias External bias input（within ±60V）				
Internal resistance of signal source	30 Ohm, 100 Ohm are optional				
Basic accuracy	0.05%				
Display resolution	6 digits and a half				
Comparator	9 groups of qualification level, 1 group of unqualification level, 1 group of auxiliary level				
Correction	Self correction, open/short circuit frequency sweep, 100 sets of specified frequency points				
List sweep	List sweep test for 100 points				
Storing device	Internal/USB memory				
Remote control	GPIB、LAN、RS232、USB、Handler				

EMC
LVD CE

Clamp Multimeter



6019D



6019E



616A



616B

FUNCTION	6019D	6019E	Accuracy	616A	616B	Accuracy
DCV	600mV/6V/60V /600V	600mV/6V/60V /600V	± (0.5%+3)	600mV	600mV	± (0.8%+3)
				6V/60V	6V/60V	± (0.5%+3)
	1000V	1000V	± (0.8%+10)	600V	600V	± (1.0%+5)
ACV	6V/60V/ 600V	6V/60V/ 600V	± (0.8%+3)	600mV/6V	600mV/6V	± (1.2%+10)
				60V	60V	± (0.8%+5)
	750V	750V	± (1.2%+10)	600V	600V	± (1.2%+5)
DCA	/	6A/60A	± (2.5%+30)	/	60A	± (2.5%+5)
				/	600A	± (2.5%+10)
ACA	/	600mA	± (2.5%+20)	6A/60A	60A	± (2.5%+8)
	6A/60A/200A	6A/60A	± (2.0%+30)	600A	600A	± (2.5%+10)
RESISTENCE	600Ω	600Ω	± (0.8%+5)	600Ω/6kΩ/60kΩ/600kΩ	600Ω/6kΩ/60kΩ/600kΩ	± (0.8%+3)
	6kΩ/60kΩ 600kΩ/6MΩ	6kΩ/60kΩ 600kΩ/6MΩ	± (0.8%+3)	6MΩ	6MΩ	± (1.2%+3)
	60MΩ	60MΩ	± (2.5%+15)	60MΩ	60MΩ	± (2.5%+5)
CAPACITANCE	6nF	6nF	± (4.0%+50)	6nF/60nF/ 600nF/6uF	6nF/60nF/ 600nF/6uF	± (3.0%+10)
	60nF/600nF/6uF 60uF/600uF	60nF/600nF/6uF 60uF/600uF	± (4.0%+20)	60uF/600uF 6mF/60mF	60uF/600uF 6mF/60mF	± (5.0%+5)
	6mF/60mF	6mF/60mF	± (5.0%+20)			
FREQUENCY	/	6Hz~1MHz	± (0.5%+5)	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/10MHz	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/10MHz	± (0.3%+3)
TEMPERATURE	-20°C~1000°C (-4-1832)°F	-20°C~1000 (-4-1832)	± (2.0%+5)	-20°C~1000°C (-4-1832)°F	-20°C~1000°C (-4-1832)°F	± (1.0%+5)

Display method	LCD display	LCD display
Maximum Display	5999 count	5999 count
Diode	√	√
Data retention	√	√
NCV/LIVE	√	√
ZERO	√	616B
Low voltaye prompt	√	√
Type-C charging	√	/
Flashlight lighting	/	√
On/off buzzing	√	√
Work environment	(0-40)°C <75%	(0-40)°C <75%
Storage environment	(-10~50)°C<80%	(-20~60)°C<80%
Automatic shutdown	√	√
Over range display	Display OL	Display OL
Jaws open	32mm	32mm
Frequency response	50Hz~60Hz	50Hz~60Hz
Batterytype	3.7V lithium battery	AAA*3 battery
Size	170*64*26mm	192*73*28mm
Weight	146g	225g

EMC
LVD CE

Clamp Multimeter



606+



606A+



606B+



606C+

FUNCTION	606+	606A+	606B+	606C+	Accuracy
DCV	200mV/2V/20V	600mV/6V/60V	600mV/6V/60V	600mV/6V/60V	± (0.5%+7)
	200V	600V	600V	600V	± (1.0%+ 20)
	600V	/	/	/	± (1.2%+ 20)
ACV	2V/20V	6V/60V	6V/60V	6V/60V	± (0.8%+ 10)
	200V	600V	600V	600V	± (1.2%+ 25)
	600V	/	/	/	± (1.5%+25)
LOW INPEDANCE ACV	2V/20V	6V/60V	6V/60V	6V/60V	± (0.8%+ 10)
	200V	300V	300V	/	± (1.2%+25)
	300V	/	/	/	± (1.5%+ 25)
	/	/	/	300V	± (1.0%+12)
ACA	2A	6A	6A	/	± (4.0%+ 50)
	20A	60A	60A	/	± (4.0%+ 35)
	200A/600A	600A	600A	/	± (4.0%+15)
DCA	/	/	/	60A/600A	± (4.0%+10)
	/	/	/	60A/600A	± (4.0%+10)
RESISTENCE	200Ω/2kΩ/20kΩ /200kΩ/2MΩ	600Ω/6kΩ/60kΩ /600kΩ/6MΩ	600Ω/6kΩ/60kΩ /600kΩ/6MΩ	600Ω/6kΩ/60kΩ /600kΩ/6MΩ	± (1.0%+ 5)
	20MΩ	20MΩ	20MΩ	20MΩ	± (1.5%+15)
	/	60MΩ	60MΩ	60MΩ	± (2.5%+20)
CAPACITANCE	/	6nF	6nF	6nF	± (5.0%+40)
	/	60nF/600nF/6uF	60nF/600nF/6uF	60nF/600nF/6uF	± (5.0%+ 10)
	/	60uF/600uF/6mF	60uF/600uF/6mF	60uF/600uF/6mF	
FREQUENCY	/	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/10MHz	10Hz/100Hz/1kHz/ 10kHz/100kHz/ 1MHz/10MHz	10Hz/100Hz/1kHz /10kHz/100kHz/ 1MHz/10MHz	± (0.3%+3)
TEMPERATURE	/	/	-20°C~1000°C (-4-1832)°F	-20°C~1000°C (-4-1832)°F	/

Display method	LCD display 5999 count	Max/Min	√
Maximum display	5999 count (606+ 1999count)	Low Z	√
Diode measurement	√	Working temperature and humidity	(0-40)°C <75%
Data retention	√	Storage temperature and humidity	(-10~50)°C<80%
NCV measurement	√	Automatic shut-down	About 15 minutes
Fire detection	√	Over-range display	the highest digit displays OL
Low voltage warning	√	Unit symbol	√
Flashlight lighting	√	Open jaws	35mm
True effective value	√	input resistance	10MΩ
INRUSH	606C+ only	Sampling rate	3 times/sec
VFC	606C+ only	power supply	Two AAA batteries

EMC
LVD CE

Clamp Multimeter

VICTOR®

Model	610B+		610C+	
DCV	600mV/6V/60V/600V	±(0.5%+7)	600mV/6V/60V/600V	±(0.5%+7)
	1000V	±(1.0%+6)	1000V	±(1.0%+10)
ACV	6V/60V	±(1.0%+10)	6V/60V	±(1.0%+10)
	600V/750V	±(1.0%+12)	600V/750V	±(1.0%+12)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+5)	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+5)
	20MΩ	±(1.5%+15)	20MΩ	±(1.5%+15)
	60MΩ	±(2.5%+20)	60MΩ	±(2.5%+20)
Low Impedance	6V/60V	±(1.0%+10)	6V/60V	±(1.0%+10)
	300V	±(1.0%+12)	300V	±(1.0%+12)
DCA	60A/600A/1000A	±(4.0%+10)	/	
ACA	60A/600A/1000A	±(4.0%+10)	6A/60A/600A/1000A	±(4.0%+10)
Frequency	10Hz~10MHz	±(0.3%+3)	/	
Capacitance	1nF	±(5.0%+40)	/	
	10nF/100nF/1uF/10uF/100uF/1mF/10mF	±(5.0%+10)	/	
Temperature	-20°C~1000°C (-4-1832)°F	±(2.0%+5)	/	
Continuity alarm	√		√	
Data hold	√		√	
Low voltage display	√		√	
Auto power off	√		√	
Max/Min			√	
Flashlight	√		√	
Overload Protection	√		√	
Living Wire Detecting	√		√	
INRUSH	√			
VFC	√			
NCV	√		√	
True RMS	√		√	
Auto power off	about 15 minutes		about 15 minutes	
Display	LCD Display, Max. display 5999 update 3 times/s		LCD Display, Max. display 5999 update 3 times/s	
Jaw opening	40mm		40mm	
Polarity indicate	Cathode auto display		Cathode auto display	
Overload indicate	OL indicating on the LCD		OL indicating on the LCD	
Low battery display	indicating on the LCD		indicating on the LCD	
Operation temperature	0°C~40°C, less than 80%RH		0°C~40°C, less than 80%RH	
Storage temperature	-10°C~50°C, less than 80%RH		-10°C~50°C, less than 80%RH	
Battery type	(Size AAA) 1.5V×2		(Size AAA) 1.5V×2	
Size	230*75*40mm		230*75*40mm	
Weight	About 313g		About 313g	



610B+



610C+

EMC
LVD CE

Clamp Multimeter

6050



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Technical data

Model	6050	6052	Accuracy
DC voltage	600mV/6V/60V	600mV/6V/60V	±(0.5%+7)
	600V/1000V	600V/1000V	±(1.0%+10)
AC voltage	6V/60V	6V/60V	±(1.0%+10)
	600V/750V	600V/750V	±(1.0%+12)
Low impedance	6V/60V	6V/60V	±(1.0%+10)
AC voltage	300V	300V	±(1.0%+12)
DC current	600A/2000A		±(4.0%+10)
AC current	600A/2000A	600A/2000A	±(4.0%+10)
	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+5)
Resistance	20MΩ	20MΩ	±(1.5%+15)
	60MΩ	60MΩ	±(2.5%+20)
Capacitance	1nF	1nF	±(5.0%+40)
	10nF/100nF/1uF/10uF/100uF/1mF/10mF	10nF/100nF/1uF/10uF/100uF/1mF/10mF	±(5.0%+10)
Frequency	10Hz~10MHz	10Hz~10MHz	±(0.3%+3)
Duty cycle	10.0%~90.0%	10.0%~90.0%	±(0.3%+3)
Temperature	(-20~1000)℃/(-4~1832)℉		±(2.0%+5)

6052



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General functions			
Display mode	LCD display	DC current reset	6050 only
Maximum display	5999	Relative value	√
Diode/on-off	√	Operating humidity	(0~40)℃ <75%RH
NCV	√	Storage temperature	(-10~50)℃ <80%RH
Data retention	√	Over range display	Highest display OL
Low voltage prompt	√	AC frequency response	40~1kHz
Line of fire judgment	√	Jaw opening	58mm dia
Flashlight lighting	√	Maximum traverse	52mm dia
Max/Min	6052 only	Input impedance	10MΩ
Automatic shutdown	√	Power Supply	AAA*2 batteries
V.F.C	6050 only	Product size	273*102*47mm
Surge current	6050 only	Product weight	About 420g

EMC
LVD CE

6056C+

Technical data

FUNCTION	6056C+	Accuracy
DCV	600mV/6V/60V	±(0.5%+7)
	600V	±(1.0%+ 20)
ACV	6V/60V	±(0.8%+ 10)
	600V	±(1.2%+ 25)
LOW INPEDANCE ACV	6V/60V	±(0.8%+ 10)
	300V	±(1.0%+12)
	60A/600A	±(4.0%+10)
	60A/600A	±(4.0%+10)
DCA	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+ 5)
RESISTENCE	20MΩ	±(1.5%+15)
	60MΩ	±(2.5%+20)
	6nF	±(5.0%+40)
CAPACITANCE	60nF/600nF/6uF	±(5.0%+ 10)
	60uF/600uF/6mF	
	10Hz/100Hz/1kHz/10kHz/100kHz/ 1MHz/10MHz	±(0.3%+3)
FREQUENCY	-20 C ~1000 C	/
TEMPERATURE	(-4-1832) F	

Display method	LCD display	Max/Min	√
Maximum display	5999 count	Low Z	√
Diode measurement	√	Working temperature and humidity	(0-40)℃<75%
Data retention	√	Storage temperature and humidity	(-10~50)℃<80%
NCV measurement	√	Automatic shut-down	About 15 minutes
Fire detection	√	Over-range display	the highest digit displays OL
Low voltage warning	√	Unit symbol	√
Flashlight lighting	√	Open jaws	35mm
True effective value	√	input resistance	10MΩ
INRUSH	√	Sampling rate	3 times/sec
VFC	√	power supply	Two AAA batteries



6056A+

Technical data

Basic function	Range	Accuracy
DC Voltage	400mV/4V/40V/400V	±(0.5%+4d)
	1000V	±(1.0%+6d)
DC Current	40A	±(3%+8d)
	400A	±(2.5%+8d)
	1000A	±(3%+10d)
AC Voltage	400mV	±(1.6%+8d)
	4V/40V/400V	±(0.8%+10d)
	750V	±(1.0%+10d)
AC Current	40A	±(3.0%+10d)
	400A	±(2.5%+8d)
	1000A	±(3%+10d)
Resistance	400Ω	±(0.8%+5d)
	4kΩ/40kΩ/400kΩ/4MΩ	±(0.8%+4d)
	40MΩ	±(1.2%+10d)
Capacitance	4nF	±(3.5%+30d)
	40nF/400nF/4uF/40uF	±(3.0%+10d)
	100uF	±(5.0%+10d)
Frequency	9.999Hz/99.99Hz/999.9Hz/9.999kHz/99.99kHz	±(0.5%+4d)

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EMC
LVD CE

Clamp Multimeter

6016B+



Technical data

Basic Function	Range	Accuracy
Model	VICTOR 6016B+	
DC Voltage	200mV/2V/20V/200V/600V	±(0.5%+4)
AC Voltage	2V/20V/200V/600V	±(0.8%+10)
AC Current	2A/20A/200A/600A	±(3.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	±(0.8%+5)
Diode Test	√	
Continuity Buzzer	√	
Low Voltage Indication	√	
Auto Negative Indication	√	
Data Hold	√	
Function Protection	√	
Input Impedance	10MΩ	
Sampling Rate	3 times/s	
AC Current Response	(50-60)Hz	
Operation Way	Manual Range	
Max. Display	1999	
Clamp Size	30mm	
Power	3V(1.5V AAA *2)	

General Features

Product Color	Case: black; Holster: orange
Product Weight	Approx. 140g (including battery)
Standard Accessories	Test Leads, Battery, Instruction Manual
Standard Inner Packing	Color Box
Standard Size Per Carton	455×365×320mm
Standard Quantity Per Carton	40Pcs
Standard Gross Weight Per Carton	Approx. 18kg

610L



Technical data

Basic Function	Range	Accuracy
Model	610L	
DCV	10V/100V ; 600V	±(0.5%+5) ; ±(1.0%+10)
ACV	10V/100V ; 600V	±(0.8%+5) ; ±(1.2%+10)
ACA	100A ; 1000A	±(2.5%+30) ; ±(4.0%+10)
ACA-VFC	1000A	±(5.0%+10)
ACA-INR	1000A	±(10.0%+20)
Resistance	100Ω ; 1000Ω ;	±(1.3%+ 10) ; ±(1.3%+5) ;
	10kΩ/100kΩ ; 1MΩ/10MΩ	±(0.8%+3) ; ±(1.5%+5)
Capacitance	100nF;1000nF	±(5.0%+50) ; ±(4.0%+50)
	10uF/100uF/1000uF/10mF	±(3.5%+20)
	100mF ; 2 00mF	±(10.0%+20) ; Not specified

General functions

Display mode	LCD display	Bluetooth	√
Max display	9999	Relative value	√
Diode/On/Off	√	work environment	(0~40)°C <75%RH
NCV	√	Storage environment	(-10~50)°C <80%RH
Data retention	√	Overrange	OL
Backlight	√	AC frequency response	40~400Hz
Low pressure	√	Jaws open	φ40mm
Peak hold	√	Maximum traverse	φ39mm
Flashlight	√	Input impedance	10MΩ
Auto shutdown	√	Power Supply	AAA*2
V.F.C	√	Product size	219*75*34mm
Surge current	√	Product weight	About 240g

EMC
LVD CE

Clamp Multimeter

VICTOR®

Technical data

Model	615B	
Basic Function	**Range**	**Accuracy**
DC Voltage	600mV/6V/60V/600V	±(0.5%+7)
	1000V/2000V	±(1.0%+10)
AC Voltage	6V/60V/600V	±(1.0%+10)
	750V/2000V	±(1.0%+12)
Low impedance	6V/60V	±(1.0%+10)
AC voltage	300V	±(1.0%+12)
DC current	60A/600A/1000A	±(2.5%+10)
AC current	60A/600A/1000A	±(2.5%+10)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ	±(1.0%+5)
	20MΩ	±(1.5%+15)
	60MΩ	±(2. 5%+20)
Capacitance	9.999nF	±(5.0%+40)
	99.99nF/999.9nF/9.999uF/99.99uF/999.9uF/9.999mF	±(5.0%+10)
	＞10mF	Not specified
Frequency	10Hz~10MHz	±(0.3%+3)
Duty cycle	10.0%~90.0%	±(0.3%+3)
Temperature	(-20~ 1000)9°C/(-4~ 1832)°F(Standard 250°Cprobe)	±(2.0%+5)

General functions			
Display mode	LCD	**Display mode**	√
Max display	5999	**Max display**	√
Diode/on-off	√	**Diode/on-off**	(0~40)°C <75%RH
NCV	√	**NCV**	(-10~50)°C <80%RH
Data retention	√	**Data retention**	Highest display OL
Backlit display	√	**Backlit display**	40~1kHz
Low voltage	√	**Low voltage**	φ40mm
Line of fire judgment	√	**Line of fire judgment**	φ39mm
Flashlight lighting	√	**Flashlight lighting**	10MΩ
Automatic shutdown	√	**Automatic shutdown**	Two AAA batteries
V.F.C	√	**V.F.C**	230*75*40mm
Surge current	√	**Surge current**	About 313g

615B

DC 2000V
AC 2000V



6015F

Basic Function	Range	Accuracy
DC Voltage	2V/20V/200V/1000V	±(2.0%+5)
AC Voltage	200V/750V	±（1.2%+5）
AC Current	20A/200A/1000A	±（2.0%+5）
Resistance	200Ω/2KΩ/20KΩ/200KΩ/2MΩ	±（1.0%+2）
Frequency	2kHz/20kHz	±(3.0%+15)
DiodeTest	√	
Continuity Buzzer	√	
LowBatteryIndication	√	
DataHold	√	
InputImpedance	10MΩ	
Sampling Rate	3 times/s	
AC Frequency Response	(50-60)Hz	
OperationWay	Auto range	
Max.Display	1999	
ClampSize	55mm	
Battery	9V(6FF2)	
ProductNet Weight	Approx:270g	
Standard Accessories	Test leads, battery, instruction manual	
Standard InnerPacking	Color box	
Standard QuantityPerCarton	30pcs	



EMC
LVD CE

Clamp Multimeter

Technical data

6266

Basic Function	Range	6266
DC voltage	1000V	±(0.8%+2)
AC voltage	750V	±(1.2%+4)
AC Current	200A/1000A	±(3.0%+5)
Resistance	200Ω/20kΩ	±(1.0%+1)

Product color	Case: black
Product net weight	Approx:310g
Standard accessories	Test leads, battery, instruction manual, TP01 temperature probe
Standard inner packing	Color box
Standard Quantity Per Carton	30pcs/ctn
Carton size	465×317×506mm
Standard Gross Weight	Approx: 16.8kg

Special Function	6266
Continuity buzzer	√
Low battery buzzer	√
Hold	Data hold
Input impedance	10MΩ
Sampling rate	3 times/s
AC Frequency response	(50~60)Hz
Operation way	Manual range
Max.Display	1999
Clamp size	50mm
Power	9V(6FF2)

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Technical data

Basic skills	Range	Precision
DC voltage	200mV/2V/20V/200V	±(0.5%+7)
	600V	±(1.0%+20)
AC voltage	2V/20V/200V	±(0.8%+10)
	600V	±(1.2%+25)
DC current	200uA/2000uA/20mA	±(1.2%+3)
	200mA	±(1.5%+3)
AC current	200uA/2000uA/20mA	±(1.8%+3)
	200mA	±(2.0%+3)
	2A	±(4.0%+50)
	20A	±(4.0%+35)
	200A/600A	±(4.0%+15)
Resistance	2002/2kΩ/20kΩ/200kΩ2/2MΩ	±(1.0%+5)
	20MΩ	±(1.5%+15)

New Model

3218+

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3218A

Special Function	3218+	3218A
Continuity buzzer	√	
Diode test	√	
Low battery indication	√	√
Hold	Peak value hold	Data hold
Auto power off	√	√
Lamp		√
Function protection	√	√
Input impedance	10MΩ	10MΩ
Sampling rate	3 times/s	3 times/s
AC Frequency response	50Hz~60Hz	50Hz~60Hz
Operation way	Manual range/Auto range	Manual range
Max.Display	1999	1999
Clamp size	30mm	30mm
Power	3V(1.5V×2)	3V(1.5V×2)

3 1/2



EMC
LVD CE

Clamp Multimeter

VICTOR®

New Model

626A

New Colorful TFT Screen 6000/10000 digits display
Power:rechargable lithrum battery

Model	626A	626B	Accuracy
DC voltage	600mV/6V/60V	999.9mV/9.999V/99.99V	±(0.5%+7)
	600V	1000V	±(1.0%+6)
AC voltage	6V/60V	9.999V/99.99V	±(0.8%+10)
	600V	750V	±(1.0%+10)
DC current		99.99A/600A	±(2.5%+5)
AC current	6A/60A/600A	99.99A/600A	±(2.5%+5)
Resistor	6000/6kΩ/60kΩ/600kΩ/6MΩ	999.9Ω/9.999kΩ/99.99kΩ/999.9kΩ/9.999MΩ	±(1.0%+5)
	60M	60MΩ	±(5.0%+30)
Capacitor	6nF	9.999nF	±(5.0%+40)
	60nF/600nF/6uF/60uF/600uF/6mF	99.99nF/999.9nF/9.999uF/99.99uF/999.9uF/9.999mF	±(5.0%+10)
	60mF/100mF	99.99mF	/
Frequency	10Hz~10MHz	10Hz~10MHz	±(1.0%+10)
Temperature		-20~1000℃	±(1.0%+5)
Other functions			
Max display	Maximum display:626A:5999(35/6 digits);626B:10000 (3 9/10 digits), dual display		
Sampling rate	3 times per second		
Over-range	Automatic range, over-range display "OL"		
lighting	Yes		
Data retention	Yes		
Auto shutdown	Yes (settings for) (15 minutes, 30 minutes, 1 hour)		
Simulation bar	Yes		
Max/Min	Automatically obtain (excluding NCVand LIVE files)		
Diode	Yes		
On-off heeping	Yes		
HCV/LVE	Yes		
Language	Chinese, English		
Brightness setting	25%、50%、75%、100% Optional		
Relative value	Yes		
Trms	Yes		
Display screen	2.0-inch IPS TFT color screen		
Power supply	3.7V 1000mAh polymer lithium battery		
USB charging	Type-C interface charging		
Work	(0~40)℃,<75%RH		
Storage	(-20~60)℃,<85%RH		
Size	(207x73X35)mm		
Weight	226g		



626B



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Clamp Multimeter



606D



606E

Technical Data

Basic Function / Model	Range	Accuracy 606D	606E
DC Voltage	400MV/4V/40V/600V	±(0.5%+5)	±(0.5%+5)
AC Voltage	4V/40V/600V	±(1.0%+5)	±(1.0%+5)
DC Current	4A/40A/600A	*	±(2.5%+5)
AC Current	4A/40A/600A	±(2.5%+5)	±(2.5%+5)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ40MΩ	±(1.0%+3)	±(1.0%+3)
Capacitance	10nF/100nF/1uF/10uF/100uF/1mF	±(4.0%+5)	±(4.0%+5)
Frequency	10Hz-10MHz	±(0.5%+3)	±(0.5%+3)
Duty cycle	1%-99%	±(1.0%+2)	±(1.0%+2)
Temperature	(-2~1300)℃ (-4~1832)℉	±(2.0%+3)	±(2.0%+3)
measurement			
Special Function			
Diode		√	√
Continuity Buzzer		√	√
Low battery indication		√	√
Data Hold		√	√
Auto power off		√	√
Backlight/Torch		√	√
DCAZERO Function			√
True RMS		√	√
NCV measurement		√	√
Full range protection		√	√
Operation way		Auto range	Auto range
Max. Display		3999	3999
LCD Size		32*22mm	32*22mm
Battery		1.5V*2	1.5V*2

General Characters

Product Color	Case: black ; Holster color: orange
Product Net Weight	Approx.176g
Product dimension	174*66*30mm
Standard Quantity Per Carton	30Pcs
Standard inner packing	Color box

EMC
LVD CE

Clamp Multimeter

VICTOR®

Technical Data

Basic Function	Range	Accuracy 606G	606H
DCV	6V/60V/600V/1000V	±(0.5%+3)	±(0.5%+3)
ACV	6V/60V/600V/750V	±(0.5%+5)	±(0.5%+5)
Resistance	600Ω/6k/60k/600k/6M/40M(606G)/60M(606H)	±(0.8%+3)	±(0.8%+3)
Capacitance	60nF/600nF/6uF/600uF/6mF/30mF	±(2.0%+8)	
	10nF/100nF/1uF/100uF/1mF/10mF/60mF		±(2.0%+8)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	±(0.01%+2)	
ACA	60A/600A		±(3%+30)
	6A/60A/600A	±(3%+30)	
Temperature	(-2~1300)°C (-4~1832)°F	√	

Special Function		
Operation Way	Auto Range	Auto Range
Max. Display	5999	5999
True RMS	√	√
Diode Test	√	√
Continuity Buzzer	√	√
Back Light	√	√
Square Wave Output	√	
NCV Measurement	√	√
Flashlight Lighting	√	√

General Characters		
Battery	2*1.5V	2*1.5V
LCD Size	32*22mm	32*22mm
Product Color	Orange and Black	Orange and Black
Product Net Weight	176g	176g
Product Size	174*66*30mm	174*66*30mm
Clamp Size	25mm	25mm
Standard Accessories	Instruction Manual, Battery, Bag,Test Leads, Temperature Probe	
Standard Inner Packing	Color Box	Color Box
Carton Size	45*42*27cm	45*42*27cm
Standard Quantity Per Carton	60pcs	60pcs
Standard Gross Weight	23.6KG	23.6KG



606H



606G

EMC CE
LVD

Clamp Multimeter



610E



610D

Technical parameter

Modle Basic skills	Range 610D	 610E	Precision
DC voltage	600mV/6V/60V/600V	600mV/6V/60V/600V	±(0.5%+5)
	1000V	1000V	±(0.8%+5)
AC voltage	600mV/6V/60V/600V	600mV/6V/60V/600V	±(0.8%+5)
	750V	750V	±(1.0%+5)
	VFD(750V)	VFD(750V)	±(2.0%+5)
DC current	*	60A/600A/1000A	±(2.5%+8)
AC current	60A/600A/1000A	60A/600A/1000A	±(2.5%+8) VFD/INRUSH: ±(5.0%+10)
Resistance	600Ω/6kΩ/60kΩ/ 600kΩ/6MΩ/60MΩ	600Ω/6kΩ/60kΩ/ 600kΩ/6MΩ/60MΩ	±(1.0%+5)
Capacitance	10nF/100nF/1000nF/ 10uF/100uF/1000uF/10mF	10nF/100nF/1000nF/ 10uF/100uF/1000uF/10mF	±(4.0%+5)
	100mF	100mF	±(5.0%+10)
Frequency/Duty Cycle	10Hz/100Hz/1000Hz/ 10KHz/100KHz/1000KHz	10Hz/100Hz/1000Hz/ 10KHz/100KHz/1000KHz	±(1.0%+3)
	10MHz 1~99%	10MHz 1~99%	±(3.0%+3)
Temperature	-20°C ~0°C	-20°C ~0°C	±3°C
	0°C~400°C	0°C~400°C	±1.0% or ±2°C
	400°C~1000°C	400°C~1000°C	±2%
	-4°F~32°F	-4°F~32°F	±6°F
	32°F~752°F	32°F~752°F	±1.0% or±4°F
	752°F~1832°F	752°F~1832°F	±2%

Features	
Display	LCD display
Max display	6000 counts
Diode	√
Data retention	√
NCV	√
Fire detection	√
Low voltage	√
Flashlight	√
True effective value	√
INRUSH	√
VFD	√
Max/Mln	√
LoZ	√
Working humidity	0~40°C <80%
Storage humidity	-10~50°C <80%RH
Auto shut-down	About 15 minutes
Over-range display	The highest digit shows OL
Unit symbol	√
Open jaws	40mm
input resistance	10MΩ
Sampling rate	3 times/sec
Power supply	Three AAA batteries

EMC
LVD CE TÜV SÜD ISO 9001

Insulation Tester

Specifications	60B+		
Measuring Voltage	250V+10%	500V+10%	1 000V+10%
Range	0.4MΩ~999 MΩ	0.6MΩ~1999 MΩ	0.8MΩ~4999 MΩ
Current of Short Circuit	1.8mA	1.8mA	1.6mA
Median Resistance	2MΩ	2MΩ	5MΩ
Jack Position	L/E		
Features			
Low Battery Indication	√		
Backlight display	√		
Alarm Function	Red indicator light is iluminated		
Over Load Indication	√		
Unit Symbol Display	√		
Auto Power Off	√		
Max. Display	4999		
Using Temperature	(0~40)°C		
Relative Humidity	30%RH~85%RH		
Input Impedance	1MΩ		
Frequency Response	(50-200) Hz		
Over Range Display	"1"		
General Information			
Power Color	Case: black, Holster color : orange		
Power Supply	9V (8x1 .5V AA); AC adapter (not included)		



60B+ *DC 1500V*

Specifications	60D+		
Measuring Voltage	500V	1000V	2500V
Measurement range	0.6MΩ~4.99GΩ	1MΩ~9.99GΩ	3MΩ~49.9GΩ
Open-circuit voltage	DC 500V+20% -0%	DC 1000V+20% -0%	DC 2500V+20% -0%
Rated test current	500kΩ Load≥1.0mA	1MΩ Load≥1.0mA	2.5MΩ Load≥1.0mA
Accuracy	±(5%+5)	±(5%+5)	≥3MΩ±(5%+5)
Features			
Low Battery Indication	√		
Backlight display	√		
Alarm Function	Red indicator light is iluminated		
Over Load Indication	√		
Unit Symbol Display	√		
Auto Power Off	√		
Max. Display	1999		
Using Temperature	(0~40)°C		
Relative Humidity	30%RH~85%RH		
Input Impedance	1MΩ		
Frequency Response	(50-200) Hz		
Over Range Display	"1"		
General Information			
Power Color	Case: black, Holster color : orange		
Power Supply	9V (8x1 .5V AA); AC adapter (not included)		



60D+ *DC 2500V*

Gear	60E+ Range	Resolution	Accuracy
AC/DC voltage range	DCV: ± 20--1000V	1V	± 2%+5
	ACV: 20--750V(Frequency response 50Hz--1kHz)		
Insulation resistance 1000V Test value<2M, buzzer alarm, test time 1 minute	2M--4M	0.001M	± 5%+5
	4M--40M	0.01M	
	40M--400M	0.1M	
	0.4G--4G	0.001G	
	4G--20G	0.01G	
Insulation resistance 2500V Test value<4M, buzzer alarm, test time 1 minute	4M--40M	0.01M	± 5%+5
	40M--400M	0.1M	
	0.4G--4G	0.001G	
	4G--20G	0.01G	
	20G--50G	0.1G	± 10%+5
Insulation resistance 5000V Test value<10M, buzzer alarm, test time 1 minute	10M--40M	0.01M	± 5%+5
	40M--400M	0.1M	
	0.4G--4G	0.001G	
	4G--20G	0.01G	
	20G--100G	0.1G	± 10%+5
	100G--200G	1G	



60E+ *DC 5000V*

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Earth resistance tester



4105A/B

1.This digital ground resistance tester is a new generation of electrical test Instruments, beautiful and practical style.
2.Full-featured, high accuracy, convenient and reliable operation, dustproof moisture-proof structure, better suited to field use.
3.It can be used to measure a variety of power systems, electrical equipment,lightning protection equipment grounding system grounding resistance value, itCan Also measure AC voltage.

Technical data

Basic Function				
4105A	Ground resistance	20Ω	±(2%+0.1Ω)	0.01Ω
		200Ω	±(2%+3d)	0.1Ω
		2000Ω		1Ω
	Ground resistance(AC current)	200V	±(2.0%+6d)	0.1V
4105B	Ground resistance	10Ω	±(3%+0.1Ω)	0.01Ω
		100Ω	±(3%+3d)	0.1Ω
		1000Ω	±(3%+8d)	1Ω
	Ground resistance(AC current)	750V	±(1.0%+10d)	1V

General features	
Display	84.8×59.8mm LCD display, max display “1999”
Over range presentation	It will display “1” on the top number when it is over range
Power	Alkalescence battery LR (1.5V)×8 (can contact with power adapter) When the battery is low, it will display a low battery sign
Power Dissipation	Electricity cost (no-lode)≤800mw
Work environment	Teperature 0~40; relative humidity 30%~80%RH
Product size	175(L)×110(W)×70(D)mm
Weight	Approx: 680g (include battery)

EMC
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Handheld insulation resistance tester

VICTOR®

New Model

960B

VICTOR 960B True RMS Digital Multimeter with I000V Insulation Resistance Tester 2 in 1 , with Lithium Battery



Insulation Resistance Tester

Rated voltage	Measurement range	Range	Precision	Resolution
50V	4M/40M/400M/1GΩ	0.05MΩ~1GΩ	±(5%+5)	0.001MΩ~0.001GΩ
100V	4M/40M/400M/2GΩ	0.1MΩ~2GΩ		
250V	4M/40M/400M/4G/5GΩ	0.25MΩ~5GΩ	0.25MΩ~399.9MΩ:±(3%+5)	0.001MΩ~0.01Ω
500V	4M/40M/400M/4G/10GΩ	0.5MΩ~10GΩ	0.4GΩ~2GΩ:±(5%+5)	
1000V	4M/40M/400M/4G/20GΩ	1MΩ~20GΩ	2.001GΩ~20GΩ:±(10%+5)	

Measurement of terminal characteristics

Rated voltage	Allowable range	Drop resistance value	Short-circuit current	Note
50V	Rated voltage	0.05MΩ	1mA	Alarm sounds when resistance is less than 0.3MΩ
100V	+20%~0%	0.1MΩ		Alarm sounds when resistance is less than 0.6MΩ
250V		0.25MΩ		Alarm sounds when resistance is less than 1MΩ
500V		0.5MΩ		Alarm sounds when resistance is less than 2MΩ
1000V		1MΩ		Alarm sounds when resistance is less than 4MΩ

Function	Range	Accuracy
DC voltage	6V/60V/600V	±(0.5%+4)
	1000V	±(1.0%+6)
AC voltage	6V/60V/600V	±(0.8%+10)
	750V	±(1.0%+10)
Resistor	600Ω	±(0.8%+5)
	6kΩ/60kΩ/600kΩ/6MΩ	±(0.8%+4)
	60MΩ	±(2.0%+5)
Capacitor	10nF	±(3.0%+20)
	100nF/1000nF/10uF/100uF/1000uF	±(3.0%+5)
	10mF/100mF	±(8.0%+5)

Function	
Sampling rate	About 3 times per second
Overrange	Display "OL"
Low pressure	Yes
Diode	Yes
Data retention	Yes
On-off beeping	Yes
Backlight display	Yes
True effective value	Yes
Automatic shutdown	About 15 minutes after powering on
Power supply	10440 2 x 3.7V lithium batteries
Size	189*88*56mm
Weight	Approximately 395g

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LVD CE

Dc Resistance Tester

General Specification

Model	Range	Accuracy	Resolution	Maximum test current
6310B	0.001mΩ~10.000mΩ	Within 18℃~28℃,	0.001mΩ	1.2A
	10.01mΩ~100.00mΩ	Below 70%rh:	0.01mΩ	1.2A
	100.1mΩ~1000.0mΩ	±0.1%FS±20dgt	0.1Ω	1.2A
	1.001Ω~10.000Ω		0.001Ω	1.2A
	10.01Ω~100.00Ω		0.01Ω	0.5A
	100.1Ω~1000.0Ω		0.1Ω	0.05A
	1.001KΩ~10.000KΩ		0.001KΩ	5mA
	10.01KΩ~100.00KΩ		0.01KΩ	0.5mA
	100.1KΩ~300.0KΩ		0.1KΩ	0.05mA
6310A	0.01mΩ~100.00mΩ	Within 18℃~28℃,	0.01mΩ	1.2A
	100.1mΩ~1000.0mΩ	Below 70%rh:	0.0001Ω	1.2A
	1.001Ω~10.000Ω	±0.1%FS±20dgt	0.001Ω	1.2A
	10.01Ω~100.00Ω		0.01Ω	0.5A
	100.1Ω~1000.0Ω		0.0001KΩ	0.05A
	1.001KΩ~10.000KΩ		0.001KΩ	5mA
	10.01KΩ~30.00KΩ		0.01KΩ	0.5mA

Note: within 18℃~28℃, above 70%rh, within -10℃~50℃, below 80%rh: ±0.2%FS±20dgt.



6310A/6310B

Model of Series		
Resistance Range	0.01mΩ~30.00KΩ	0.001mΩ~300.0KΩ
Resolution	10uΩ	1uΩ
Accuracy	±0.1%FS	±0.1%FS
Data storage	500 sets	500 sets
USB Data upload function	N	Y
Charging function	Y	Y

Model of Series	
Function	Mainly used to measure the wire resistance of cables, the contact resistance of switches, connectors, relays, the resistance of coils, motors, transformer winding and metal riveting resistance, the connection resistance test between metal components, the low-value resistance test, and the grounding grid Resistance test of connecting conductor, contact resistance test, etc.
Detection method	Four-wire method test
Test current	≥1A
Open circuit voltage	≤4.2V
Overload protection	Y
Power	Measuring power≤8W
power supply	DC 3.7V 2000mAh
Backlight	Controllable gray and white screen backlight, suitable for dim places
Display Model	LCD
LCD Size	72 mm×55mm
Instrument size	187 mm×119 mm×50mm
Test line length	About 60cm，red, black 1pcs
measure time	About 2 times/sec
USB interface	With micro USB interface
Communication line	micro USB 1pcs
Data storage	500 groups, "MEM" storage indication, display "FULL" symbol to indicate storage is full
Data review	Data review function：“MR”symbol display
Overflow display	Over-range overflow function: "OL" symbol display
Battery voltage	Real-time display of battery power, reminding timely charging when battery voltage is low
Automatic shut-down	"APO" indicates, automatic shutdown after 15 minutes
Power consumption	Standby: about 100mA (backlight off)
	Turn on backlight: about 105mA
	Measure：2A Max(backlight off)
Weight	Instrument:480g(including battery)
	Test line：250g
Working temperature and humidity	-10℃～50℃；below 80%rh
Storage temperature and humidity	-20℃～60℃；below 70%rh
Overload protection	AC 220V/0.0001 second between C1-C2 P1-P2 ports, after overload protection, you need to restart the meter to test normally
Insulation resistance	More than 10MΩ(Between circuit and case 500V)
Pressure resistance	AC 3700V/rms(Between circuit and case)
Electromagnetic properties	IEC61010-4-3，Wireless frequency electromagnetic field≤1V/m
Suitable for Safety Regulations	IEC61010-1, CAT III 600V, Pollution Level 2, JJG724-1991 "Determination of Direct Current Digital Ohmmeter", JJG166-1993 "Dialect Resistor Verification Regulation", "DL/T967-2005 Loop Resistance Tester and DC Resistance Fast Tester Verification Procedures

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Insulation Resistance Tester

VICTOR®



9600/9600B

General Specification

Model	Rated Voltage	Insulation Resistance Range	Short Circuit Current
9600	250V,500V,1KV,2.5KV,5KV	0.50MΩ~2.00TΩ	>5mA
9600B	250V,500V,1KV,2.5KV,5KV,10KV	0.50MΩ~5.00TΩ	>5mA

Insulation Resistance Range and Accuracy

Rated Voltage	Insulation Resistance Range	Accuracy
250V	0.50MΩ～ 10.0GΩ	±5%±3dgt
	10.0GΩ～ 50.0GΩ	±10%±3dgt
	50.0GΩ～ 100GΩ	±20%±3dgt
500V	1.00MΩ～ 20.0GΩ	±5%±3dgt
	20.0GΩ～ 100GΩ	±10%±3dgt
	100GΩ～ 200GΩ	±20%±3dgt
1KV	1.00MΩ～ 50.0GΩ	±5%±3dgt
	50.0GΩ～ 200GΩ	±10%±3dgt
	200GΩ～ 500Ω	±20%±3dgt
2.5KV	1.00MΩ～ 100GΩ	±5%±3dgt
	100GΩ～ 500GΩ	±10%±3dgt
	500GΩ～ 1.00TΩ	±20%±3dgt
5KV	1.00MΩ～ 200GΩ	±5%±3dgt
	200GΩ～ 1.00TΩ	±10%±3dgt
	1.00TΩ～ 2.00TΩ	±20%±3dgt
10KV	1.00MΩ～ 500GΩ	±5%±3dgt
	500GΩ～ 2.00TΩ	±10%±3dgt
	2.00TΩ～ 5.00TΩ	±20%±3dgt

1 TΩ（Tera ohm）=1000GΩ=10^{12}Ω
1 GΩ（Giga ohm）=1000MΩ=10^{9}Ω
1 MΩ（Mega ohm）=1000KΩ=10^{6}Ω

Technical Specification

Model of Series	
Function	Insulation resistance measurement (IR); polarization index measurement (PI); absorption ratio (DAR); filtered resistance test (four time selection 10S,20S,30S,40S). Voltage measurement(V); Leakage current measurement（nA）
Power Supply	Rechargeable lithium battery 5.2Ah
Rated Voltage	9600：250V，500V，1KV，2.5KV，5KV
	9600B：250V，500V，1KV，2.5KV，5KV，10KV
Output Voltage Accuracy	（5%～10%）±10V
Insulation Resistance Test Range	9600：0.50MΩ～2.00TΩ 9600B：0.50MΩ～5.00TΩ
Output Short Circuit Current	>5mA
Polarization Index Test	YES
Dielectric Absorption Ratio Test	YES
Ramp Test Mode	Step up to the preset voltage by testing with 10% stepped size of the preset voltage.
Filtered Resistance Test Mode	10S、20S、30S、40S four selections
Voltage Test	Range：AC/DC:0V～1000V；Accuracy: ±5%rdg±3V
Current Test	Range：0.01nA～5mA；Accuracy: ±5%rdg±0.5nA
Voltage Monitor	Monitor the voltage of the measured object, and monitor discharge status after test, forbidden to test when voltage exceed 36V, protect instrument and operator.
Test Timer	Automatic record test time, time range: 0s~9999s
Storage Function	Automatically store the test data with test date and time, total of 1000 groups
Upload Function	Upload the stored data to computer via USB communication cable.
Battery Power Display	With battery power display, when battery voltage low will remind to replace the battery
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation
Meter Dimension	280mm×260mm×160mm
Meter Weight	4400g (include the battery)
Test Wires	Red color high voltage test wire 1 pcs (with alligator clip 1PCS and hook 1PCS), green color test wire 1PCS, black color test wire 1PCS
Protection Level	Close the case IP65, open the case IP40
Working Environment	-20℃～50℃；80%rh
Store Environment	-25℃～65℃；80%rh
Insulation Resistance	50MΩ（1000v）（between the test circuit and shell）
Withstand Voltage	AC 3Kv 50Hz 1min（between the test circuit and shell）
Suitable Safety Standard	IEC61010-1，IEC61326-1

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LVD CE

Insulation Resistance Tester

Model Category

Model	Rated Voltage	Insulation Resistance Range	Current
9620	250V,500V,1KV,2.5KV,5KV	0.50MΩ~10.0TΩ	>7mA
9620B	250V,500V,1KV,2.5KV,5KV,10KV	0.50MΩ~20.0TΩ	>7mA
9620C	250V,500V,1KV,2.5KV,5KV,10KV,15KV	0.50MΩ~30.0TΩ	



9620/9620B/9620C

Insulation Resistance Range and Accuracy

Rated Voltage	Insulation Resistance Range	Accuracy
250V	0.50MΩ～ 50.0GΩ	±5%rdg±3dgt
	50.0GΩ～ 500GΩ	±20%rdg±3dgt
500V	1.00MΩ～ 100GΩ	±5%rdg±3dgt
	100GΩ～ 1.00TΩ	±20%rdg±3dgt
1000V	1.00MΩ～ 200GΩ	±5%rdg±3dgt
	200GΩ～ 2.00TΩ	±20%rdg±3dgt
2500V	1.00MΩ～ 500GΩ	±5%rdg±3dgt
	500GΩ～ 3.00TΩ	±20%rdg±3dgt
5000V	1.00MΩ～ 1.00TΩ	±5%rdg±3dgt
	1.00TΩ～ 10.0TΩ	±20%rdg±3dgt
10KV	1.00MΩ～ 2.00TΩ	±5%rdg±3dgt
	2.00TΩ～ 20.0TΩ	±20%rdg±3dgt
15KV	1.00MΩ～ 3.00TΩ	±5%rdg±3dgt
	3.00TΩ～ 30.0TΩ	±20%rdg±3dgt

1 TΩ（Tera ohm）=1000GΩ=10^{12}Ω
1 GΩ（Giga ohm）=1000MΩ=10^{9}Ω
1 MΩ（Mega ohm）=1000KΩ=10^{6}Ω

Technical Specification	
Function	Insulation resistance measurement (IR); polarization index measurement (PI); absorption ratio (DAR); ramp test mode (RAMP); filtered resistance test (four time selection 10S,20S,30S,40S);
	Voltage measurement(V); capacity measurement（uF）; current measurement（nA）
Power Supply	Rechargeable lithium battery 6.2Ah
Rated Voltage	9620：250V、500V、1KV、2.5KV、5KV
	9620B：250V、500V、1KV、2.5KV、5KV、10KV
	9620C：250V、500V、1KV、2.5KV、5KV、10KV、15KV
Output Voltage Accuracy	(5%～10%)±10V
Insulation Resistance Test Range	9620：0.50MΩ～10.0TΩ
	9620B：0.50MΩ～20.0TΩ
	9620C：0.50MΩ～30.0TΩ
Output Short Circuit Current	≥7mA
Polarization Index Test	YES
Dielectric Absorption Ratio Test	YES
Ramp Test Mode	Step up to the preset voltage by testing with 10% stepped size of the preset voltage.
Filtered Resistance Test Mode	10S、20S、30S、40S four selections
Voltage Test	Range：AC/DC:0V～1000V；Accuracy: ±5%rdg±3V
Capacitance Test	Range：10nF～25uF；Accuracy: ±10%rdg±10nF
Current Test	Range：0.01nA～7mA；Accuracy: ±5%rdg±0.5nA
Voltage Monitor	Monitor the voltage of the measured object, and monitor discharge status after test, forbidden to test when voltage exceed 36V, protect instrument and operator.
Test Timer	Automatic record test time, time range: 0s~9999s
Storage Function	Automatically store the test data with test date and time, total of 1000 groups
Upload Function	Upload the stored data to computer via USB communication cable.
Battery Power Display	With battery power display, when battery voltage low will remind to replace the battery
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation
Meter Dimension	280mm×260mm×160mm
Meter Weight	4900g (include the battery)
Test Wires	Red color high voltage test wire 1 pcs (with alligator clip 1PCS and hook 1PCS), green color test wire 1PCS, black color test wire 1PCS
Protection Level	Close the case IP65, open the case IP40
Working Environment	-20℃～50℃；80%rh
Store Environment	-25℃～65℃；80%rh
Insulation Resistance	50MΩ（1000v）（between the test circuit and shell）
Withstand Voltage	AC 3Kv 50Hz 1min（between the test circuit and shell）
Suitable Safety Standard	IEC61010-1，IEC61326-1

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Insulation Resistance Tester

VICTOR®

Insulation Resistance Range and Accuracy

Basic function	Output voltage	Range	Accuracy
Insulation Resistance	250V	0.01MΩ～2.5GΩ	±3%±5dgt
		2.5GΩ～250GΩ	±15%±5dgt
	500V	0.01MΩ～5GΩ	±3%±5dgt
		5GΩ～500GΩ	±15%±5dgt
	1KV	0.01MΩ～10GΩ	±3%±5dgt
		10GΩ～1TΩ	±15%±5dgt
	2.5KV	0.01MΩ～25GΩ	±3%±5dgt
		25GΩ～2.5TΩ	±15%±5dgt
	5KV	0.01MΩ～50GΩ	±3%±5dgt
		50GΩ～5TΩ	±15%±5dgt
AC/DC voltage	ACV	0.01V~750v	±2%rdg±3dgt
	DCV	0.01V~1000v	±2%rdg±3dgt



9600S

General Specification

General function	
Function	Insulation resistance measurement (IR); polarization index measurement (PI); absorption ratio (DAR);AC and DC voltage test; automatic discharge function: ambient temperature test;
Power Supply	DC 14.8V 2200mAh rechargeable lithium battery
Rated Voltage	250V, 500V, 1000V, 2500V, 5000V
Output Short Circuit Current	≥10mA
Connection method	L terminal: "L" is called the high-voltage output terminal,called the line terminal, and leads to the end of the measured object
	G terminal: "G" is called the shield terminal,which is used for the three-electrode method to measure the insulation resistance of insulating materials or cables,and it is connected to the GRE
	E terminal: "E" is called the ground terminal,which is connected to the ground and zero terminals of the measured object. Such as motor housing metal, transformer core, cable shielding
	V terminal: AC and DC voltage measurement terminal (AC and DC automatic identification)
Resolution	Insulation resistance: 0.01 MΩ AC voltage: 0.01V DC voltage: 0.01V
Measure time	1 minute to 30 minutes (related to the measurement method, can be set)
Backlight	Controllable white screen backlight, suitable for dark places
Shift	Fully automatic shifting
LCD	4-digit LCD display, white screen backlight
LCD size	128mmX75mm
LCD display field	124mmX67mm
Measurement instructions	LED flashing indication during measurement, progress bar graph indication
Size	258mmx21 5mmx 83mm
Standard test lead	1 red high voltage test rod, 1 green and 1 black test lead.
Battery voltage	Real-time display of remaining battery power, please charge in time when the battery is low
Communication Interface	With a USB interface, the stored data can be uploaded to the computer, saved and printed
Communication line	1 USB communication cable, 1.5m long
Working current	Standby: 25mA Max (backlight off); Backlight: 25mA Max (backlight power consumption alone);
Weight	Meter: 2.19kg (including battery),Total: 3.50kg (including packaging)
Toolkit	Yellow and black two-color tool bag, easy to carry, good visual effect
Working temperature and humidity	-10°C~ 40°C; below 80%rh
Storage temperature and humidity	-20°C~ 60°C; below 70%rh
Pressure resistance	AC 3700V/rms (between the front and rear ends of the housing)
Insulation resistance	Above 20MQ (500V between bottom cover screws and top cover)
Electromagnetic properties	IEC61326(EMC)

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Ground Resistance Tester



Earth Resistance Soil Resistivity Tester

Earth Resistance Soil Resistivity Tester is specially designed and manufactured for measuring earth resistance, soil resistivity, earth voltage, AC voltage. Adopting the latest digital and micro-processing technology, precise 4-pole, 3-pole and simple 2-pole method for earth resistance measurement, importing FFT and AFC technology, with a unique function of anti-interference capability and the ability to adapt to the environment, consistency of repeat testing, to ensure high precision, high stability and reliability for prolonged measure, which is widely used in electric power, telecommunications, meteorology, oil field, construction, lightning protection, industrial electrical equipment and other earth resistance, soil resistivity, earth voltage, AC voltage measurement.

4105C

General Specification

Function	fMeasurement of 2/3/4-pole earth resistance, soil resistivity, earth voltage, AC voltage
Power Supply	DC 9V (Zi-Mn dry battery R14S 1.5V 6 PCS, continuous standby for 300 hours)
Measurement Range	Earth Resistance: 0.00Ω-30.00kΩ
	Soil Resistivity: 0.00Ωm-9000kΩm
Measuring Mode	Precise 4-pole measurement, 3-pole measurement, simple 2-pole measurement
Measuring Method	Earth Resistance: rated current change-pole method, measurement current 20mA Max Soil Resistivity: 4-pole measurement (Wenner method) Earth Voltage: average rectification(between P(S)-ES)
Test Frequency	128Hz/111Hz/105Hz/94Hz(AFC)
Short-circuit Test Current	AC 20mA max
Open-circuit Test Current	AC 40V max
Test Voltage Wave	Sine wave
Electrode Distance Range	Can be set 1m-100m
Shift	Earth Resistance: 0.00Ω-30.00kΩ, automatic shift
	Soil Resistivity: 0.00Ωm-9000kΩm, automatic shift
Backlight	Blue screen backlight, suitable for dim places
Display Mode	4-digital super-large LCD display, blue screen backlight
Measuring Indicator	During measurement, LED flash indicator, LCD count down display, progress bar indicator
LCD Frame Dimension	128mm×75mm
LCD Window Dimension	124mm×67mm
Dimension	L×W×H: 215mm×190mm×95mm
Standard Test Wire	4 wires: each for red 20m, black 20m, yellow 10m, and green 10m
Simple Test Wire	2 wires: each for red 1.6m and black 1.6m
Auxiliary Earthing Rod	4 rods: Φ10mm×150mm
Measuring Rate	Earth voltage: about 3 times/second
	Earth resistance, soil resistivity: about 5 seconds/time

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General Specification

Function	
Measuring Times	Over 5000 times (Short-circuit test, interval time should be at least 30 seconds)
Line Voltage	below AC 600V
RS232 Interface	Possess RS232 interface, software supervision, storage data can be uploaded to computer, saved or printed.
Communication Wire	One piece of RS232 communication wire, with length 1.5m
Data Storage	300 sets, "MEM" icon storage indicator, flash display "FULL" icon to indicate storage is full
Data Hold	Data hold function: "HOLD" icon display
Data Access	Data read function: "READ" icon display
Overflow Display	Exceeding measuring range overflow function: "OL" icon display
Interference Test	Recognize interference signal automatically, "NOISE" icon display when interference voltage exceed 5V
Auxiliary Earthing Test	Can measure auxiliary earth resistance, 0.00KΩ-30kΩ(100R+rC<50kΩ, 100R+rP<50kΩ)
Alarm Function	When measuring value exceeds alarm setting value, there is "Toot-toot-toot" alarm hint
Battery Voltage	When battery voltage decreases to about 7.5V, battery voltage low icon will display, reminding to replace battery.
Power Consumption	Standby: about 20mA (Backlight shut off)
	Boot and with backlight: about 45mA (25mA without backlight)
	Measurement: about 100mA (Backlight shut off)
Weight	Total weight: 4.5kg (including package)
	Tester: 1443g (including battery)
	Testing wires: 1560g
	Auxiliary earthing rods: 935g (4pcs)
Working Temperature & Humidity	-10℃-40℃, below 80%rh
Storage temperature & humidity	-20℃-60℃, below 70%rh
Overload Protection	Measuring earth resistance: between each interfaces of C(H)-E、P(S)-ES, AC 280V/3 seconds
Insulation Resistance	Over 20MΩ (between circuit and enclosure it is 500V)
Withstanding Voltage	AC 3700V/rms (Between circuit and enclosure)
Electromagnetic Features	IEC61326(EMC)
Protection Type	IEC61010-1 (CAT Ⅲ 300V, CAT Ⅳ 150V, Pollution 2), IEC61010-031, IEC61557-1 (Earth resistance), IEC61557-5 (Soil resistivity), JJG 366-2004

Intrinsic error and performance indicators under base conditions

Category	Measurement Range	Intrinsic Error	Resolution
Earth Resistance	0.00Ω-30.00Ω	±2%rdg±3dgt	0.01Ω
(R)	30.0Ω-300.0Ω	±2%rdg±3dgt	0.1Ω
	300Ω-3000Ω	±2%rdg±3dgt	1Ω
	3.00kΩ-30.00kΩ	±4%rdg±3dgt	10Ω
	0.00Ωm-99.99Ωm	According to the precision of R	0.01Ωm
Soil Resistivity	100.0Ωm-999.9Ωm	(ρ=2πaR	0.1Ωm
(ρ)	1000Ωm-9999Ωm	a:1 m-100m,	1Ωm
	10.00kΩm-99.99kΩm	π=3.14)	10Ωm
	100.0kΩm-999.9kΩm		100Ωm
	1000kΩm-9000kΩm		1kΩm
Earth Voltage	AC 0.0-600V	±2%rdg±3dgt	0.1V

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Ground Resistance Tester



4106C



4106C

Basic Function	Range	Resolution	Accuracy
Ground resistance	0.00Ω～30.00Ω	0.01Ω	±2%rdg±3dgt
	30.0Ω～300.0Ω	0.1Ω	±2%rdg±3dgt
	300Ω～3000Ω	1Ω	±2%rdg±3dgt
	3.00kΩ～30.00kΩ	10Ω	±4%rdg±3dgt
Ground voltage	AC 0.0～600V	0.1V	±2%rdg±3dgt
Soil resistivity	0.00Ω m～99.99Ω m	0.01Ω m	According to the measurement accuracy of R (ρ=2πaR; a: 1 m~100m; π=3.14)
	100.0Ω m～999.9Ω m	0.1Ω m	
	1000Ω m～9999Ω m	1Ω m	
	10.00kΩ m～99.99kΩ m	10Ω m	
	100.0kΩm～999.9kΩm	100Ω m	
	1000kΩm～9000kΩm	1kΩ m	
Measuring method	Grounding resistance:rated current pole changing method, measuring current 20mA Max. Soil resistivity: quadrupole method (Wenner method). Grounding voltage : average value rectification		
Test frequency	128Hz/111Hz/105Hz/94Hz(AFC)		
Test voltage waveform	Sine wave		
Short circuit test current	AC 20mA max		
Data storage	300 groups		
Data reference	"READ" symbol		
Open circuit test voltage	AC 40V max		
Data hold	"HOLD" symbol		
Overflow display	"OL" symbol		
Test line	red 20m, black 20m, yellow 10m, green 10m, red 1.6m, black 1.6m each 1 (total 6)		
Auxiliary ground rods	4 * φ 10mm×150mm		
USB interface	With USB interface, software monitoring, stored data can be uploaded to the computer, saved and printed; one 1.5m long communi cation line		
Alarm function	When the measured value exceeds the alarm setting value, alarm prompt "beep-beep-beep--"		
Auto power off	Auto power off after 15 minutes		
Overload protection	Measuring ground resistance: AC 280V/3 seconds between each port of C(H)-E, P(S)-ES		
Interference test	Automatically identify the interference signal, and the "NOISE" symbol indicates when the interference voltage is largerthan 5V		
Auxiliary grounding test	With auxiliary grounding resistance value test function, 0.00kΩ ~30kΩ (100R+rC<50kΩ, 100R+rP<50kΩ)		
Protection level	IP65 (with cover closed)		
Battery voltage	When the battery voltage drops to about 7.5Vand show the low battery voltage symbol " ▭+ " , pleasereplace the battery		
Working current	Standby: about 20mA (backlig ht off); turn on the backlight: about 45mA (backlight off 25mA); measurement: about 100mA (backlight off)		
Accessories	Meter: 1; Grounding probe: 4; Test lead: 4; Simple test lead: 2; USB communication cable: 1; CD: 1; Meter bag: 1; Special charger: 1		
Power	DC 7.4V 2600mAh rechargeable lithium battery		
Color	Black +Orange		
LCD size	LCD size 128mm×75mm; LCD display area 124mm×67mm		
Weight	4765kg (including packaging)		
Size	280mm×260mm×160mm		
Standard packing box gross weight	about 6KG		

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Clamp Earth Resistance Tester



6410/6411/6412/6412+

Specification

Model	Range of Resistance (Ω)	Range of Current (A)	Storage Function	Alarm Function
6410	0.010Ω-200Ω	——	99 groups	Yes
6411	0.010Ω-200Ω	0.00mA-30A	99 groups	Yes
6412+	0.010Ω-1200Ω	——	99 groups	Yes
6412	0.010Ω-1200Ω	0.00mA-30A	99 groups	Yes

Ranges and Accuracy

Mode	Range	Resolution	Accuracy
Resistance Range	0.010Ω-0.099Ω	0.001Ω	±(1%rdg+0.01Ω)
	0.10Ω-0.99Ω	0.01Ω	±(1%rdg+0.01Ω)
	1.0Ω-49.9Ω	0.1Ω	±(1%rdg+0.1Ω)
	50.0Ω-99.5Ω	0.5Ω	±(1.5%rdg+0.5Ω)
	100Ω-199Ω	1Ω	±(2%rdg+1Ω)
	200Ω-395Ω	5Ω	±(5%rdg+5Ω)
	400Ω-590Ω	10Ω	±(10%rdg+10Ω)
	600Ω-1200Ω	20Ω	±(20%rdg+20Ω)
Current Range	0.00mA -9.95mA	0.05mA	±(2.5%rdg+1mA)
	10.0mA -99.9mA	0.1mA	±(2.5%rdg+5mA)
	100mA -299mA	1mA	±(2.5%rdg+10mA)
	0.30A-2.99A	0.01A	±(2.5%rdg+0.1A)
	3.0A-9.9A	0.1 A	±(2.5%rdg+0.3A)
	10.0A-19.9A	0.1 A	±(2.5%rdg+0.5A)
	20.0A-30.0A	0.1 A	±(3%rdg+1A)

Technical Specifications

Power supply	DC6V, No.5 alkaline dry battery (LR61.5V × 4)
Work environment	-10℃-55℃
Relative humidity	10%-90%
liquid crystal display	4-digit LCD number, 47 × 28.5mm
Clamp gauge quality	Approximately 860g (including battery)
Clamp gauge size	275mm×97mm×56mm
Protection level	Double insulation
Structural	Jaw method
Range shifting	automatic
External magnetic field	<40A/m
External electric field	<1V/m
Single measurement	0.5 seconds
Resistance frequency	>1KHz
Resistance resolution	0.001Ω
Resistance range	0.01Ω-1200Ω
***Current range**	0.00mA-30.0A
Tested current	50/60Hz
Store data	99 groups
Resistance alarm value	1-199Ω
***Current alarm critical value**	1-499mA

Note: "*" is only applicable to 6411/6412

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New Model



140

VICTOR 140 Clamp Leaker Function Measurement Of AC Leakage Current, AC Current And On-Line AC Current Four Bits LCD Display

VICTOR140 High Accuracy Clamp Leaker could be used for AC Line current measurement and on-line current measurement with voltage lower than
AC600V; it also have those functions as peaking holding, data holding and data storage; with convenient use, it is an essential tool for electrician safety testing.

Technical data

Model	140
Function	AC leakage current, AC current, online AC current
Power	AAA*2 batteries
Range	0.00mA~300.0A
Accuracy	0~60A: ± 1.5% rdg ± 5dgt 60A~300A: ± 2% rdg ± 5dgt
Resolution	10uA
Jaw size	35 * 40mm
Instrument size	180 * 72 * 32mm
Instrument quality	Approximately 200g (including battery)
Testing method	Clamp CT, integral method
Display mode	4-digit LCD display
LCD size	35 * 21.5mm display field: 32 * 15mm
Sampling rate	About 2 times/second
Frequency	50Hz, 60Hz automatic recognition
Shift	Fully automatic switching
Line voltage	Testing of AC600V and below circuits
Data storage	99 groups
Peak maintenance	Long press hold to display peak value without letting go
Data retention	“DH” symbol display
Overflow display	"OL" symbol display
Automatic shutdown	Automatically shut down after 5 minutes of startup
Battery voltage	When the battery voltage is below 2.8V
Working current	5mA
Work environment	0 ℃~40 ℃; Below 80% RH
Storage environment	-10 ℃~60 ℃; Below 70% RH
Insulation strength	AC2kV/rms (between iron core and box)
Safety regulations	IEC1010-1, IEC1010-2-032, Pollution level 2, CAT III (600V)

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VICTOR 140B AC Leakage Current Clamp Meter AC100A With 0.01mA Resolution DC/AC600V 27mm Clamp Size Clamp Rechargeable Battery

140B



Alternating current (ACA)

Range	Accuracy	Resolution	Overload protection
60.00mA	±(1.5%+5)	0.01mA	60A
600.0mA	±(1.5%+5)	0.1mA	60A
6.000A	±(1.5%+5)	0.001A	60A
60.00A	±(1.5%+5)	0.01A	60A
100.0A	±(2.0%+5)	0.1A	100A

True RMS measurement of alternating voltage (ACV)

Range	Accuracy	Resolution	Input impedance	Overload protection
6.000V	±(0.8%+3)	0.001V	10MΩ	600Vmax
60.00V	±(0.8%+3)	0.01V	10MΩ	600Vmax
600.0V	±(0.8%+3)	0.1V	10MΩ	600Vmax

Direct Current Voltage (DCV)

Range	Accuracy	Resolution	Input impedance	Overload protection
600.0mV	±(0.5%+3)	0.1mV	10MΩ	600Vmax
6.000V	±(0.5%+3)	0.001V	10MΩ	600Vmax
60.00V	±(0.5%+3)	0.01V	10MΩ	600Vmax
600.0V	±(0.5%+3)	0.1V	10MΩ	600Vmax

General Characteristics

Characteristic	Explanation
Display mode	Liquid crystal display
Maximum display	5999 (3 5/6)
Sampling rate	Three times per second
Low voltage prompt	Battery symbol display
Beyond range	Display OL
Operating environment	0 to 40˚C, <75%RH
Storage environment	-10 to 50˚C, <80%RH
Jaw size	Diameter: 27mm
Alarm indicator light	Yes
Type-c charging	Yes
Data retention	Yes
Max/min	YEs
Automatic shutdown	About 15 minutes
Power supply	3.7V lithium battery
"Size"	166 * 67.5 * 26 mm
Weight	About 162g

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140D

New Product Victor 140D Digital AC/DC Clamp Leaker High Precision Anti -interference Fully Auto Gear Shit Electrical Meter

The instrument has data retention, data storage and other functions. It is equipped with USB interface, communication line and monitoring software. It can be online real-time monitoring and historical query through the computer,dynamic display, maximum, minimum, average value indication, alarm value setting and alarm indication Functions, with historical data reading,saving, printing and other functions.

Technical data

Model	140D
Jaw size	16mm×18mm
Instrument size	215mm×61mm×32mm
Function	Automobile DC dark current, leakage current, etc., other AC and DC current, leakage current measurement
Power supply	Zinc-manganese dry battery 6F22 9V
Test method	Clamp CT, non-contact measurement
Measuring range	0mA ～ 60.0A AC/DC
Resolution	1mA AC/DC
Precision	±2%rdg±5dgt (23℃±5℃, below 75%rh)
Display mode	4-digit LCD display
LCD size	35mm×21.5mm; display area: 32mm×15mm
Sampling rate	2 times/sec
Frequency response	AC: 45Hz ～ 400Hz
Polarity indication	Automatically recognize when DC current is detected, display "-"
Wire position	The detected wire is in the center of the jaws
Shift	Fully automatic switching
Line voltage	600V and below line test
USB interface	Stored data can be uploaded to the computer, saved and printed
Communication parameters	Baud rate 9600, data bit 8, stop bit 1, parity bit NONE
data storage	99 groups, flashing "FULL" symbol indicates that the storage is full
Data retention	Data retention function: "DH" symbol display
Overflow display	Over-range overflow function: "OL A" symbol display
Automatic shut-down	After 5 minutes of power-on, the meter will automatically shut down to reduce battery consumption
Battery voltage	When the battery voltage drops to 7.2V, the battery voltage low symbol is displayed, reminding to replace the battery
Instrument quality	220g (including battery)
Working current	Max 20mA
Working temperature and humidity	-10℃～50℃; below 80%rh
Limit temperature error	-10℃～0℃ and 40℃～50℃, the error will increase by 2%rdg
Storage temperature and humidity	-10℃～60℃; below 70%rh
Dielectric strength	AC 3700V/rms (between core and box)

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VICTOR 140A 0–60A High Accuracy Clamp Leaker With RS232 Small Clamp Size AC Line And on-line current measurement lower than AC600V



140A

This High Accuracy Clamp Leaker obtains one RS232 interface. With the help of the software that we provide, many functions are
available. For example, on-line monitoring, historical data inquiry,active curve drawing, indication of max, min and average
value, alarm setting and indication. There are also functions like saving to documents and printing when connected to PC.

This High Accuracy Clamp Leaker could be used for AC Line current measurement and on-line current measurement with voltage lower
than AC600V; it also have those functions as peaking holding, data holding and data storage; with convenient use, it is an
essential tool for electrician safety testing.

Technical data

Model	140A
Measure Range	0.000mA~60.00A
Resolution	1uA
Clamp Dimension	25X30mm
Function	Measurement of AC leakage current, AC current and on-line measurement
Power	Zn-Mn dry battery,6F22,9V
Test Mode	Clip-on CT，integral mode
Display Mode	Four digits LCD display
Dimension	Width × Height× Thickness：175mm×70mm×38mm
LCD Dimension	35mm×21.5mm；display domain：32mm×15mm
Sampling Rate	about 2 times/s
Frequency	50/60Hz Automatically
Range Shift	Automatically
Accuracy	0.00 ～ 60.00A: ±1.5%±5dgt
Voltage Range	AC600V
RS232 Interface	Data stored in the memory of the meter via RS232 upload to PC, or on-line monitoring
Storage	99units，all used when display FULL
Peak Hold	Push HOLD without release, the meter will show the peak value during the pushing period
Reading Hold	DH indicating the reading is hold
Out of Range	OL indicating the current is out of range
Auto Power-off	5 Minutes after power on, it will power off automatically to lower the power consumption
Battery Voltage	Indicating the battery voltage is lower then 7.2V.Then the battery have to be changed
Weight	120g（including the battery）
Consumption	About 5mW
Temperature	Working: 0℃～40℃,below 80%rh
and Humidity	Storage: -10℃～60℃,below 70%rh
Insulating Strength	AC2kV/rms (between the alloy of the clamp and the housing)
Applicable Safety Rules	IEC1010-1、IEC1010-2-032、pollution, etc 2、CAT Ⅲ(600V)

EMC
LVD CE

Ground Resistance Tester

Technical data



6415



6415A

Model	6415	6415A
Features	Bench top	Box top
Function	Grounding resistance, soil resistivity, DC resistance, grounding voltage, AC current, leakage current measurement	
Range	Two-three-four-wire grounding resistance measurement: 0.00Ω~30.00kΩ	
	Grounding resistance measurement by selection method: 0.00Ω～3000Ω	
	Double-clamp method grounding resistance measurement: 0.01～100Ω	
	Grounding voltage: AC0.0V～100.0V	
	Soil resistivity: 0.00Ωm～9000kΩm	
	AC current: AC 0.00mA～600.0A	
Measurement mode	Precision four-wire, three-wire method, simple two-wire, selection method, double- clamp method to measure grounding resistance	
Measurement method	Two-three-four-wire method measurement: pole-changing method, test current 20mA Max	
	Selection method measurement: pole changing method, test current 20mA Max	
	Double clamp method: non-contact mutual inductance	
	measurement method, test current 1mA Max	
	Soil resistivity: quadrupole method (Wenner method)	
	DC resistance: pole changing method	
	AC current: average value rectification (clamp)	
	Grounding voltage average value rectification (between P(S)-ES interface)	
Backlight	Controllable white screen backlight, suitable for use in dark places	
Display	4-digit large LCD display with backlight	
Measurement indication	LED flashing indication during measurement, LCD countdown display	
Measurement time	AC current: about 2 times/second; grounding voltage: about 2 times/second; grounding resistance: about 7 seconds/time	
Measurement frequency	more than 5000 times (short circuit test, test once, stop for 30 seconds and test again)	
Line voltage	measurement below AC 600V	
Communication interface	With RS232 interface, the stored data can be uploaded to the computer through the software	
Data storage	2000 groups	
Overload protection	Measuring ground resistance: AC 280V/3 seconds between each port of C(H)-E, P(S)-ES	
Insulation resistance	above 20MΩ (500V between circuit and case)	
Withstand voltage	AC 3700V/rms (between circuit and case)	
Power supply	DC 9V (6 pcs R14S 1.5V zinc-manganese dry battery , continuous standby for 300 hours)	DC 8.4V (rechargeable battery, continuous standby for 300 hours)
Accessories	Meter: 1; Grounding probe: 4; Test lead: 4; Simple test lead: 2; USB communication cable: 1; CD: 1; Meter bag: 1; Special charger: 1	
Standard test lines	red 20m, black 20m, yellow 10m, green 10m each	
Auxiliary ground rods	4φ 10mm×150mm	
Simple test lines	red 1.6m, black 1.6m each	
Communication line	RS232 communication line 1, length 1.5m	
Current clamp	blue and black plugs, red and black plugs each	
Current clamp size	185mm×115mm×43mm	
Current clamp diameter	φ68mm	
Power	DC 7.4V 2600mAh rechargeable lithium battery	
Current clamp lead length	2m	
Color	Black + Orange	
LCD size	128mm×75mm; display area: 124mm×67mm	
Weight	1232g	2560g
Size	215mm×190mm×95mm	280mm×260mm×160mm
Standard inner packing	Neutral kraft carton	

EMC
LVD CE

Double Clamp Digital Phase Meter/ Surface Resistance Tester

VICTOR®

4000

Technical data

Basic error and function under basic condition

Target	Measure range	Resolving power	Basic error
Voltage	20V	0.01V	±(1.2%rdg+2dgt)
	200V	0.1V	
	500V	1V	
Current	200mA	0.1mA	±(1.0%rdg+2dgt)
	2A	1mA	
	10A	10mA	
Phase	0~360°	1°	±3°

Basic Condition and Work condition

Target	Basic condition	Work condition	Remark
Environment Temperature	23℃ ±1℃	-10℃~40℃	
Environment Humidity	40%~60%	<85%	
Function wave	Sine wave	Sine wave	β=0.05
Function frequency	50Hz±1Hz	45Hz~65Hz	
Work Voltage	9V±0.1V	9V±1V	
External electric field、magnetic field	Must avoid		
Place of measured lead	At the approximate geomtric center of the jam		

Standard accessories

Instrument box	1
Current clamp	2
Test leads	4 (2 red and 2 black)
Battery	6 (Alkalescence dry battery: 1.5V AA)
Instruction	1



385+

Surface Resistance Tester

Specifications	385+
Resistance range	103~1010Ω
Resistance error	± one order of magnitude
temperature range	0~50℃（32~122℉）
Temperature accuracy	±2℃/±3.6℉
Working temperature	0~40℃（32~104℉）
Storage temperature	0~60℃（32~140℉）
Relative humidity	0~70% RH (non condensing)
Backlight	√
Power Supply	9V 6F22 battery
Automatic shutdown	About 5 minutes
Size	131*65*35mm
Weight	About 180g



EMC
LVD CE TÜV SÜD ISO 9001

H/L Voltage Clamp Meter

9000



Basic Function		
Function	**Range**	**Accuracy**
AC voltage	0.1mA~299mA	±1%+3dgt
	0.30A~49.9A	±1.5%+5dgt
	50.0A~199.9A	±2%+5dgt
	200A~600A	±3%+5dgt
	601A~1000A	±4%+5dgt

Special Function	
Function	High and low voltage AC current test, creepage test, AC current monitoring online
Power	DC6V alkalescence dry battery (1.5V AAA×4) Auto power off
Display mode	4 bit LCD display, backlight function, suit for dark place
Product size	76mm×255mm×31mm
Clamp size	Φ 48mm
Sampling rate	About 2 times/s
Shift	0.1mA~1000A auto shift (test rate 50/60Hz)
Data hold	99 Data hold
Circuit voltage	Under 23KV can test circuit voltage (use insulating rod)
Weight	Resting benc:about 335g(include battery),total weight:about 2.5Kg(include insulating rod and battery)
Working temperature and humidity	-10℃~40℃； under 80%RH
Store temperature and humidity	-10℃~60℃； under 70%RH
Insulating rod size	Φ 32mm, 1m/each batter (5battery)
Insulating strength	AC 40kV/rms (between insulating rod and the clamp

9000B



Special Function	
Function	High Voltage ACA Test Low Voltage ACA Test Leakage Current Test Online ACA Monitoring
Power	6V Battery（1.5V AAA×4）
Ways of Measuring	Clamp ShapeCT. Integration
Transmission	Wireless transmissionLine transfer max. distance : Approx. 30m
Display Mode	4 digitsLCD Display，Backlight Function Suitable for dusky occasions.
LCD Size	47mm×28.5mm
Product Size	76mm×255mm×31mm
Clamp Size	φ48mm
Sampling Rate	Approx.2times/s
Measuring Range	0.1mA~1000A（50/60Hz Automatically）
Resolution	0.1mA
Gear Shift	0.1mA~1000AFull automaticgear shift
Accuracy (Below23℃±5, 80%RH)	0.1mA~299mA: ±1%±3dgt
	0.30A~9.99A: ±1.5%±5dgt
	10.0A~199.9A: ±2%±5dgt
	200A~399A: ±2.5%±5dgt
	400A~600A: ±3%±5dgt
	601A~1000A: ±4%±5dgt
Line Voltage	Linetest below60KV
Data Storage	99 setsof datacan be stored in the process"MEM"sign indication "FULL"twinkling sign indicates memory full
PEAKHold	√
Data Hold	√
Data Scan	√
Overflow Indication	√
No Sign Indication	√
Auto Power Off	√
Low Battery Indication	√
Operation Temperature	-25℃~40℃； below80%Rh
Storage Temperature	-10℃~60℃； below70%Rh
Insulating Bar Size	φ32mm，1m per node（five nodes）
Insulating Strength	AC 100kV/rms(Between the fifth insulating bar andhigh voltage current clamp chip
Structure	Leak-Proof II

EMC
LVD CE

VICTOR®

Technical parameters(1010M Lux Meter)

Characteristic	Explanation
Liquid crystal display	4-digit LCD display
Range	0-199,999 lux; 0~19999FC
Precision	±4%(color temperature 2856K standard flat lamp correction); ±(6%+5Lux) Other visible light sources
Resolution	Lux: < 200,0.1 Lux; ≥200,1Lux;FC: < 20,0.01 FC; < 200,0.1 FC; > 200, 1 FC
Cosine Angle	30 °, plus or minus 2%; 60 °, plus or minus 6%;
Deviation feature	80 °, plus or minus 25%
Max/min	Square root
Automatic shutdown	15 minutes
Data retention	Square root
Backlit display	Square root
Data storage	The maximum record is 50
Working environment	0 ~ 40°C
Storage environment	- 20 ~ 60°C
Power supply	One 9V battery
Sampling rate	Two times per second
Spectral range	320~730nm
Types of sensors	Silicon photovoltaic cell
Size	165*54*32mm
Weight	About 133g



1010M

Technical parameters(824M Sound Level Meter)

Characteristic	Explanation
Measurement range	30~130dBA
Accuracy	± 1.5 dB
Frequency response	31.5 Hz ~ 8.5 kHz
Dynamic range	50dB
Weighted characteristic	Characteristic A
Digital display	Five-digit number, resolution 0.1dB
Dynamic characteristics	Fast/Slow
Microphone	1/2-inch condenser microphone
Maximum value	MAX
Power supply	9V battery
Fuselage weight	About 110g
Body size	162*52*44mm



824M

Technical parameters(816M Anemometer)

Unit	Range	Resolution	Start testing	Accuracy
m/s	0~45	0.1	0.3	±3% ±0.1dgts
ft/min	0~8800	19	60	±3% ±10dgts
knots/h	0~88	0.2	0.6	±3% ±0.1dgts
km/h	0~140	0.3	1	±3% ±0.1dgts
mph/h	0~100	0.2	0.7	±3% ±0.1dgts

Wind temperature measurement

Unit	Range	Start testing	Accuracy
°C	0°C~45°C	0.2	±2°C
°F	32°F~113°F	0.36	±3.6°F



816M

EMC
LVD CE TÜV SÜD ISO 9001

Digital Tachometer



6234P



6235P



6236P

Technical data

Model	6234P	6235P	6236P
Size	5 digitslarge LCD display	5 digitslarge LCD display	5 digitslarge LCD display
Measuring range	/	Contact rev:1.0~19999RPM	Contact rev:1.0~19999RPM
	/	Surface Speed (m/min):1.0~1999.9RPM	Surface Speed (m/min): 1.0~1999.9RPM
	Contact rev:2.5~99999RPM	/	Contact rev:2.5~99999RPM
Resolution	Contact rev:0.1RPM	Contact rev:0.1RPM	Contact rev:0.1RPM
	Surface Speed (m/min):0.01m/min	Surface Speed (m/min):0.01m/min	Surface Speed (m/min):0.01m/min
Accuracy	±0.05%+1	±0.05%+1	±0.05%+1
Max. Display	40000	40000	40000
Time Base	4MHz quartz crystal	4MHz quartz crystal	4MHz quartz crystal
Power	4×1.5VAA(UM-3)	4×1.5VAA(UM-3)	4×1.5VAA(UM-3)
Dimension	Approx: 157×64×31mm	Approx: 174×64×31mm	Approx: 195×64×31mm
Weight	Approx: 125g	Approx: 110g	Approx: 200g



6237P
6238P

Model	6237P	6238P
Measuring Range	60～19999RPM/FPM	60～39999RPM/FPM
RPM: Round Per Minute	FPM: Flash Per Minute	
Coarse/Fine Adjust Knob Range	<1000RPM hours Coarse Adjust Knob:10RPM/FPM Fine Adjust Knob:0.1RPM/FPM	<1000RPM hours Coarse Adjust Knob: 100RPM/FPM Fine Adjust Knob:1RPM/FPM
	≥1000RPM hours Coarse Adjust Knob:100RPM/FPM Fine Adjust Knob:1RPM/FPM	
Accuracy	0.05%	
Resolution	<1000RPM：0.1RPM/FPM ≥1000RPM:1RPM/FPM	
TimeBase	10MHz	
Display	5 DigitsLCD Backlight	
Max. Display	19999	
Power Supply	4×1.5V AA(UM-3)battery	
Product Size	195×73×38mm	
Weight	Approx. 200g	

EMC
LVD CE

Sound Level Meter



824



824C

Sound level meter

Basic function	824	824C
Measuring range	30~130dBA; 35~130dBC	30~130dBA
Accuracy	±1.5dB	±1.5dB
Digit&Resolution	5 digits & 0.1dB	4 digits & 0.1dB
Frequency response	31.5Hz~8.5kHz	31.5Hz~8.5kHz
Measuring level	30~130, 40~90, 50~100, 60~110, 80~130	
Frequency weighting characteristic	A & C	
Time weighting	FAST/ SLOW	
Sampling rate	2 times/second	2 times/second
Microphone	1/2 inch polarization capacitance microphone	1/2 inch polarization capacitance microphone
AC/DC output	√	
Max reading	√	√
Barcode indicate the value	√	
Overload indication	OVER/UNDER	
Low battery indication	√	
Power	1.5V AA 4pcs or DC 6V 100mA adapter	9V battery 1pcs or DC 6V 100mA adapter
Dimension	256×70×35mm	52.5×133.5×35.5mm
Weight	308g (including battery)	144g (including battery)

EMC
LVD CE



834BW

VICTOR 834BW Digital Sound Level Meter with Bluetooth /WiFi wall mounting type

Technical data

Basic Function	834BW
Measuring range	30dB~130dB
Accuracy	±1.5dB
Frequency response	31.5Hz~8.5KHz
Frequency weighting	A Rights
Response time	FAST(fast), about 1 second, 2times
Sensor Type	6mm capacitor microphone sensor
Resolving power	0.1dB(< 100dB);1dB(>100dB)
Alarm prompt	Voice+Display
Refresh rate	2 times per second
Power supply method	DC5V/2A
Work environment	0~40℃; 10% ~80% RH
Storage environment	-10~60℃; 10% ~70% RH
Display method	3 digit digital tube display
Display size	4-inch single word
Product size	323*173*40mm
Product weight	Approximately 1038g
Attachment	Instructions,certificate of conformity,adapter, adapter, suspension, suspension screws

EMC
LVD CE

Digital Light Meter



1010D+



1010DL

Technical data

Model	1010D+ (General) 1010DL (Bluetooth)
Lcd	4-bit LCD
Illumination range	0~199999LUX; 0~19999FC
Illumination accuracy	± 4% (corrected by standard flat lamp with color temperature of 2856K);
Resolution	± (6%~5Lux) other visible light sources Lux:<200,0.1Lux; ≥200,1Lux; FC:<20,0.01FC;< 200,0.1FC;> 200,1FC
Cosine angle Deviation characteristics	30°,±2%; 60°,±6%;80°,±25%
Max/Min	√
Automatic shutdown	10 minutes (cancelable)
Relative value	√
Data retention	√
Work environment	0~40 ℃ (<90% RH non condensing)
Storage environment	-20~60 ℃(<75%RH)
Power Supply	9V battery
Sampling rate	2 times/second
Spectral range	320~730nm
Sensor type	silicon photocell
Size	154*60*31mm
Weight	About 185g (including battery)

EMC
LVD CE

Bluetooth



816



816B



816BL

Anemometer

Basic function	816	816B/816BL
Measurement items	Air velocity, Air temperature	Air velocity, Air temperature
Range of air velocity	0~30m/s, 0~90km/h, 0~5860ft/min, 0~55knots, 0~65mph	0~45m/s, 0~140km/hr, 0~8800ft/min, 0~88knots, 0~100mph
Accuracy of air velocity	±5%	±3%
Range of air temperature	-10~45℃， 14~113℉	0~45℃， 32~113℉
Accuracy of air temperature	±2℃	±2℃
Resolution	0.2℃; 0.2m/s	0.2℃; 0.2m/s
Max/Average/Current air velocity reading	√	√
℃/℉ Selection	√	√
Wind chill indication	√	√
Beauford Scale	√	√
Auto/Manual power off	14 minutes without any operation	√
Low battery indication	√	√
LCD Backlight	12 seconds active by press any key	LCD Backlight ON/OFF selection
Power	CR2032 3.0V	3 1.5V batteries 7 #(LR03)
Dimension	105×40×18.5mm	816B/BL: Host:149*59*30mm Fan blade: 176*59*30mm
Net weight	52g (including battery)	251g(816B) 270g(816BL)



230DW

Model	230DW	
Power supply	DC5V / 2A	
Sensor type	High precision digital sensor	
Sampling rate	One times/2s	
Ambient temperature	Temperature	-20℃~60℃
	Accuracy	±1.0℃
	Resolution	0.1°C
Relative humidity	Range	0~100%RH
	Accuracy	±4%RH
	Resolution	0~99(0.1)%RH 100(1)%RH
Temperature alarm range	Hi	-19℃~60℃
	Low	-20℃~59℃
Humidity alarm range	Hi	2~99%RH
	Low	1~98%RH
WiFi	Yes	
Alarm function	Voice+display alarm, alarm value can be set	
Display	Nixie tube display; Display size: 1.8-inch single word	
Max Display	Temperature 60 0; Humidity 99% RH	
Over range	Display "Hi" or "Lo" at the highest position	
Size	323* 173*40mm	
Weight	About 700g	

EMC
LVD CE

Thermometer Series



230



230A



330



6801

Basic Function		230	230A	330
Function	Sensor Inside	√	√	√
	External Temperature Probe		√	
Temperature Measuring Range	(0~50) ℃/ (32~120) ℉	√	√	√
Temperature Range of External Probe	(-2~70) ℃/ (-4~158) ℉		√	
Humidity Range	(20%~90%) RH		√	
	(30%~90%) RH	√		√
Temperature Accuracy	±1.0℃ (1.8℉)	√	√	√
Humidity Accuracy	±5% (40%~80%) Others ±8%	√	√	√
Temperature Resolution Display	0.1℃ (0.1℉)	√	√	√
Special Function				
Temperature/Humidity Display		√	√	√
Temperature ℃/℉ switch		√	√	√
Alarm Clock		√	√	√
12 /24 hours system clock		√	√	√
Alarm On Schedule		√	√	√
Calendar Display		√	√	√
Maximum / Minimum Temperature And Humidity Memory		√	√	√
Battery		AAA 1.5V	AAA 1.5V	AAA 1.5V
Product Size		95x105x17mm	95x105x17mm	110x59x16mm

Note: 230 and 230A can't be tested for industry use, The test results are just for reference.

6801			
Basic function			
Function	Resolution	Range	Basic accuracy
1℃	1℃	-50-1000℃	±(0.3%+2℃)
1℃	1℃	1000-1300℃	±(0.5%+2℃)
1℉	1℉	-238-1000℉	±(0.3%+2℉)
1℉	1℉	1000-2372℉	±(0.5%+3℉)
Special function			
Unit symbol display	√		
Max. display	10000 (3 1/2 digital LCD with max. reading of 1999)		
Sample rate	2.5 times/s		
Storage environment / relative humidity	Temperature 0℃-50℃ (32℉-122℉), relative humidity < 80%		
Over range indication	The MSD "1" or "-1" displays		
Measuring method	TP01 K-type temperature probe		
Measuring range	-50-1300℃/ -58-1999℉		
Dimension	149*71*35mm		
Weight	200g		
Power	2*1.5V AAA		

New Model



231/231A

Model	231 (Normal model) 231A (Bluetooth model)
LCD	4-digit LCD display
Temperature range	-25℃~75℃(-13℉~167℉)
Humidity range	0~99.9%RH
Temperature accuracy	±0.3℃(15~40℃)Other ±1℃
Humidity Accuracy	±3%RH(30~80%RH)Other ±4%RH
Temperature resolution	0.1℃
Humidity resolution	0.1%RH
Temperature max/ Min/Alarm	√
Humidity max/	√
Min/Alarm	
Data retention	√
Working environment	0~40℃(<90%RH non-condensing)
Storage environment	-20~60℃(<75%RH)
Power supply	3 1.5V batteries (7#) or USB Type-C power supply
Sampling rate	1 time/second
Shell material	ABS
Size	169*56*32mm
Weight	About 150g (including battery)

EMC
LVD CE

Thermal Imaging Camera



320/320M



320B

Multilingual

USB transfer/ charging

°C/°F/ K

Unit conversion

Photo/Video

Automatic shut-down

Temperature alarm

8 pseudo-colors

Emissivity adjustable

Technical indicators

Basic skills		320M	320	320B
IR thermal imaging	Resolution	120x90	120x90	256x192
	Resolution after super-resolution	240x180	240x180	120x90
	Working band	8~14um		
	Frame rate	25Hz		
	NETD	60mK@25℃		
	Field of view	38°x50°		55.6°x42°
	Lens	2.3mm F1.1		
	Scope	-20~400℃		
	Precision	±3℃or ±3% of reading		
	Emissivity	0.01 to 1.00 adjustable		
	Support point	Full screen maximum/minimum/center/area temperature measurement		
	Swatches	Iron Red, White Hot, Black Hot, Rainbow, Red Hot, High Contrast, Green Hot, Lava		
Visible light	Resolution	720P		
	Field of view	55°X83°		
Image display	Image mode	Edge blending, overlay blending, picture-in-picture, single IR, single visible light		
Storage	Capacity	8G built-in memory, can store more than 20,000 pictures		
	Image storage format	JPG		
	Video format	MP4		

Basic parameters	
language	Chinese (Simplified), Chinese (Traditional), English, French, German, Spanish, Dutch, Japanese, Korean, Arabic
Power supply	Built-in 2600mAh large capacity rechargeable battery
Display size	2.8 inches
Body color	Black
Body weight	About 310g
Dimensions	70*80*200mm
Standard accessories	USB Type-C data cable, GB charging head, lanyard, manual
Standard inner packaging	Color box
Package size	50*45*34cm

EMC LVD CE

Thermal Image Camera



328A/328B

Mobile thermal image camera

Parameter	328A	328B
Resolution	160*120	256*192
Working wavelength	8~14μm	
Frame rate	25Hz	
NETD	< 50mK @26℃	
Field of view	35°*27°	56°*42°
Lens	3.2mm	
Measuring range	-15℃~600℃	
Precision	±2℃or ±2%	
Temperature measurement	The highest point, the lowest point, the center point temperature and the regional temperature measurement	
Swatches	6	
Universal		
Language	Chinese /English	
Operating temperature	-10℃~ 75℃	
Storage temperature	-45℃~ 85℃	
Water proof	IP54	
Product Size	34mm X 26.5mm X 15mm	
Product weight	19g	

EMC
LVD CE

Thermal Image Camera





328M **328B Pro**

Android8.0+、iOS12+ systems ***New Model***

VICTOR 328M 25Hz high frame rate design adopts a 96x96 pixel resolution Infrared Thermal Imager

Infrared thermal imaging

Model	328M	328B Pro
Detector type	Vanadium oxide micro-thermoluminescence detector	
Infrared resolution	96x96	256x192
TISR	192x192	512x384
Pixel size	12μm	
Focal length	1.35mm	3.5mm
Focus adjustment method	No focusing required	
Field of view	50°x50°	50°x37.2°
Spatial resolution	8.89mrad	3.43mrad
Working frequency band	8~14μm	
NETD	≤60mK @25℃	≤40mK @25℃
Frame rate	25Hz	
Language	10 language options	
Scope	Normal: -20℃ to 150°C; Automatic:-20℃ to 550℃; High temperature: 100℃ to 550°C	
Precision	±2℃ or ±2% of the reading	
Distance	0.3~3m	
Mode	Industrial temperature measurement	
Display	Center point, highest temperature, lowest temperature	

EMC
LVD CE



VICTOR 328C Mobile TELEPHOTO INFRARED THERMAL IMAGER 10mm lens focus 256*192 resolution with GPS positioning

Widely used in fields such as underfloor heating leak detection, electricalmaintenance, and more suitable for outdoor long-distance plain use(such as camping exploration, wilderness survival/rescue, night running and hiking, animal observation).

Technical data

Basic Function	328C
Resolving power	256x192
Working wavelength	8~14μM
Frame rate	25Hz
NETD	<50mK@25°C
FOV	17.5°x 13.2°
Focal length	10mm
Focus Mode	Fixed focus
Electronic ampilfication	1x-4x stepless amplification (through screen gestures)
Color palette	Iron Red, Rainbow, White Heat, Black Heat, Cold Blue, Red Heat
Hotspot tracking	√
GPS	Can be displayed in the app
Eleetronic compass	Can be displayed in the app
Screen rotation	√
Photograph	√
Videotape	√
Language	Chinese, English
Working temperature	-20℃~60℃
Storage temperature	-40℃~85℃
Waterproof and dustproof	IP54
Source	Used in conjunction with mobile phones, plug and play
Display Size	No display screen, used in conjunction with mobile apps
Body size	36x29.5x27.5mm
Parts	Storage bag, bracket, data extension cable, manual

EMC
LVD CE

328D/328E



VICTOR 328D/328E infrared thermal imager visible light digital camera with 640x480 auxiliary imaging,excellent imaging effect

•LCD display:maximum display 4000, word height 15mm
•General characteristics: Maximum voltage between voltage inputterminal and ground CAT II 600V.
•Display method:LCD display, with a maximum reading of 4000
•Measurement principle: Double integral A/D conversion, automatic range
•Measurement rate:3 times/second
•Unit display : with functions and display of unit symbols for electricity consumption

Technical data

Basic Function	328D	328E
Resolving power	160×120	256×192
Working wavelength	8~14μm	
Frame rate	25Hz	
NETD	<50mK @25℃	
Lens	3.2mm	
Field of view angle	56°×42°	35°×27°
Range	-15℃ ~ 600℃	
Accuracy	±2℃ or±2%ofreading	
Visible Ight		
Resolving power	640×480	
Frame rate	25Hz	
Software functions [APP]		
Temperature measurement	High and low temperature tracking, center point, point, area,and line temperature measurement, temperature range viewing	
Image display mode	Visible light mode, multiple visible light and infrared fusion modes, single infrared mode display.	
Temperature quick check	Supports one click quick access to high temperature areas.	
Interval display	√	
Real timne fipping	√	
Image color palette	Iron Red, White Heat, Black Heat, Rainbow, Red Heat, Cold Blue	
Photograph	√	
Videotape	√	
Image editing	Supports image graffiti and text notes	
Set up	Parameter configuration, temperature units, language, and high temperature alarm setings.	
Software functions [APP]		
Working temperature	-10℃~ 75℃	
Storage temperature	-45℃~ 85℃	
Protect	IP54	
Body weight	22g	
Body size	51.6mm×34mm×13.2mm	

EMC
LVD CE

Thermal Imaging Camera



350



350A

Technical indicators

Basic skills		350	350A
Infrared Thermal Imaging	Resolution	384x288	640x512
	Work	8~14um	
	Frame rate	25Hz	
	NETD	＜40mK@25°C (77°C)	
	Field of view	17.46°×13.14°	
	Camera shot	15mm (standard) 19mm (optional) 25mm (optional)	25mm (standard) 19mm (optional) 35mm (optional)
	Scope	-20°C ~ 1200°C	
	Precision	±2°C or ±2%	
	Measurement	Highest, lowest, center and point, line, frame	
	Palette	Cinnabar, rainbow, high contrast rainbow, white heat, black heat, Arctic, lava	
Visible light	Resolution	8 million pixels	
	Field of view	D=90°	
Image display	Screen size	4.3-inch touch screen	
	Image mode	Thermal imaging, visible light, edge fusion, overlay fusion, picture-in-picture	
	Image optimization	TISO VIEW Image Enhancement Set	
General	Language	English, French, Spanish, Portuguese, German, Russian, Arabic, Japanese, Korean, Chinese (Simplified), Chinese (Traditional)	
	Digital amplification	Infinite zooming	
	Correction	Target distance, environmental temperature, relative humidity, reflection temperature	
	WiFi	Support and provide an APP for real-time image transmission	
	Bluetooth	Yes	
	Interface	USB Type-C, HDMI Support	
	Analysis software	Yes	
	APP	Yes	
	Laser indication	Yes	
	Laser ranging	40m	
	LED	Yes	
	Buzzer	Yes	
	Battery	Removable 5000mAh lithium battery	
	Working hours	Available for 5 hours when fully charged	
Storage	Capacity	Built-in 32G EMMC storage, which can be expanded to 256G	
Record	Take a photo	Yes	
	Screen capture	Yes	
	Video recording	Yes	
Physical properties	Working temperature	-10°C~+60°C	
	Storage temperature	-40°C~+85°C	

EMC
LVD CE

Handheld Thermal Imager

New Model



321/321Pro

Model	321	321Pro
Sensor type	Vanadium oxide (VOx) micrometer radiometer	
Infrared resolution	96 * 96	
Response band	8 ~ 14 microns	
Pixel size	12 microns	
Focal length	The 1.35 mm	
Spatial resolution	8.89 mrad	
Frame rate	25Hz	
Thermal sensitivity	≤60 mK(@25 °C,F#1.0)	
Focusing method	No focusing required	
Field of view	50°× 50°	
Temperature range	- 20 °C ~ 550°C	
Temperature accuracy	±2°C or ±2% of the reading is taken as the larger value	
Temperature resolution	0.1 °C	
Temperature unit	°C/°F/K	
Temperature display	Center point, highest point, lowest point	
Pseudo-color	White-hot/black-hot/Rainbow/iron-red/red-hot/fusion	
Image mode	NO	Infrared, visible light, fusion, picture-in-picture
Visible light	NO	Two million
LED lighting lamp	NO	Yes
Image/video format	JPEG/MP4	
Temperature analysis	PC analysis tool	
TISR	Yes, resolution: 240*240	
WLAN	NO	Optional
Language	Supports 10 languages	
Storage	External SD card	
Data interface	Type-C	
Power supply	Non-detachable 2000mAh	Non-detachable 3200mAh
Charging time	≤4h	
Overall machine power	≤0.9W	≤1.4W
Working hours	≥9h	
Working environment	-10 to 50℃, 10% to 90%RH, non-condensing	
IP rating	IP54	
Fall	1.5 m	
Certification	CE, FCC, ROHS	
Fuselage weight	310g	
Body size	225 mm * 70 mm * 86.44 mm	

EMC
LVD



302R

Technical parameters

Non-metallic		Metal	
Material	Emissivity value	Material	Emissivity value
Asbestos	0.95	aluminum	0.02-0.40
Asphalt	0.95	Brass	0.01-0.50
Carborundum	0.90	chromium	0.02
Ceramic	0.95	copper	0.03-0.10
Concrete	0.95	gold	0.01-0.10
cloth	0.95	iron	0.05-0.95
"Glass"	0.85	lead	0.05-0.6
"Pebble"	0.95	magnesium	0.02-0.10
ice	0.95	mercury	0.05-0.15
Paint	0.92	Nickel-copper-gold	0.10-0.14
Rubber	0.95	nickel	0.05-0.15
Lime	0.98	silver	0.02
Plastic is opaque.	0.95	tin	0.05
snow	0.90	tungsten	0.03-0.10
Soil	0.92	steel	0.10-0.90
water	0.93	titanium	0.05-0.20
sand	0.90	zinc	0.10
Wood	0.93	Alumina	0.02-0.30

Main Function	302R		
Temperature range	-32~380℃(-25.6~716℉)	Working temperature	10~30℃
Measurement error	±2℃ or ±2%	Size	143*93*37mm
Accuracy	0.1℃/℉	Power supply	AA*2
Power consumption	≤50mw	Net weight	105g
Test time	500ms	Backlight lamp	Yes
Automatic shutdown	15s	Emissivity	0.1~1.00 Adjustable
Storage environment	-10~40℃/≤90%RH	Measurement distance	D:S=12:1

EMC
LVD CE



303B



302B

Technical data

Main function	303B	302B
Temperature Range	--20℃~550℃(-4℉~1022℉)	--32℃~380℃(-25.6℉~716℉)
Resolution	0.1℃/0.1℉	0.1℃/0.1℉
Accuracy	±2.0℃ or ±2%	±2.0℃ or ±2%
Display unit	℃/℉	℃/℉
Auto power off	√	√
Back light	√	√
Data Hold	√	√
Distance Spot Ratio	12:1	12:1
Emissivity	0.1~1.0 adjustable	0.1~1.0 adjustable
Size	97*43*160 mm	93*37*143mm
Weight	130g	105g
Power	9V battery	1.5V*2 battery

EMC
LVD CE

Model	306B	307C
Range	(-50~700)℃ (-58~1292)℉	(-20~800)℃ (-4~1472)℉
Precision	(-50~0)℃ ±3℃ (0~100)℃ ±1.5℃ (100~-700)℃ ±1.5%	(-20~0)℃ ±3℃ (0~100)℃ ±1.5℃ (100~-800)℃ ±1.5%
Emissvity adjustable	0.10~1.00 adjustable (preset 0.95)	
LCD display resolution	0.1℃/1℉	
Dual range display	√	
max/min	√	
DifferencelAverage	√	
High/low temperature alarm	√	
°C/°F selection	√	
L aser can be turned off	√	
display hold	√	
Backlit display	√	
Automatic shut-down	√	
low battery indicator	√	
Spectral response	8um~14um	
L aser power	Output < 1mw, wavelength 630~670nm, class2(I	
Power supply	9V battery (NEDA1604/6F22 or equivalent)	
Basic size	97mmx43mmx 160mm	
Weight	125g (without battery)	



306B/307C

Model	308D	310C
Temperature Range	-30℃~1150℃(-22℉~2102℉)	-20℃~1650℃
Max. Display	4 digits LCD Display	4 digits LCD Display
Resolution	0.1℃/0.1℉	0.1℃/0.1℉
Accuracy	±1.5% or ±1.5℃	±1.5% or ±1.5℃
Display Unit	℃/℉	℃/℉
Auto Power Off	√	√
Backlight	√	√
Response Time(90%)	0.5s	0.5s
D:S	50:1	50:1
Emissivity	0.1~1.00 Adjustable	0.1~1.00 Adjustable
Operation Temperature	0℃~50℃	0℃~50℃
Size	141×60×200mm	141×60×200mm
Weight	270g	270g
Standard Inner Package	Color Box	Color Box
Power	9V Battery	9V Battery



308D/310C

EMC
LVD CE

Infrared Thermometer



304D



304F



304E

Technical parameter

Main Function	304D	304E	304F
Measuring temperature range	-50°C~400°C (-58°F~752°F)	-50°C~600°C (-58°F~1112°F)	-50°C~900°C (-58°F~1652°F)
Measurement accuracy	-50°C~0°C (-58°F~32°F): ±3°C (±5°F) 0°C~900°C (32°F~1652°F): ±1.5%rdg (1.5%) whichever is greater		
Repeatability	1%rdg or 1°C whichever is greater		
Reaction time	About 0.5s, 95% response		
Infrared wavelength	5-14 μ m		
Object distance ratio	12:1		
No operation shutdown time	About 7s		
Low battery prompt	<2.4V battery symbol display		
Overload indication	LCD display "Hi"/"Lo"		
Working environment upper/lower limit	LCD display "AH"/ " AL"		
Ambient working temperature	0 ~40°C (32 ~ 104°F)		
Ambient storage temperature	-10-60°C (14-140°F)		
Power supply	1.5V AAA*2 battery		

EMC
LVD CE

Handheld Vibrometer



63/63A/63B

Technical data

Model	63	63A	63B
Characteristic	Simple structure: convenient operation: integrated design. Just need to align the instrument probe with the measured object and press the measurement key to measure.	The front end of the sensor is equipped with a long probe; It is convenient to measure the equipment vibration in a narrow space. The sensor and display adopt separate structure to facilitate the measurement of different angles and spaces.	The sensor uses a high-strength magnet to adsorb on the measured object, which can collect the vibration signal more accurately. The sensor and display adopt separate structure to facilitate the measurement of different angles and spaces
Measuring range			
Vibration displacement (P-P)	0~1999um	0~1000um	0~1999um
Vibration velocity (RMS)	0~199.9mm/s	0~71 mm/s	0~199.9mm/s
Vibration acceleration (O-P)	0~199.9m/s²		0~199.9m/s²
Frequency response			
Acceleration	10Hz~1kHz		10Hz~1kHz
Speed	10Hz~500Hz	12Hz~500Hz	10Hz~500Hz
Displacement	10Hz~200Hz	12Hz~200Hz	10Hz~200Hz
Basic Function			
Measurement Accuracy	±10%		
Ambient Temperature	0~40°C		
Relative Humidity	≤80%		
Atmospheric Pressure	75~106Kpa		
Other Function			
Low Voltage Indication	If the battery voltage is lower than 5.5V, the low voltage prompt is displayed		
Data Retention Time	After releasing the measurement key, the data is held for 1 minute		
Indication Fluctuation	The indication fluctuation shall not be greater than one resolution		
Basic parameters			
Power Supply	9V		
Display Size	50*13mm		
Fuselage Size	185*68*30mm		
Fuselage Weight	160g(Including battery)		

EMC LVD CE

Handheld Vibrometer



63+ 63B+

New Model

VICTOR 63+ /63B+ Vibration Meter 0~1999um Pocketsize Measure The Displacement, Velocity And Acceleration Of The Objects Electric Power

Technical data

Model		63+ 63B+
Measurement range	Vibration displacement	0-1999 μm
	Vibration velocity	0-199.9 mm/s
	Vibration acceleration	0-199.9 m/s2
Amplitade measurement error	Displacement	10-500 Hz, ≤ ±5%± 2 digits
	Speed	10-1500 Hz, ≤ ±5% ± 2 digits
	Acceleration	10-1500 Hz, ≤ ±5% ± 2 digits
Data storage		Yes, up to 5 groups
Data playback		Yes
Data retention		Yes, the measured data can remain for about 45 seconds.
USB communication		Yes
Battery low voltage indication		Yes
Indicator value fluctuation		The indication fluctuation is no more than one resolution.
Operating environment		0-40℃,80%-100%, and 75- 106 kPa.
Power supply		One 9V battery.
Display screen size		2.4-inch color screen
Body weight		200g
Body size		198*66*30mm

EMC LVD CE

Three Phase Indicator
Phase Detector



850/850A



850C/850D

Technical data

Basic Function / Feature	850	850A
Product feature	Contact way by LED and buzzer	
Function	Check the state of open phase and phase sequence	
Voltage range	200~480V	200~600V
Time limit	480V AC:4min	600V AC:2min
	<200V AC： 30min	
Measuring frequency range	20-400Hz	
Withstand voltage	2000V/min	4000V/min
Test cable length	1m	
Product dimension	100*64*23mm	
Weight	129g	
Batteries	Without the use of batteries	

Technical data

Basic function	850C	850D
Vised wire size	Outer diameter ø1.6mm-ø16mm	Outer diameter ø10mm-ø40mm
Power supply	DC 3V (AA/LR6*2 alkaline dry batteries, continuously working for 70 hours)	
Performance-guarantee range	AC70-1000V, 45-65Hz (sine wave continuously input)	
LED display	【Positive Phase Sequence】 The four phase-sequence lamps blink in order (clockwise)	
	【Negative Phase Sequence】 The four phase-sequence lamps blink in order (counterclockwise).	
	【Line-voltage Indication】L1、L2、L3 lamp light up	
	【Default Phase】L1/L2/L3 lamp is off	
	【Open Circuit】L1/L2/L3 lamp is off	
Buzzer	【Positive Phase Sequence】The buzzer sounds intermittently	
	【Negative Phase Sequence 】The buzzer sounds continuously	
Power indication	POWER indicator light up after turn on; LOW BATTERY lamp light up if the battery needs to be replaced	
Magnetic force	Instrument base plate is provided with four magnets, suction hanging in the electrical box, can withstand 800g quality	
Auto Power off	The power will be turned off automatically if the instrument remains idle for 5 minutes after the power is turned on	
Clamp lead wire length	0.6m	
Dimension	70W×75H×30D (mm)	
Weight	About 200g (including batteries)	
Max. rated voltage	AC 1000V	
Dielectric strength	5.4kVrms	
Max. rated power	300mVA	
Accessories	Batteries LR6: 2pcs bag: 1pc rope: 1pc	

EMC
LVD CE

Wire Tracker



668A

Technical data

Line search (SCAN)	Find out the desired cable from a large number of cables.
Cable proofreading (TEST)	Fast measurement of open circuit, short circuit, sequence.
Line voltage test (VOLT)	Measuring the working voltage and positive or negative of phone line.
Continuity test (OHM)	Checking the phone which is under open circuit or short circuit. (Phone line isn't connected to any live equipment)
Torch function	Super bright and white light torch function
Adjustable sensitivity	The volume can be adjusted according to your need when using it.
Headset function	In noisy occasions, headphones can be worn to work.
Frequency conversion of line signal	You can set different frequencies to find lines.
Weak current-turn on test	Can be connected to the Phone line / Ethernet switch/ Router/ Line hunting when the PC terminal is power on. The measured voltage should not exceed 48V.

ELECTRIC STATIC CHARACTERSTIC

Current transmit current≤45mA, receive current≤100mA
Battery receiver 9V battery; transmitter AA 1.5V battery *3
Transmission distance of hunting line ≥3km
Safety safe to use (the probe can directly contact the exposed metal wire)

Technical indicators

Hunting line function	√
Paired function	√
Continuity test of short circuit	√
Line voltage	√
Sensitivity adjustable	√
Torch	√
Display	LED light
Distance of hunting line	3 km
Output signal level	Approx 23Vp-p (frequency adjustable)
Other function	Energy saving design, sensitivity adjustable, low voltage detection, headset function.
Packing	Color box ; tool bag

EMC
LVD CE

Wood Moisture Tester
Specification 2GA



2GA

Sensor: Resistance(conductivity measurement)moisture humidity sensor, temperature sensor
Parameter: % humidity(wood or building material) °C/°F temperature
Measuring range: See section "Instrument operation"
resolution: 0.1%,1°C. Max. error(at 25°C,±1digit)
moisture test %: ±2%; temperature test: ±2℃
Measurement rate: 0.5 seconds
Protection class: IP 20
Ambient temperature: (- 10 - 50)℃ 20-50%RH
Storage temperature: (- 40 -70)℃ 20-50%RH
Power supply: 1 section 6F22 9V battery
Weight: About150g (including battery and protective cover)
EC Directive: 2004/108/EEC

Adjustable material Measurement range (weight ratio)

Adjustable paper type	Characteristic curve
beech, spruce, larch, birch, cherry, walnut	8.8-54.8%
Oak, pine, maple, gray trees, Douglas fir, Eucalyptus urophylla	7.0-47.9%
Cement mortar layer, Concrete	0.9-22.1%
Anhydrous gypsum mortar layer	0.0-11.0%
Cement mortar	0.7-8.6%
Lime mortar, gypsum	0.6-8.6%
Brick	0.1-16.5%

Paper Moisture Tester
Specification 2GB



2GB

Products Feature
Double Injection Case, stylish and solid.
3 species of trees intelligent selection to avoid self-calculation of users.
Wide Range: 5%~40%.
Self-calibrating makes the operation simple.
LCD digital display makes the reading clear and straight.

General Characters	2GB
Display	2 digits LCD Display with 15mm-high figure
Resolution	1%
Range	5%~40%;Accuracy:±1%rdg+1d
Power	9V(6F22)

EMC
LVD CE

Mini Digital Torque Wrench



NGM-10

Mini Digital Torque Wrench

The mini digital wrench is designed in a miniaturized shape and is more suitable for the operation in a narrow space. Meanwhile, it has complete operating functions including torque setting function, unit setting function, numerical value storage function, numerical value eliminating function, numerical value output function and user correction function. It is easy to operate. The mini digital torque wrench is provided with the digital display screen, so that the requirement on operators is reduced. The mini digital torque wrench is suitable for fastening and controlling bolts in automobile industry, machinery industry, etc.

Function features

1. It has a large screen and has the backlight function.
2. The clockwise accuracy is ±2%, and the counterclockwise accuracy is 2.5% (20% to 100% of the full measuring range).
3. It can be operated both in the clockwise direction and the counterclockwise direction.
4. The buzzer and the LED indicator are triggered when reaching a preset torque value (peak-limited mode).
5. It has four engineering units (N.m, kgf.cm, lbf.ft lbf.in).
6. It has three measuring modes, i.e. real-time mode, peak mode and preset mode.
7. It has 999 sets of storable record values.
8. It can be automatically powered off in 5 minutes.

Technical data

Model	NGM-10	NGM-30	NGM-60	NGM-100
Minimum division value	0.01			0.1
Maximum operating range(N.m)	10N.m/7.37lbf.ft/88.50lbf.in/101.97kgf.cm	30N.m/22.12lbf.ft/265.5lbf.in/305.91kgf.cm	60N.m/44.25lbf.ft/531.04lbf.in/611.82kgf.cm	100N.m/73.7lbf.ft/885.0lbf.in/1019.7kgf.cm
Connector(inches)	1/4		3/8	1/2
Setting range of buzzer(N.m)	0.3~10	0.9~30	1.8~60	3~100
Length (mm)	230		240	285
Accuracy*1	Clockwise: ±2% Counterclockwise: ±2.5%			
Data storage capacity	999			
Operating mode	Peak mode(P)/ Real-time mode(T)/ Preset mode(Pre)			
Unit	N.m, kgf.cm, lbf.ft, lbf.in			
Form of ratchet head	Bidirectional ratchet head			
Number of ratchet teeth	72 teeth			
Number of keys	5			
Battery	Two AAA batteries			
Operating temperature	-10℃ to 60℃			
Storage temperature	-20℃ to 70℃			
Test falling height	one meter			
Vibration test condition*2	10G			
Service life test*3	10000 times			

EMC
LVD CE

Laser Distance Meter

VICTOR®

Technical parameter

Model	842A Pro 843A Pro	842B Pro 843B Pro	842C Pro 843C Pro
Scope	0.05~50m	0.05~70m	0.05~100m
Precision	±(2mm+d*1/10000)		
Incline range	+ 90 °		
Angular accuracy	Plus or minus 1 °		
Continuous measurement	Yes		
Area/Volume/Wall area	Yes		
Hook stock measurement	Yes		
Angle measurement and height measurement	Yes		
Addition and subtraction measurement	Yes		
Area/volume addition/subtraction	Yes		
Maximum/minimum value	Yes		
Self-service calibration	Yes		
Voice broadcast	Yes		
Laser grade	Class II		
Laser type	630-670nm, <1mW		
Measure the working time of the battery	≥5500 times (single measurement)		
The number of stored record entries	100 strokes		
Automatically cut off the laser	20 seconds (single measurement)		
Automatic shutdown	No operation for 150 seconds		
Tape measure range	2m		
The minimum scale of the tape measure	1mm		
Tape measure unit	Single-sided metric and imperial system		
Tape width	The 9.0 mm		
Thickness of the tape	The 0.1 mm		
Material of ruler tape	65 manganese steel		
Precision of ruler tape	±1mm		
Power supply	3.7V 600mAh built-in lithium battery		
Display screen size	2.2-inch black-and-white screen		
Body color	Black + orange		
Body size	118x54x26mm		
Standard accessories	Cloth bag, Type-C cable, lanyard, instruction manual, certificate of conformity		
Laser Distance Parameters	**843A Pro**	**843B Pro**	**843C Pro**
Laser wavelength for line projection	630-670nm		
Laser grade for line projection	II		
Line power	<1mW @10cm		
The working distance of the wire casting	5m (<300Lux)		
Line width	≤3mm (5m)		
The battery working time of the input line	5 hours (continuous		
Automatic shutdown	30 minutes		

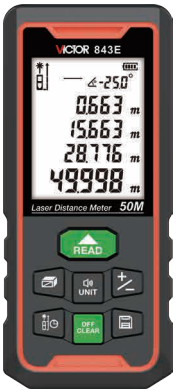


842A/B/C Pro



843A/B/C Pro

EMC
LVD CE



843E/F/G



843E Pro

843F Pro

843G Pro

Technical parameter

Model	843E	843F	843G	843E Pro	843F Pro	843G Pro
Measurement range	50m	70m	100m	50m	70m	100m
Measurement accuracy	± (3mm+d* one ten-thousandth)			±(2mm+dx1/10000)		
Continuous measurement	Yes					
Area volume	Yes					
Hook stock measurement	Yes					
Addition and subtraction measurement	Yes					
Addition or subtraction of area and volume	Yes					
Maximum/minimum value	Yes					
Self-calibration function	Yes					
Voice broadcast	Yes					
Delay measurement setting	Yes					
Backlight	Yes					
Laser grade	II					
Laser type	500-535 Nm, < 1mW			500-800nm , <1mW		
Measurement reference setting	Front-end benchmark, mid-end benchmark, and end-end benchmark					
Store record data	99 transactions			100units		
Automatically cut off the laser	20 seconds			20s(Changeable)		
Automatic shutdown	150 seconds			120s(Changeable)		
Inclinometer measurement range	±90 °					
Power supply	1.5V 3*AAA battery or 3.7V 850mAh lithium battery					
Display screen size	43*35mm			2.0" IPS color screen		
Body color	Black + orange					
Fuselage weight	Approximately 132g					
Body size	118*52*27mm			118*54*26mm		
Laser Distance Parameters	**843E Pro**		**843F Pro**		**843G Pro**	
Wavelength	500-535nm					
Laser Class	II					
Laser Line Power	<1mW @10cm					
Working Distance	10m (<300Lux)					
Line Width	≤3mm (5m)					
Battery Working Time	3.5 hours (continuous use)					
Auto-off	30 minutes (laser level working time, Unselectable)					
Tape Parameters	**843E Pro**		**843F Pro**		**843G Pro**	
Measuring Range	2m					
Minimum Scale	1mm					
Unit	Single-sided Metric & Imperial System					
Tape Width	9.0mm					
Tape Thickness	0.1mm					
Tape Material	65 manganese steel (black characters on yellow background)					

EMC
LVD CE

Digital Refractometer



2GHS

Product specifications

Project	2GHS
Measuring range	0.0-55% Brix
Graduation value	0.5Brix/0.1 ℃
Precision	±0.5Brix/1 ℃
Use environment	10-80℃
Sample volume	≥0.2ml(3-5) drop
Measure time	≈3S
Power supply	2 AAA alkaline batteries
Battery Life	≈2000 times

Accessories

NO.	Product description	Quantity
1	Digital refractometer	1
2	AAA alkaline battery	2
3	Instruction manual	1
4	Glasses cloth	2
5	Waterproof rubber mat	1
6	Phillips screwdriver	1
7	dropper	2
8	Cross recessed pan head tapping screw M1.9*5	4
9	Carton Size	52.5*27.2*25cm
10	QTY/Carton	16
11	G.W/Carton	6.3kg

EMC
LVD CE

152S

50MHz



VICTOR 152S Handle Digital Oscilloscope

Victor 152S Manufactory New Designed 50mhz Handle Digital Oscilloscope

Oscilloscope parameters

Characteristic		Describe
Bandwidth	50MHz	Dual channel
Sampling	Way	Real-time sampling
	Sampling rate	280MSa/s
Number of channels	2	Dual channel
Input	Input Coupling	DC, AC
	Input impedance	1MΩ,@ 16pf
	Probe Attenuation	x1,x10,x100
	Maximum input voltage	X1 gear<150V, x10 gear<300V
Level	Sampling rate range	1.5MSa/s
	Waveform interpolation	(sinx)x
	Scanning speed range	10ns/div~20s/div
	Time base accuracy	20ppm
	Record length	Up to 128Kbyte
Vertical	Sensitivity	20mV/div~10V/div
	Displacement range	4 grids (positive and negative)
	Analog bandwidth	50MHz
	low-frequency response	Greater than 10Hz
	Rise time	Less than 10ns
	DC gain accuracy	±3%
Measure	Automatic measurement	Cycle, frequency, peak to peak value, maximum value, minimum value, root mean square, duty cycle, average value
Trigger	Trigger Mode	Automatic, normal, single time
	Trigger Edge	Rising edge, falling edge
Signal generator output		Sine wave, square wave, triangular wave, half wave, full wave, sawtooth wave
Display mode		YT、XY
Afterglow mode		Minimum, 500ms, 1S, 10S, Unlimited

Output of probe compensator

Characteristic	Describe
Output voltage (typical)	3Vpp, high impedance
Frequency (typical)	Square wave 1kHz (± 1%)

Outline specification

Characteristic	Describe	Accuracy
Display type	3.2-inch color LCD display	
Resolution	320*240	
Power supply	3.7V 2200mAh rechargeable lithium battery	
Work environment	0℃~40℃	
Relative humidity	<80%	
Product size	181*89*40mm	
Product weight	About 380g (excluding battery)	

EMC
LVD CE

Multimeter parameters

Features	Range	Accuracy
DC voltage (mV)	25.000mV/250.00mV	±(0.05%+5)
DC voltage (V)	2.5000V/25.000V/250.00V/1000.0V	±(0.1%+10)
DC current	25.000mA/250.00mA/2.5000A/10.000A	±(0.5%+10)
AC voltage (mV)	25.000mV/250.00mV	±(0.1%+8)
AC voltage (V)	2.5000V/25.000V/250.00V/750.0V	±(0.5%+10)
AC current (mA)	25.000mA/250.00mA	±(0.5%+10)
AC current (A)	2.5000A/10.000A	±(0.8%+10)
Resistance	250.00Ω/2.5000kΩ/25.000kΩ/250.00kΩ/ 2.5000MΩ/25.000MΩ/250.0MΩ	±(1.0%+10)
Capacitance	9.999nF/99.99nF/999.9nF/9.999μF/ 99.99μF/999.9μF/9.999mF/99.99mF	±(2.0%+10)
Frequency	99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz	±(0.1%+2)
On-off	The buzzer sounds for a long time	
Diode tube	Open circuit voltage is about 3.2V	
Digital display	25000 readings/capacitance (9999 readings)	

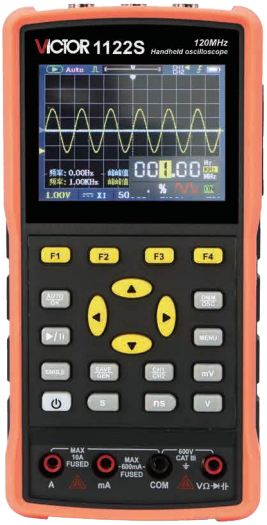
Signal generator parameters

Function	Describe		
Frequency	Sine wave	1Hz~5MHz	
	Square wave	1Hz~2MHz	
	Triangular wave	1Hz~2MHz	
	Half-wave	1Hz~2MHz	
	Full wave	1Hz~2MHz	
	Sawtooth wave	1Hz~500kHz	
Sampling rate		200MSa/s	
Amplitude		0.3Vpp~3Vpp	0.3Vpp~2.8Vpp
(50 Ω)	Sine wave	1Hz~3.999999MHz	1Hz~5MHz
	Square wave	1Hz~2MHz	1Hz~2MHz
	Triangular wave	1Hz~1.7MHz	1Hz~2MHz
	Half-wave	1Hz~2MHz	1Hz~2MHz
	Full wave	1Hz~1.7MHz	1Hz~2MHz
	Sawtooth wave	1Hz~300kHz	1Hz~500kHz
DC offset range		0	
Frequency resolution		1Hz	
Thoroughfare		1	
Waveform length		256Byte	
Vertical Resolution		8bit	
Output Impedance		50Ω	

EMC
LVD

1122S

120MHz



VICTOR 1122S 120MHz Dual Channel 6000 Counts Display Handheld Oscilloscope and Multimeter Signal Generator 3 in 1

Oscilloscope parameters

Characteristic		Describe
Bandwidth	120MHz	Dual-channel
Sampling	Sampling method	Real-time sampling
	Sampling rate	250MSa/s
Passage	2	Dual-channel
Input	Input coupling	Direct current, alternating current
	Input impedance	1 m Ω
	Probe attenuation	x1, x10, x100
	Maximum input voltage	x1 gear <40V, x10 gear <400V(DC+AC peak)
"Level"	Sampling rate range	1KSa/s~250MSa/s
	Scanning speed range	5ns/div~10s/div
	Record length	Up to 128K
Vertical	Sensitivity	X1:10mV/div~10V/div; X10:100mV/div~100V/div
	Displacement range	Six squares (positive or negative)
	Analog bandwidth	120MHz(single CH1) 60MHz(CH1+CH2)
	Rising time	<3ns
	Dc gain accuracy	±2%
Measurement	Automatic measurement	Frequency, peak-to-peak value, average value, effective value, amplitude, duty cycle, positive pulse width, negative pulse width, period, maximum value, minimum value, top value, bottom value, negative duty cycle
	Trigger method	Automatic, normal, single time
	Trigger edge	Rising edge, falling edge
Bandwidth limitation		20MHz/ Full bandwidth
Display mode		YT, XY, scroll
Afterglow mode		Nothing, 1 second, infinity
One-click automatic		Only CH1 is supported

Output of probe compensator

Characteristic	Describe
Output voltage (typical)	3V Vpp, (±0.1V)
Frequency (typical)	Square wave 1kHz

EMC LVD CE

Outline specification

Characteristic	Explanation
Display type	3.2-inch color LCD display
Resolution	320*240 65,536 colors
Language	Chinese/English
Power supply	Type-c (5V/2A)
Battery	3.7V 2000mAh rechargeable lithium battery
Working	0 °C to 40 °C
Storage	-20°C ~60°C; < 80%
Product size	181*89*40mm
Product weight	About 380g

Multimeter parameters

Features	Range	Accuracy
DCV	600.0mV/6.000V/60.00V/600.0V	±(0.5%+3)
ACV	600.0mV/6.000V/60.00V/600.0V	±(1.0%+3)
DCA	600.0mA/10.00A	±(2%+5)
ACA	600.0mA/10.00A	±(3%+5)
Resistance	600.0Ω	±(1.5%+3)
	6.000kΩ/60.00kΩ/600.0kΩ	±(1%+3)
	6.000MΩ	±(1.5%+5)
	60.00MΩ	±(3%+3)
Capacitor	60.00nF/600.0nF/6.000μF	±(5%+5)
	60.00μF/600.0μF/6000μF	±(10%+5)
On/off	The buzzer makes a long sound	
Diode	0.0 V to 3.3 V	
Digital display	6000 reading	

Signal generator parameters

Characteristics		Explanation
Frequency characteristic	Sine wave	1Hz~5MHz
	Fang Bo	1Hz~1MHz
	Triangle/sawtooth	1Hz~1MHz
	Noise wave	1Hz~1MHz
	Half-wave/full-wave	1Hz~1MHz
	Sinc waveform	1Hz~1MHz
Sampling rate		150MSa/s
Output amplitude		3V(±0.1V)
Passage		1
Waveform length		256Byte
Output impedance		100Ω

EMC LVD CE



240/240S



270/270S



2102/2102S



2202/2202S

Technical data

Basic skills	240/240S	270/270S	2102/2102S	2202/2202S
Bandwidth	40 MHz	70 MHz	100 MHz	200 MHz
Real-time sampling rate	125 MSa/s (Dual channel)	250 MSa/s (Single channel)	250 MSa/s (Dual channel) 500 MSa/s (Single channel)	1 GSa/s
Aisle	2			
Sampling method	Normal, peak sampling			
Sampling Rate	125 MSa/s (dual channel), 250 MSa/s (single channel)			
Record length	When single channel: 8K maximum, when dual channel: 4K			
Wave refresh	10,000 wfms/s			
Input coupling	DC, AC, ground			
Input impedance	1 MΩ±2%, in parallel with 16pF±10 pF			
Probe coefficient	1X、10X、100X、1000X			
Max input voltage	400V (DC+AC peak value)			
Time base range	5ns/div-1000s/div, step by 1-2-5			
Vertical sensitivity	10mV/div~10V/div			
Vertical resolution	8bit			
Cursor	Voltage difference (△V), time difference (△T)			
Auto measurement	Period, frequency, amplitude, peak-to-peak, max, min, average			
Trigger type	Edge trigger			
Trigger method	Automatic, normal, single			

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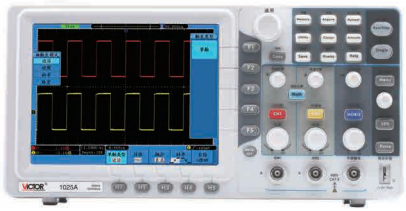
Basic skills	Range	Accuracy
DC voltage	200.00mV	±(0.05%+5dig)
	2.0000V/20.000V/200.00V	±(0.3%+3dig)
	1000.0V	±(0.5%+2dig)
AC voltage	200.00mV/2.0000V/20.000V/200.00V	±(0.8%+5dig)
	750.0V	±(1%+5dig)
DC current	200.00mA	±(0.8%+2dig)
	10.000A	±(2.5%+2dig)
AC current	200.00mA	±(1%+5dig)
	10.000A	±(2.8%+5dig)
Resistance	200.00Ω/2.0000kΩ/20.000kΩ/200.00kΩ/2.0000MΩ	±(0.8%+3dig)
	20.000MΩ	±(1%+3dig)
	100.00MΩ	±(3%+3dig)
Capacitance	20.000nF/200.00nF/2.0000μF/20.000μF/200.00μF/2.0000mF	±(3.0%+10dig)
Continuity test	√ (<50Ω)	
Diode test	√(<0-2V)	
Auto range	√	
True effective value	√	

Signal generator function 240S/270S/2102S		
Frequency characteristics	Sine wave	0.1Hz~25MHz
	Rectangular wave	0.1Hz~5MHz
	Sawtooth wave	0.1Hz~1MHz
	Pulse wave	0.1Hz~5MHz
	Arbitrary wave	0.1Hz~
Sampling Rate	125MSa/s	
Amplitude (50Ω)	0.01Vpp ~ 2.5Vpp	
Aisle	1	
Wave length	8k	
Vertical resolution	14 bit	
Output impedance	50 Ω	

Basic parameters	
Power	2200mAh*2（3.7V，18650）
Display size	3.5-inch color LCD display
Body color	Black+orange
Body weight	About 0.6KG (without battery)
Dimensions	198 mm × 96mm ×38 mm
Accessories	Power adapter, USB cable, alligator clip cable (2 S type), test lead, probe calibration tool, manual

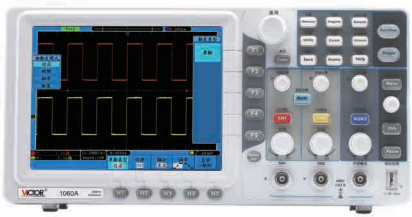
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LVD CE

Bench-Type Oscilloscope



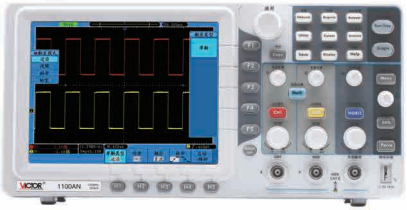
1025A

Basic function	1025A
Bandwidth	30MHz
Real-time sampling rate	500MS/s
Rise time	≤11ns
Record Length	10K pts
Channel	2 channels +external trigger
Display	8 inches TFT 65535 color LCD, 800*600 pixels
Interval time	Single: ±(1 sample interval time + 100ppm × reading + 0.6ns), • 16 average: ±(1 sample interval time + 100ppm × reading + 0.4ns)
Input coupling	DC, AC and GND
Input impedance	1 MΩ ± 2%, is in parallel with 10pF ± 5pF
Time base range	4ns/div ~ 100s/div, step from Unary numeral system to binary system and then quanternary.
Vertical sensitivity	5mV/div~10V/div (at the position which input BNC)
Vertical resolution	8 bits (simultaneous sampling of two channels)
Max. input voltage	400V (DC +AC peak value, input impedance of 1MΩ) (10:1 probe attenuation)
Power	100~240V AC RMS, CAT II
Dimension	348mm(length)*170mm(high)*78mm(Width)
Weight	1.5kg (without package)



1060A

Basic function	1060A
Bandwidth	60MHz
Real-time sampling rate	500MS/s
Rise time	≤5.8ns
Record Length	100K pts (10M is optional to update)
Channel	2 channels +external trigger
Display	8 inches TFT 65535 color LCD, 800*600 pixels
Interval time	Single: ±(1 sample interval time + 100ppm × reading + 0.6ns), • 16 average: ±(1 sample interval time + 100ppm × reading + 0.4ns)
Input coupling	DC, AC and GND
Input impedance	1 MΩ ± 2%, is in parallel with 15pF ± 5pF
Time base range	5ns/div ~ 100s/div, step from Unary numeral system to binary system and then quinary.
Vertical sensitivity	2mV/div~10V/div (at the position which input BNC)
Vertical resolution	8 bits (simultaneous sampling of two channels)
Max. input voltage	400V (DC +AC peak value, input impedance of 1MΩ) (10:1 probe attenuation)
Power	100~240V AC RMS, CAT II
Dimension	348mm(length)*170mm(high)*78mm(Width)
Weight	1.5kg (without package)



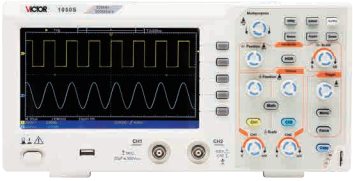
1100AN

Basic function	1100AN
Bandwidth	100MHz
Real-time sampling rate	1GS/s
Rise time	≤3.5ns
Record Length	100K pts (10M is optional to update)
Channel	2 channels +external trigger
Display	8 inches TFT 65535 color LCD, 800*600 pixels
Interval time	Single: ±(1 sample interval time + 100ppm × reading + 0.6ns), • 16 average: ±(1 sample interval time + 100ppm × reading + 0.4ns)
Input coupling	DC, AC and GND
Input impedance	1 MΩ ± 2%, is in parallel with 15pF ± 5pF
Time base range	2ns/div ~ 100s/div, step from Unary numeral system to binary system and then quinary.
Vertical sensitivity	2mV/div~10V/div (at the position which input BNC)
Vertical resolution	8 bits (simultaneous sampling of two channels)
Max. input voltage	400V (DC +AC peak value, input impedance of 1MΩ) (10:1 probe attenuation)
Power	100~240V AC RMS, CAT II
Dimension	348mm(length)*170mm(high)*78mm(Width)
Weight	1.5kg (without package)

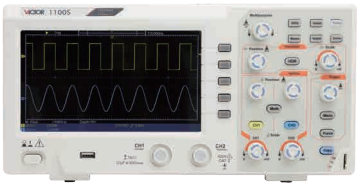
EMC
LVD

Performance Characteristics

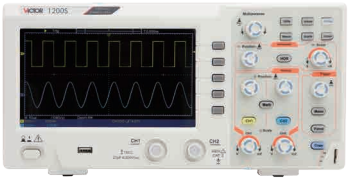
Mode	1200S	1050S	1100S
Bandwidth	200 MHz	50 MHz	100 MHz
Sample Rate(real time)	1single channel；500MS/s; double channel：1GS/s	500MS/s	1 GS/s
Channel	2		
Input coupling	DC, AC , Ground		
Input impedance	1 MΩ±2%, in parallel with 20 pF±5 pF		
Input coupling	1X，10X，100X，1000X		
Max. input voltage	400V (DC+AC, PK - PK)		
Channel-channel isolation	50Hz: 100 : 1； 10MHz: 40 : 1		
Time delay between channel(typical)	150ps		
Bandwidth limit	Not support		20 MHz, full bandwidth
Sampling rate range	0.5 S/s~200 MS/s	0.5 S/s~500 MS/s	0.5 S/s~1 GS/s
Interpolation	(Sinx)/x		
Max Record length	10K		
Scanning speed (S/div)	5ns/div-1000s/div,step by 1-2-5≤3.5ns	2 ns/div – 1000 s/div, step by 1 – 2 - 5	
Sampling rate / relay time accuracy	±100 ppm		
Interval(△T) accuracy (DC - 100MHz)	Single：±(1 interval time+100 ppm×reading+0.6 ns); Average>16：±(1 interval time +100 ppm×reading+0.4 ns)		
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)		
Sensitivity	5 mV/div ～ 5 V/div		
Displacement	±2 V (5 mV/div – 100 mV/div)±50 V (200 mV/div – 5 V/div)		
Analog bandwidth	200MHz	50 MHz	100 MHz
Single bandwidth	Full bandwidth		
Low Frequency	≥10 Hz (at input, AC coupling, -3 dB)		
Rise time (at input, Typical)	≤ 17.5 ns	≤ 7.0 ns	≤ 3.5 ns
DC gain accuracy	±3%		
DC accuracy (average)	Delta Volts between any two averages of ≥16 waveforms acquired with the same scope setup and ambient conditions (△V): ±(3% reading + 0.05 div)		
Waveform inverted ON/OFF			
Cursor	△V, △T, △T&△V between cursors,		
Automatic	auto cursor Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width,-Pulse Width, +Duty Cycle, -Duty Cycle, Delay A→B, Delay A→B, Cycle RMS, Cursor RMS, Screen Duty, Phase, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area.		
Waveform Math	+, -, *, / ,FFT		
Waveform storage	16 waveforms		
Lissajous figure — Bandwidth	Full bandwidth		
Lissajous figure — Phase difference	±3 degrees		
Communication port	USB 2.0 (USB storage)		
Counter	Support		



1050S



1100S



1200S

Trigger		Instruction
Trigger level range	Internal	±5 div from the screen center
Trigger level Accuracy (typical)	Internal	±0.3 div
Trigger displacement		According to Record length and time base
Trigger Holdoff range		100 ns – 10 s
50% level setting(typical)		Input signal frequency ≥ 50 Hz
Edge trigger	slope	Rising, Falling
Video Trigger	Modulation	Support standard NTSC, PAL and SECAM broadcast systems
	Line number range	1-525 (NTSC) and 1-625 (PAL/SECAM)

EMC LVD CE

Battery Tester

NEW BATTERY TESTERS



3025A **3025B** **3025C**

Technical indicators

Basic skills	3025A	3025B	3025C
Applicable batteries	12 volt and 24 volt lead-acid batteries		
Optional battery standards	CCA: 100-2000		
	IEC: 100-1000		
	EN: 100-1700		
	DIN: 100-1000		
	JIS: To check the table and compare with CCA		
working temperature	(-18~50)°C		
Voltage range	(DC) 9V~35V		
Language	Switching between Chinese and English		
Test method	Four line Kelvin testing method		
Battery voltage display	√		
Battery level ratio display	√		
CCA measurement	√		
Battery life display	√		
Internal resistance detection	√		
Input protection	√		
Source	(DC) 9V~35V		
Display Size	60 x 45mm		
Body color	Black		
Body weight	291g		
Body size	150*85*30mm ; Line length 750mm		
Parts	Instruction manual and certificate of conformity		

EMC
LVD CE

Battery Tester

Function		Range	3012	3013
Cold Cranking Amps	CCA	100~1700	√	
	IEC	100~1000	√	
	EN	100~1700	√	
	DIN	100~1000	√	
Internal resistance		0.00mΩ~99.99 mΩ	√	
Working voltage		9V~18V	√	
Battery status hint			√	
12V Battery test			√	
Starting load test			√	
Charging system test			√	
Overvoltage input protection			√	
Polarity reverse Protection			√	
LCD			√	
LED				√
Cable length			850mm	
Weight			320g	300g



3012



3013

Product name	3015	3025	3026
Applicable battery	12V Storage battery	12V/24V Storage battery	12V Storage battery
Print or not	No	No	Yes
CCA range	100~1700	100~1700	100~1700
Operating temperature	-18~50℃	-18~50℃	-18~50℃
Voltage range	9~18V	9~35V	9~18V
Battery range	30AH-200AH	30AH-200AH	30AH-200AH
Testing method	Kelvin four-terminal sensing		
Battery selection criteria	CCA: 100~1700 IEC: 100~1000 EN: 100~1700 DIN: 100~1000		
Main function	Battery starting test, engine system start load test, huge load system test, charging system test etc.		
Notes	This battery tester is only used for car battery testing measuring voltage range is 12V (12V~24V) Measuring CCA range is 100~1700 Battery range is 30AH-200AH		
	Warning: the below cars of batteries are not allowed to test: electric vehicle, UPS batteries, electric tricycle		



3015/3025



3026

EMC
LVD

Battery Tester



3015A　　3015B　　3015C

3015A	3015B	3015C
6/12V batteries≦20A discharge, 5~80AH test range	6/12V batteries≦80A discharge, 40~200AH test range	6/12V batteries≦80A discharge, 40~200AH test range
The internal resistance of battery will be tested synchronously	The internal resistance of battery will be tested synchronously	The internal resistance of battery will be tested synchronously
Micro-computer strictly control the discharge time, to reduce the battery damage	Micro-computer strictly control the discharge time, to reduce the battery damage	Micro-computer strictly control the discharge time, to reduce the battery damage
Over-temperature, anti-burning and reverse polarity protection	Over-temperature, anti-burning and reverse polarity protection	Over-temperature, anti-burning and reverse polarity protection
The meter will make a judgement automatically since the test finished; sound and light indicate	The meter will make a judgement automatically since the test finished; sound and light indicate	The meter will make a judgement automatically since the test finished; sound and light indicate
Tested reading hold automatically	Tested reading hold automatically	Tested reading hold automatically
Clear and direct-viewing display with four digits	Clear and direct-viewing display with four digits	
Discharge time: less than 10s	Discharge time: less than 10s	Discharge time: less than 10s (for dynamic batteries measuring)
Battery amp hour rating testing range: 5-80AH	Battery amp hour rating testing range: 40~200AH	Battery amp hour rating testing range: 40~200AH
Internal resistance range of battery: 0~99mΩ	Internal resistance range of battery: 0~99mΩ	Internal resistance range of battery: 0~99mΩ
Usable scope: applicable to the dynamical type battery such as the batteries supply for electric bicycle, UPS batteries, solar storage energy batteries	Usable scope: applicable to the dynamical type battery such as the batteries supply for electric bicycle, UPS batteries, solar storage energy batteries	Usable scope: starter battery (car battery) Dynamic accumulator: applicable to the dynamical type battery such as the batteries supply for electric bicycle, UPS batteries, solar storage energy batteries
		Starter battery range: CCA: 100~1700 IEC: 100~1000 EN:100~1700 DIN: 100~1000
		This is a battery tester which contains both testing method of dynamical battery and starter battery

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3003



3005



3005C

MAIN FEATURES

- The LED digital display simultaneously shows the voltage, current and power output by the power supply, and the decimal point is automatically rounded up
- Automatic switching between voltage stabilization and current stabilization
- It is equipped with an output control switch, making the control more flexible
- Overvoltage, overcurrent, overpower, over-temperature and short-circuit protection
- 6 groups of quick parameter storage functions
- With hardware List programmable sequence output
- Four types of power supply in one: ordinary power supply, numerical control power supply, programmable power supply and programmable power supply
- The temperature-controlled fan speed enables the instrument to have low noise and a longer fan lifespan
- The voltage and current values can be pre-designed in the output off state, which is convenient for operation
- One-click keyboard lock to prevent misoperation

Note: The red "●" is only available on 3005C

Technical data

Model		3003	3005	3005C
Output voltage		0~30V	0~30V	0~30V
Output current		0~3A	0~5A	0~5A
Output power		90W	150W	150W
Voltage	Set the resolution	10mV		
	Set accuracy	≤0.1%+5digits		≤0.01%+3digits
	Readback resolution	10mV		
	Readback accuracy	≤0.1%+5digits		≤0.01%+3digits
	Temperature coefficient	≤0.02%+3mV		
	Power supply effect	≤0.01%+3mV		
	Load effect	≤0.01%+2mV		
	Ripple noise	≤8mVrms		
Current	Set the resolution	1mA		
	Set accuracy	≤0.2%+10digits		≤0.1%+3digits
	Readback resolution	1mA		
	Readback accuracy	≤0.2%+10digits		≤0.1%+3digits
	Temperature coefficient	≤0.02%+3mA		
	Power supply effect	≤0.1%+3mA		
	Load effect	≤0.02%+10mA		
	Ripple noise	≤10mArms		
Load regulation rate		≤0.1%Umax+5mV		≤0.01%Umax+2mV
Power regulation rate		≤0.1%Umax+5mV		≤0.01%Umax+2mV
OVP		/		0-31V
OCP		/		0-5.5A
Working voltage		AC220V±10% 50Hz		
Heat dissipation		Air-cooled		
Body size		280(D)×130(W)×165(H)mm		
Weight		4.5KG		

EMC
LVD



3010A



3005AC



3010AC

MAIN FEATURES

- The LED digital display simultaneously shows the voltage, current and power output by the power supply, and the decimal point is automatically rounded up
- Automatic switching between voltage stabilization and current stabilization
- It is equipped with an output control switch, making the control more flexible
- Overvoltage, overcurrent, overpower, over-temperature and short-circuit protection
- 6 groups of quick parameter storage functions
- With hardware List programmable sequence output
- Four types of power supply in one: ordinary power supply, numerical control power supply, programmable power supply and programmable power supply
- The temperature-controlled fan speed enables the instrument to have low noise and a longer fan lifespan
- The voltage and current values can be pre-designed in the output off state, which is convenient for operation
- One-click keyboard lock to prevent misoperation

Note: The red "•" is only available on 3005AC and 3010AC

Technical data

Model		3003A	3005A	3010A	3005AC	3010AC
Output voltage		0~30V	0~30V	0~30V	0~30V	0~30V
Output current		0~3A	0~5A	0~10A	0~5A	0~10A
Output power		90W	150W	300W	150W	300W
Voltage	Set the resolution	10mV				
	Set accuracy	≤0.1%+5digits				
	Readback resolution	10mV				
	Readback accuracy	≤0.1%+5digits				
	Temperature coefficient	≤0.02%+3mV				
	Power supply effect	≤0.2%+1mV			≤0.2%+5mV	
	Load effect	≤0.2%+5mV				
	Ripple noise	≤20mVrms			≤10mVrms	
Current	Set the resolution	1mA				
	Set accuracy	≤0.2%+10digits				
	Readback resolution	1mA				
	Readback accuracy	≤0.2%+10digits				
	Temperature coefficient	≤0.02%+3mA				
	Power supply effect	≤0.1%+5mA				
	Load effect	≤0.1%+5mA				
	Ripple noise	≤15mArms			≤10mArms	
Load regulation rate		≤0.1%Umax+5mV			≤0.01%Umax+2mV	
Power regulation rate		≤0.1%Umax+5mV			≤0.01%Umax+2mV	
OVP		/			0-33V	0-33V
OCP		/			0-5.5A	0-10.5A
Working voltage		AC220V±10% 50Hz				
Heat dissipation		Air-cooled				
Body size		280(D)×130(W)×165(H)mm				
Weight		2.2KG				

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3303



3305

MAIN FEATURES

- LED display, capable of simultaneously showing the output voltage values and current values of each channel
- It has a set of fixed outputs, and three fixed voltage outputs can be switched (5V-3A or 3.3V-3A or 2.5V-3A).
- The two adjustable power supplies can be used in series or parallel, and the voltage or current is tracked by one main power supply
- Automatic switching between voltage stabilization and current stabilization
- It has an output control switch, making the control more flexible
- Overvoltage, overcurrent, over-temperature, short-circuit protection and reverse polarity protection
- Each channel has 3 sets of quick parameter storage functions
- The temperature-controlled fan speed makes the instrument have low noise and the fan has a longer service life

Technical data

Model	3303	3305
Output voltage	2×0~30V	2×0~30V
Output current	2×0~3A	2×0~5A
Fixed output (switchable)	5V-3A /3.3V-3A/ 2.5V-3A	5V-3A /3.3V-3A/ 2.5V-3A
Input voltage	220VAC±10% switchable	
Test conditions	Temperature: 10 to +35℃ Relative humidity ≤75%	
Usage environment	0~+40℃ RH≤80%	
Storage conditions	-10℃~70℃ RH≤70%	
Size	330(D)×250(W)×155(H)mm	
Weight	The net weight is approximately 9 kilograms	
The output range and indicators of the master and slave paths		
Power supply effect	CV≤0.01% +3mV CC≤0.2% +3 mA	
Load effect	CV≤0.01% +3mV（Ⅰ≤3A） CC≤0.2% +3mA（Ⅰ≤3A） CV≤0.02% +5mV（Ⅰ>3A） CC≤0.2% +5mA（Ⅰ>3A）	
Ripple and noise	CV≤1mVrms（Ⅰ≤3A，5Hz~1MHz） CC≤3mArms（Ⅰ≤3A） CV≤2mVrms（Ⅰ>3A，5Hz~1MHz） CC≤10mArms（Ⅰ>3A）	
Display accuracy	Voltage and current display accuracy: ±(1% reading + 2 characters)	
Tracking operation		
Parallel mode	Power supply effect: CV≤0.01% +3mV Loading effect: CV≤0.01% +3mV (Ⅰ≤3A) CV≤0.02% +5mV (Ⅰ>3A) The tracking current error of the driven circuit is ≤ 2% of the output of the active circuit +50mA	
Series mode	Power supply effect: CV≤0.01% +5mV; Load effect: CV≤300mV When the positive and negative power supplies are output, the voltage tracking error of the driven circuit is ≤ 0.5% of the output of the active circuit +10mV	
Fixed output power supply		
Rated output voltage	2.5V/3.3V/5V Three groups can be switched	
Max output current	3A	
Power supply effect	≤25mV	
Load effect	≤25mV	
Ripple and noise	≤2mVrms（5Hz~1MHz）	

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Power Supply



31560AC

33030AC

MAIN FEATURES

- LED digital display, simply and intuitively showing the voltage, current, power and time output by the power supply
- Automatic switching between voltage stabilization and current stabilization
- It has an output control switch, making the control more flexible
- Overvoltage, overcurrent, overpower, over-temperature and short-circuit protection
- 6 groups of quick parameter callbacks and storage functions
- With hardware List programmable sequence output
- Standard equipped with RS-485 serial port, supporting Modbus programming instruction set
- Standard equipped with SENSE compensation interface
- Switchable selection of output timing off and output timing function
- The temperature-controlled fan speed makes the instrument have low noise and the fan has a longer service life
- The voltage and current values can be pre-designed in the output off state for convenient operation
- One-key lock of the keyboard to prevent misoperation

Technical data

Model	31560AC	33030AC	36020AC	31005AC	32005AC
Output voltage	0~15V	0~30V	0~60V	0~100V	0~200V
Output current	0~60A	0~30A	0~20A	0~5A	0~5A
Output power	900W	900W	1200W	500W	1000W
Voltage resolution	< 100V: 10mV; ≥100V: 100mV				
Current resolution	< 100A: 10mA ≥100A: 100mA				
Power resolution	< 10W: 1mW ≥10W: 10mW ≥100W: 0.1W ≥1000W: 1W				
Time resolution	S				
Output parameters	Voltage stability: ≤± (0.2%+5digits) Current stability: ≤± (0.5%+5digits) Load stability: ≤0.5% Ripple and noise: ≤1% (effective value)				
Preset accuracy	Output voltage preset accuracy: ± 0.1V output constant current preset accuracy: ± 0.1A				
Operating environment	Altitude: ≤2000m Ambient temperature: 5℃ to 40℃ Relative Humidity: < 80%				
Storage environment	Ambient temperature: 0-70℃ Relative humidity: < 70%				
Power input	AC220V±10%,50Hz				
"Size"	330(D)×250(W)×155(H)mm				
Weight	About 5 kilograms				
Communication interface	Standard configuration: RS485; Optional RS232/USB				

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31560AC

33030AC

MAIN FEATURES

- The LED digital display simultaneously shows the voltage and current output by the power supply, and the decimal point is automatically rounded up
- Automatic switching between voltage stabilization and current stabilization
- Output Independent on-off switch
- Overvoltage, overcurrent, overpower, over-temperature and short-circuit protection
- Each channel has 3 sets of quick parameter storage functions
- The voltage and current values can be preset in the output off state for convenient operation
- It is standardly equipped with three communication interfaces: USB, RS232 and RS485, and supports the MODBUS RTU protocol
- The temperature-controlled fan speed makes the instrument have low noise and the fan has a longer service life

Technical data

Model	33010AC	30605AC
Output voltage	0~30V	0~60V
Output current	0~10A	0~5A
Output power	300W	300W
Voltage setting resolution	10mV	10mV
Current setting resolution	＜10A: 1mA ≥10A: 10mA	1mA
Voltage setting accuracy	≤0.1%+5digits	≤0.1%+5digits
Current setting accuracy	≤0.2%+10digits	≤0.2%+10digits
Voltage ripple	≤10mVrms	≤15mVrms
Current ripple	≤10mArms	≤15mArms
Power regulation rate	≤0.2%Umax+5mV	≤0.1%Umax+5mV
Load regulation rate	≤0.2%Umax+5mV	≤0.1%Umax+5mV
Overvoltage protection threshold	0V~33V	0V~65V
Overcurrent protection threshold	0A~10.5A	0A~5.5A
Operating environment	Ambient temperature: 0℃ to 40℃, relative humidity: ≤80%	
Storage environment	Ambient temperature: -20℃ to 80℃, relative humidity: ≤80%	
Power input	AC220V±10%, 50Hz	
Size	330(D)×250(W)×155(H)mm	
Weight	About 5.5Kg	
Communication interface	Standard configuration includes USB/RS232 / RS485	

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LVD CE



F33030A



F336020A

MAIN FEATURES

- LED digital display, simply and intuitively showing the voltage, current, power and output equivalent resistance of the power supply output.
- Automatic switching between voltage stabilization and current stabilization
- It has an output control switch, making the control more flexible
- Overvoltage, overcurrent, overpower, over-temperature and short-circuit protection
- Convenient and fast operation interface
- The temperature-controlled fan speed makes the instrument have low noise and the fan has a longer service life
- The voltage and current values can be pre-designed in the output off state for convenient operation

Technical data

Model	F31560A	F33030A	F36020A	F31005A	F32005A
Output voltage	0~15V	0~30V	0~60V	0~100V	0~200V
Output current	0~60A	0~30A	0~20A	0~5A	0~5A
Output power	900W	900W	1200W	500W	1000W
Voltage resolution	< 100V: 10mV; ≥100V: 100mV				
Current resolution	< 100A: 10mA ≥100A: 100mA				
Power resolution	< 10W: 1mW ≥10W: 10mW ≥100W: 0.1W ≥1000W: 1W				
Load equivalent resistance	< 10R: 1mR ≥10R: 10mR				
Display resolution	≥100R: 0.1R ≥1000R: 1R				
Output parameters	Voltage stability: ≤± (0.2%+5digits) Current stability: ≤± (0.5%+5digits)				
	Load stability: ≤0.5% Ripple and noise: ≤1% (effective value)				
Preset accuracy	Output voltage preset accuracy: ± 0.1V output constant current preset accuracy: ± 0.1A				
Operating environment	Altitude: ≤2000m Ambient temperature: 5℃ to 40℃ Relative Humidity: < 80%				
Storage environment	Ambient temperature: 0-70℃ Relative humidity: < 70%				
Power input	AC220V±10%,50Hz				
Size	330(D)×250(W)×155(H)mm				
Weight	About 5 kilograms				
Communication interface	RS232/RS485/USB				

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M1502A



M3010A



M6005A

MAIN FEATURES

High-quality and highly stable economical DC regulated power supply, with
LED four-digit voltage and current display, extremely high stability and strong reliability, is an ideal tool for colleges and universities, enterprise production lines, home appliance repair units, etc.

Technical data

Model		M1502A	M1505A	M1520A	M3010A	M6005A	M10003A
Output voltage		0~15V	0~15V	0~15V	0~30V	0~60V	0~100V
Output current		0~2A	0~5A	0~20A	0~10A	0~5A	0~3A
Output power		0~30W	0~75W	0~300W	0~300W	0~300W	0~300W
Voltage	Set the resolution	＜100V：10mV； ≥100V：0.1V					
	Set accuracy	≤0.1%+5digits					
	Readback resolution	＜100V：10mV； ≥100V：0.1V					
	Readback accuracy	≤0.1%+5digits					
	Temperature coefficient	≤0.02%+3mV					
	Ripple noise	≤10mVrms				≤15mVrms	≤18mVrms
Current	Set the resolution	＜10A：1mA； ≥10A：10mA					
	Set accuracy	≤0.2%+10digits					
	Readback resolution	＜10A：1mA； ≥10A：10mA					
	Readback accuracy	≤0.2%+10digits					
	Temperature coefficient	≤0.02%+3mA					
	Ripple noise	≤10mArms				≤15mArms	≤18mArms
Load regulation rate		＜10A：≤0.1%Umax+5mV； ≥10A：≤0.2%Umax+5mV					
Power regulation rate		＜10A：≤0.1%Umax+5mV； ≥10A：≤0.2%Umax+5mV					
Maximum voltage		15.5V	15.5V	15.5V	32V	64V	102V
Maximum current		2.1A	5.1A	20.1A	10.1A	5.1A	3.1A
Heat dissipation method		Air-cooled					
Weight		2.0KG					
Size		230×80×150（mm）					
Working voltage		AC220V±10% 50Hz					
Working conditions		0 ～ 40℃ ≤80%RH					
Storage conditions		-20 ～ 60℃ ≤80%RH					

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M1502AC



M3010AC



M16005AC

MAIN FEATURES

High-quality and highly stable economical DC regulated power supply, LED four-digit voltage and current display, and optional programming interface to achieve remote control or automatic control.

Technical data

Model		M1502AC	M1505AC	M1520AC	M3010AC	M6005AC	M10003AC	M4020AC	M8010AC	M16005AC
Output voltage		0~15V	0~15V	0~15V	0~30V	0~60V	0~100V	0~40V	0~80V	0~160V
Output current		0~2A	0~5A	0~20A	0~10A	0~5A	0~3A	0~20A	0~10A	0~5A
Output power		0~30W	0~75W	0~300W	0~300W	0~300W	0~300W	0~300W	0~300W	0~300W
Voltage	Set the resolution	＜100V：10mV；　≥100V：0.1V						10mV		100mV
	Set accuracy	≤0.1%+5digits								
	Readback resolution	＜100V：10mV；　≥100V：0.1V						10mV		100mV
	Readback accuracy	≤0.1%+5digits								
	Temperature coefficient	≤0.02%+3mV								
	Ripple noise	≤10mVrms				≤15mVrms	≤18mVrms	≤12mVrms		
Current	Set the resolution	＜10A：1mA；　≥10A：10mA						10mV	＜10A:1mA; ≥10A:10mA	
	Set accuracy	≤0.2%+10digits								
	Readback resolution	＜10A：1mA；　≥10A：10mA						10mV	＜10A:1mA; ≥10A:10mA	
	Readback accuracy	≤0.2%+10digits								
	Temperature coefficient	≤0.02%+3mA								
	Ripple noise	≤10mArms				≤15mArms	≤18mArms			≤26mArms
Load regulation rate		＜10A：≤0.1%Umax+5mV；≥10A：≤0.2%Umax+5mV								
Power regulation rate		＜10A：≤0.1%Umax+5mV；≥10A：≤0.2%Umax+5mV								
OVP		0~16V	0~16V	0~16V	0~33V	0~65V	0~103V	0~41V	0~81V	0~611V
OCP		0~2.5A	0~5.5A	0~20.5A	0~10.5A	0~5.5A	0~3.5A	0~20.5A	0~10.5A	0~5.5A
Maximum voltage		15.5V	15.5V	15.5V	32V	64V	102V	40.5V	80.5V	160.5V
Maximum current		2.1A	5.1A	20.1A	10.1A	5.1A	3.1A	20.1A	10.1A	5.1A
Heat dissipation method		Air-cooled								
Weight		≤2.0KG						≤2.2KG		
Size		230×80×150(mm)								

EMC
LVD CE



P80205A

MAIN FEATURES

- Ultra-thin body, portable and easy to use
- High resolution and high resolution 10mV / 1mA
- list waveform editing output, capable of editing up to 10 groups of timed output functions
- Low ripple noise
- Overvoltage/overcurrent protection function
- Output voltage and current curve monitoring function
- Intelligent temperature-controlled fan for cooling
- 2.8-inch TFT LCD display
- USB communication interface, supporting SCPI communication protocol

Technical data

Model		P30051A	P30102A	P60102A	P30103A	P60103A	P60053A	P80104A	P80205A
Rated output	Voltage	0~30V	0~30V	0~60V	0~30V	0~60V	0~60V	0~80V	0~80V
	Current	0~5A	0~10A	0~10A	0~10A	0~10A	0~5A	0~10A	0~20A
	Power	150W	200W	200W	300W	300W	300W	400W	500W
Load regulation rate	Voltage	≤30mV						≤20mV	
	Current	≤30mA						≤10mA	
Power regulation rate	Voltage	≤20mV						≤20mV	
	Current	≤20mA						≤10mA	
Set the resolution	Voltage	10mV						10mV	
	Current	1mA						1mA	
Readback resolution	Voltage	10mV						10mV	
	Current	1mA						1mA	
Set the accuracy	Voltage	≤0.1%±20mV		≤0.1%±30mV	≤0.1%±20mV	≤0.1%±30mV		≤0.05%±20mV	
	Current	≤0.1%±10mA		≤0.1%±10mA		≤0.1%±10mA		≤0.05%±10mA	≤0.05%±20mA
Readback accuracy	Voltage	≤0.1%±20mV		≤0.1%±30mV	≤0.1%±20mV	≤0.1%±30mV		≤0.05%±20mV	
	Current	≤0.1%±10mA		≤0.1%±10mA		≤0.1%±10mA		≤0.05%±10mA	≤0.05%±20mA
Ripple & Noise	Voltage	≤30mV		≤50mV	≤30mV	≤50mV		≤50mV	
	Voltage	≤3mV		≤5mV	≤3mV	≤5mV		≤15mV	
	Current	≤30mA							
Output temperature coefficient	Voltage	100ppm/˚C							
	Current	200ppm/˚C							
Readback value	Voltage	100ppm/˚C							
	Current	200ppm/˚C							
Transient recovery time		≤1ms						≤5ms	
Communication interface		USB communication, compatible with the SCPI communication protocol							
USB interface		5V/1A charging							
Working temperature		0˚C to 40˚C							
Relative humidity		≤90%RH; No condensation							
Storage temperature		-20˚C to 60˚C							
Power supply		220Vac±10%							
Display screen size		2.8-inch color LCD display (240 horizontal × 320 vertical pixels)							
Fuselage weight		About 1.5 kilograms							
Body size		82mm× 142mm×226mm							
Standard accessories		Power cord, instruction manual, fuse, USB cable, alligator clip connection cable							

EMC LVD CE



3005M *New Model* **3010M**

new cheapest mini size DC power supply 30V 5A/30V 10A

Technical parameters

Model	3005M	3010M
Rated voltage	0~30V	0~30V
Rated current	0~5A	0~10A
Input voltage	115~230V±10%	
Rated operating conditions		
Work	0℃~40℃<80%RH	
Storaye	-10C~70°℃<70%RH	
Gonstantpressure state		
Voltaye stability	≤1%±3mV	≤1%±10mV
Load stability	≤1%±3mV	≤1%±10mV
Ripple noise	≤50mVrms	≤60mVrms
Constant current state		
Current stability	≤1%±3mA	≤1%±10mA
load stability	≤1%±3mA	≤1%±10mA
Ripple noise	≤50mArms	≤60mArms
Display		
Voltage resolution	0.01V	
Current resolution	0.001A	
Precision	1%±5	1%±10
Product size	(102x195x80)mm	(102x220x80)mm
Product weight	0.8kg	1kg
Packaging dimensions	(178x228x115)mm	(178x253x115)mm
Packaging weight	1.15kg	1.35kg
Fuse	3.15A	5A

EMC LVD CE



PT3005AC *New Model*

It features a 2.4-inch color LCD display, with 3 channels of quick parameter presetting, overvoltage protection, overcurrent protection, buzzer alert, and alarm functions. It also supports customizing protection parameter thresholds in the menu. It is an essential tool for various educational institutions and home appliance maintenance.

Technical parameters

Model	PT3005AC
Basic functions	
Input voltage	Minimum:200V; Reference value:220V; Maximum value: 240V
Output voltage	30.0V
Output current	5.0A
Outputpower	150W
Heat dissipation method	Air-cooled
Overheatprotection threshold	Minimum:35°C; Reference value:40°C; Maximum:85C
Conversion efficiency	≥83%
Working environment	0℃-40℃
Storage environment	-20C-60C
Voltage	
Voltage setting resolution	10mV
Voltage reading resolution	10mV
Voltage setting error	≤0.5%±10mV
Voltage reading error	≤0.5%±10mV
Output ripple	100mVrms
Current	
Current setting resolution	1mA
Current reading resolution	1mA
Current setting error	≤0.5%±10mA
Current reading error	≤0.5%±10mA
Output ripple	25mArms

EMC LVD CE

Thickness Meter

Details :

Measuring Range : 0-1250μm, 0-50mils
Accuracy : ± （3%+2μm） / ± （3%+0.1mils）
Resolution : 1μm / 0.1mils
Three Calibration Ways: Zero point, Two point, Initialization.
The system errors can be modified promptly by calibration.
Measuring Mode : Single Measuring/Consecutive Measuring
Data Storage: store 99 sets of data in max.,
the data will be eliminated after power off.
Digital readout display shows at 180 degrees rotation
Buzzer Indication Function
Metric-Inch Switch Function
Low Battery Indication Function
Auto Power Off Function
Battery : 3V
Product Net Weight : 68g
Product Size : 100*52*29mm
Operation Temperature : 0~+50℃ （+32 ~ +120℉）



852A

Thickness Meter

MODEL: VICTOR 852E

Specification:
Measurement Range: 0-1250μm / 0-50mil
Resolution: 0.1μm / 0.1mil
Accuracy: ±(2%+2μm) / ±(2%+0.1mil)
Product Size: 166×68×30mm 6.5×2.5×1 inch
Product Weight: 180g/ 0.4lb (with batteries)
Operation Temperature: -10 to +50℃ (+12 to +122℉)
Note: Only take measurement after the probe of the instrument reaches environment temperature. Please disregard the first several reading if you are not sure whether the probe is stable under current environment temperature



852E

Model: **VICTOR 852C+**
Product Name: Ultrasonic Thickness Meter

Details:
Measuring Range: 1.5-200mm
Accuracy: 0.5%H+0.1
Resolution: 0.1m
Sound Velocity Range: 500~9000m/s
Operation Frequency: 5MHz.
Sensor: Ultrasonic 5MHzΦ10
Automatically memorize material code and sound velocity .
Low Battery Indication Function
Auto Power Off Function
Battery: 3V(2*1.5V) AAA Battery
Product Net Weight: 220g
Product Size: 147*72*35mm



852C+

EMC
LVD CE

Clamp Leaker

	6800
Range	0.00mA~1200A
Resolution	0.01mA
Accuracy（23℃±3℃, **below 70%RH**）	0.00mA~59.9A: ±1.5%±5dgt
	60.00A~199A: ±2%±5dgt
	200.0A~599A: ±3%±5dgt
	600A~1200A: ±4%±5dgt
Power	Zn-Mn dry battery,6F22,9V
Size of jaw	Φ68mm
Sampling Rate	about 2 times/s
USB Interface	Data stored in the memory of the meter via USB upload to PC, or on-line monitoring
Storage	99units , all used when display FULL
Peak Hold	Push HOLD without release,the meter will show the peak value during the pushing period
Reading Hold	DH indicating when the reading is hold
Out of Range	OL indicating when the current is out of range
Working Current	5mA
Line Voltage	circuit test below AC1600V
Range Shift	Automatically



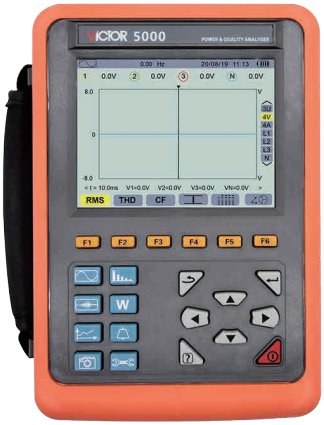
6800

	690
Power Source	Zinc-manganese dry battery 6F22 9V
Test Mode	Flexible CT: the output signal is the differential of the current to the time. By integrating the output voltage signal, the input current can be truly restored.
Coil Diameter	200mm diameter
Range	AC 0.00A~9999A
Resolution	AC 10mA
Accuracy	±2%+3dgt(The wire is in the center of the flexible coil,23℃±2℃
Coil thickness	7.5mm (Very suitable for narrow environments and places with dense wiring)
Measured Current Frequency	50Hz/60Hz (automatic identification)
Data Storage	99units , all used when display FULL
Peak Value Hold	Push HOLD withoutrelease,the meter will show the peak value during the pushing period, display
Data Hold	DH indicating the reading is hold
Line Voltage	circuit test below AC1600V



690

EMC LVD CE



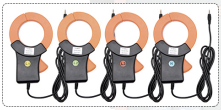
OPTIONAL CURRENT CLAMP



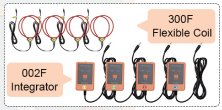
008B Current Clamp
10mA~10A 7.5*13mm



040B Current Clamp
0.10A~100A 35*40mm



068B Current Clamp
1.0A~1000A 68*68mm



300F Flexible Coil Current Sensor for use with Integrator 002F:
10A~6000A Φ300mm

5000

Basic function

★ Waveform real-time display (4 channels voltage/4 channels current).
★ True RMS values of voltages and currents.
★ The DC components of voltages.
★ Peak current and voltage values.
★ Minimum and maximum half-cycle RMS current and voltage values.
★ Pharos diagram display.
★ Measurement of each harmonic up to order 50.
★ Bar charts show harmonic ratios of current and voltage of each phase.
★ Total harmonic distortion (THD).
★ Active, reactive, apparent power, by phase and cumulative.
★ Active, reactive, apparent energy, by phase and cumulative.
★ Transformer K factor.
★ Power factors (PF) and displacement factors (DPF or COSΦ).
★ Short-term voltage flicker (PST).
★ Three phase unbalance(current and voltage).

Basic Function	5000	Base condition	Working condition
Environment temperature	All parameters	(23±2)°C	-10°C~ 40°C
Relative humidity	All parameters	40%~ 60%	<80%
Phase-to-neutral voltage	All parameters	(100±1%)V	1.0V~ 1000V
Phase-to-phase voltage	True RMS phase-to-phase voltage	(200±1%)V	1.0V~ 2000V
Current	True RMS current	(5±1%)A	10mA~ 1000A
Network frequency	All parameters	50Hz±0.1Hz	40Hz~ 70Hz
Phase shift	Active power and active energy	Cosφ=1	Cosφ: 0.2~ 1.0
	Reactive power and reactive energy	Sinφ=1	Sinφ: 0.2~ 1.0
Harmonic	All parameters	<0.1%	0.0%~ 100%
Voltage unbalance	All parameters	<10%	0.0%~ 100%
Working voltage of device	All parameters	DC9.8V±0.1V	DC9.5V~ 10.5V
External electric field, magnetic field	All parameters	Should be avoided	
Test position	Measured related parameters of current	Tested wire at the center of clamp.	

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General specification	5000
Power supply	Rechargeable lithium-ion battery packs 9.6V, backup charger.
Battery indicator	Battery symbol shows dump energy. When the voltage is too low, automatic shutdown after the 1 minute.
Power consumption	Current consumption of normal test 490 mA, continuous working for 8 hours.
Display mode	LCD color screen, 640dots×480dots, 5.6 inches, display domain: 116mm×88mm.
Size of clamp	008B small sharp current clamp: 7.5mm×13mm; 040Bcircle current clamp: 35mm×40mm; 068Bcircle current clamp: 68mm×68mm. 300F Flexible Coil Current Sensor (with Integrator) : Φ300mm
Instrument dimensions	L×W×H: 240mm×170mm×68 mm.
Number of channels	4U/4I.
Phase-to phase voltage	1.0V~2000V.
Phase-to-neutral voltage	1.0V~1000V.
Current	008B current clamp: 10mA~10.0A; 040B current clamp: 0.10A~100A; 068B current clamp: 1.0A~1000A; 300F Flexible Coil Current Sensor (with Integrator) : 10A ~ 6000A
Frequency	40Hz~70Hz.
Parameters of electricity	W, VA, Var, PF, DPF, cosφ, tanφ.
Energy parameters	Wh, Varh, Vah.
Harmonic	Order 0~50.
Total harmonic distortion	Order 0~50, each phase.
Expert mode	Yes.
Number of Transient records	150 sets.
Voltage flicker	Yes.
Starting current mode	Yes, 100 seconds.
3 phases unbalance	Yes.
Record	300 days(simultaneous recording 20 parameters, record one point every 5 seconds).
Min/Max recorded value	Measurement of maximum and minimum values over a period of time.
Alarm	40 different types of parameter selections, 12,800 sets alarm logs.
Peak	Yes.
Phasor diagram display	Automatically.
Capacity of snapshots	60.
Menu language	English/Chinese.
Communication	USB.
Automatic switching off	When an alarm campaign is initiated or a search for transients, an inrush current capture, or a trend recording is pending or in progress,the device is not automatic switching off.
	In other test mode, 15 minutes without keystrokes, automatic shutdown after prompt 1 minute.
Backlight function	Yes, suitable for use at night and dark place.
Weight	Host: 1.6kg (with battery).
	008B small sharp current clamp: 170g×4;
	040Bcircle current clamp: 190g×4;
	068Bcircle current clamp: 510g×4;
	300F Flexible Coil Current Sensor (with Integrator) : 330g×4;
	Test wires and power adapter: 900g;
	Total weight: about 9.2kg (with packaging).
Length of voltage test wire	3m.
Length of current sensor wire	2m.
Input impedance	Input impedance of test voltage:1MΩ.
Withstand voltage	Withstand 3700V/50Hz sinusoidal AC voltage for 1 minute between instrument wiring and shell.
Insulation	Between instrument wiring and shell ≥10MΩ.

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Power Quality Analyser



5000B

Power Quality Analyser

Current sensor character

Type of current senso	True RMS current	Max error of true RMS current	Max error of phase angleφ
FR008 current clamp	10mA~ 99mA	±(1%+3dgt)	±(1.5°),Arms≥20mA
	100mA~ 10.0A	±(1%+3dgt)	±(1°)
FR020 current clamp	0.10A~ 0.99A	±(1%+3dgt)	±(1.5°)
	1.00A~ 100A	±(1%+3dgt)	±(1°)
FR050 current clamp	1.0A~ 9.9A	±(2%+3dgt)	±(3°)
	10.0A~ 1000A	±(2%+3dgt)	±(2°)
FR300RFlexible Coil Current	10A ~ 199A	±(1 % + 3dgt)	±(3°)
Sensor (with Integrator)	200A~6000A	±(1 % + 3dgt)	±(2°)



Small cusp
8mmx 15mm
168gx4



Round mouth
20mmx 20mm
252gx4



Round mouth
50mmx 50mm
463gx4



Flexible coil (with integrator)
Φ300mm
280gx4

Basic Function	5000B
Power supply	Rechargeable lithium-ion battery packs 9.6V, backup charger.
Battery indicator	Battery symbol (▮) shows dump energy. When the voltage is too low, automatic shutdown after the 1 minute.
Power consumption	Current consumption of normal test 490 mA, continuous working for 10 hours.
Display mode	LCD color screen, 640dots×480dots, 5.6 inches, display domain: 116mm×88mm.
Size of clamp	FR008 small sharp current clamp: 8mm×15mm; FR020circle current clamp: 20mm×20mm; FR050 circle current clamp: 50mm×50mm. FR300R Flexible Coil Current Sensor (with Integrator) : Φ300mm
Instrument dimensions	L×W×H: 277.2mm × 227.5mm × 153mm.
Number of channels	4U/4I.
Phase-to phase voltage	1.0V~2000V.
Phase-to-neutral voltage	1.0V~1000V.
Current	FR008 current clamp: 10mA~10.0A; FR020 current clamp: 0.10A~100A; FR050 current clamp: 1.0A~1000A; FR300R Flexible Coil Current Sensor (with Integrator) : 10A ~ 6000A
Frequency	40Hz~70Hz.
Parameters of electricity	W, VA, Var, PF, DPF, cosφ, tanφ.
Energy parameters	Wh, Varh, Vah.
Harmonic	Order 0~50.
Total harmonic distortion	Order 0~50, each phase.
Expert mode	Yes.
Number of Transient records	150 sets.
Voltage flicker	Yes.
Starting current mode	Yes, 100 seconds.
3 phases unbalance	Yes.
Record	300 days(simultaneous recording 20 parameters, record one point every 5 seconds).
Min/Max recorded value	Measurement of maximum and minimum values over a period of time.
Alarm	40 different types of parameter selections, 12,800 sets alarm logs.
Peak	Yes.

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Phasor diagram display	Automatically.
Capacity of snapshots	60.
Menu language	English/Chinese.
Communication	USB.
Automatic switching off	When an alarm campaign is initiated or a search for transients, an inrush current capture, or a trend recording is pending or in progress,the device is not automatic switching off.
	In other test mode, 15 minutes without keystrokes, automatic shutdown after prompt 1 minute.
Backlight function	Yes, suitable for use at night and dark place.
Weight	Host: 1.6kg (with battery). FR008 small sharp current clamp: 168g×4; FR020 circle current clamp: 252g×4; FR050 circle current clamp: 463g×4; FR300R Flexible Coil Current Sensor (with Integrator) : 280g×4; Test wires and power adapter: 800g; Total weight: about 10.8kg (with packaging).
Length of voltage test wire	3m.
Length of current sensor wire	2m.
Working temperature and humidity	-10°C~40°C; below 80%Rh.
Storage temperature and humidity	-10°C~60°C; below 70%Rh.
Input impedance	Input impedance of test voltage:1MΩ.
Withstand voltage	Withstand 3700V/50Hz sinusoidal AC voltage for 1 minute between instrument wiring and shell.
Insulation	Between instrument wiring and shell ≥10MΩ.
Structure	Double insulation, with insulation vibration-proof sheath.
Safely rules	IEC 61010 1000V Cat III / 600V CAT IV, IEC61010-031, IEC61326, Pollution degree: 2.

Measurement	Range	Display resolution	The maximum error in the range of the reference
Frequency	40Hz~ 70Hz	0.01Hz	±(0.03)Hz
True RMS phase-to-neutral voltage	1.0V~ 1000V	Min resolution 0.1V	±(0.5%+5dgt)
True RMS phase-to phase voltage	1.0V~ 2000V	Min resolution 0.1V	±(0.5%+5dgt)
DC voltage	1.0V~ 1000V	Min resolution 0.1V	±(1.0%+5dgt)
True RMS current	10mA~ 6000A	Min resolution 1mA	±(0.5%+5dgt)
Peak of phase-to-neutral voltage	1.0V~ 1414V	Min resolution 0.1V	±(1.0%+5dgt)
Peak of phase-to-phase voltage	1.0V~ 2828V	Min resolution 0.1V	±(1.0%+5dgt)
Current peak	10mA~ 8484A	Min resolution 1mA	±(1.0%+5dgt)
Peak factor	1.00~ 3.99	0.01	±(1%+2dgt)
	4.00~ 9.99	0.01	±(5%+2dgt)
Active power	0.000W~ 9999.9kW	Min resolution 0.001W	±(1%+3dgt)Cosφ≥0.8
			±(1.5%+10dgt)0.2≤Cosφ<0.8
Reactive power, inductive or capacitive	0.000VAR~ 9999.9kVAR	Min resolution 0.001VAR	±(1%+3dgt)Sinφ≥0.5
			±(1.5%+10dgt)0.2≤Sinφ<0.5
Apparent power	0.000VA~ 9999.9kVA	Min resolution 0.001VA	±(1%+3dgt)
Power factor	-1.000~ 1.000	0.001	±(1.5%+3dgt)Cosφ≥0.5
			±(1.5%+10dgt)0.2≤Cosφ<0.5
Active energy	0.000Wh~ 9999.9MWh	Min resolution 0.001Wh	±(1%+3dgt)Cosφ≥0.8
			±(1.5%+10dgt)0.2≤Cosφ<0.8
Reactive energy, inductive or capacitive	0.000VARh~ 9999.9MVARh	Min resolution 0.001VARh	±(1%+3dgt)Sinφ≥0.5
			±(1.5%+10dgt)0.2≤Sinφ<0.5
Papparent energy	0.000VAh~ 9999.9MVAh	Min resolution 0.001VAh	±(1%+3dgt)
Phase angle	-179°~ 180°	1°	±(2°)
Tanφ(VA≥50VA)	-32.76~ 32.76	Min resolution 0.001	φ:±(1°)
Phase shift of power factor (DPF)	-1.000~ 1.000	0.001	φ:±(1°)
Harmonic ratio (order 1 to 50) (Vrms>50V)	0.0%~ 99.9%	0.1%	±(1%+5dgt)
Harmonic angle (Vrms>50V)	-179°~ 180°	1°	±(3°) harmonics 1 to 25
			±(10°) harmonics 26 to 50
Total harmonic ratio (THD or THD-F)≤50	0.0%~ 99.9%	0.1%	±(1%+5dgt)
Distortion factor (DF or THD-R)≤50	0.0%~ 99.9%	0.1%	±(1%+10dgt)
Transformer K factor	1.00~ 99.99	0.01	±(5%)
3 phases unbalance	0.0%~ 100%	0.1%	±(1%)

EMC
LVD CE

Water Pipe Leak Detector
Wall Scanner



528A/538A

Water Pipe Leak Detector

Water Leak Detector is a special instrument for searching and confirming the location of water pipe leak. It can also be used for other pressure pipe system.When the liquid in pipe overflows under pressure, noise can propagate along the pipe or spread to the ground through buried media,our instrument can confirm the location of leaks along the pipeline or above the ground surface.

Model	528A	538A
Frequency analysis bandwidth	100HZ~2000Hz	100HZ~3000Hz
Frequency division	a、100 Hz b：200 Hz c：400 Hz	a、100 Hz b：200 Hz c：400 Hz
(Center frequency)	d：800 Hz e：1K Hz f：1.5K Hz	d：800 Hz e：1K Hz f：1.5K Hz
	g：2K Hz	g：3K Hz
Max. detection depth	2m	3m
All-pass	It can pick up a wide range of sound in the surrounding environment, and it is recommended to use in a relatively quiet environment.	
Bandpass 1	The frequency range is adjustable, can effectively improve the accuracy and efficiency of use. It is recommended to use in a loud noise environment.	
Bandpass 2	Only the center frequency is adjustable, it is recommended to use in a loud noise environment.	
Real-time mode	Waveform display	
Frequency domain mode	Bar graph display.	
Gain mode	Adjustable signal magnification	
Set up	Time and date can be set as required.	
Volume adjustment	The volume can be adjusted by the keys "+" and "-"	
Vibration Pickup Assembly A	Triangle sensor, suitable for water leakage detection in most indoor and outdoor environments such as the ground	
Vibration Pickup Assembly B	Small cylindrical sensor, suitable for leak detection in small indoor spaces such as walls and under cabinets	
Battery time	Power supply working time ≥ 35 hours after the battery is fully charged	
Operation temperature	-10℃~+50℃	
Storage temperature	-10℃~+70℃	
Power	4800mAh rechargeable lithium battery	
Screen	7 inch color LCD screen.	
Size	（L×W×D）：270×169×68mm.	
Weight	Host 0.77kg (including battery, excluding accessories)	



518

MODEL: 518

Specification
Maximum scanning depth
Ferrous metal: 110mm
Non-ferrous metals: 110mm
Copper conductors (Live): 50mm
Wood: 25mm
Working temperature: -10℃～+50℃
Storage temperature: -20℃～+70℃
Humidity: ≤75%　　Altitude: ≤2000m
Battery:3*1.5V AAA
Dimensions: 185*85*33mm
Weight: 180g

EMC
LVD CE

Mode 5001
Technical Parameters
1.Measuring range: 4*90°
2.Resolution: 0.05°
3.Accuracy: ±0.2°
4.Repeatability: 0.1°
5.Battery: AAA×2 battery
6.Working temperature: 0℃~40℃
7.Convenient to be attached to the object Measuring workpiece
8.Absolute zero measurement based on the level surface
9.Dimension: 57*57*30.5mm; N.Weight: 200g

Mode 5003
Technical Parameters
1.Measuring range: 4*90°
2.Resolution: 0.05°
3.Accuracy: ±0.2°
4.Repeatability: 0.1°
5.Battery: AAA×2 battery
6.Working temperature: 0℃~40℃
7.Convenient to be attached to the object Measuring workpiece
8.Absolute zero measurement based on the level surface
9.Dimension: 61*59*31mm; N.Weight: 200g



5001/5003

Digital Inclinometer

DIGITAL PROTRACTOR

Accuracy 0 and 90°≤0. 10°
Other degree ≤0. 15°
Resolution 0. 05°
Range 4* 90°(0~ 360°)
Repeatability ≤0. 10°
Battery 3V (2 pieces AAA battery)
Working current ≤8mA
Working temperature 0~ 40 ℃
Relative humidity ≤80%
Automatic readout flipping right side up for the convenient reading when the protractor is upside down.



5005/5006

Digital Protractor

EMC
LVD

Digital Caliper
Digital Force Gauge

Model	5150	5200	5300
Measurement range	150mm/6"	200mm/8"	300mm/12"
Accuracy	0.01mm/0.0005"	0.01mm/0.0005"	0.01mm/0.0005"
L	235mm	287mm	390mm
A	40mm	50mm	60mm
B	21mm	24mm	27mm
C	16mm	16mm	16mm
D	3.5mm	3.5mm	4.0mm
Repeatability	0.01mm/0.0005"		
Max. measurement speed	3 m/s		
Operating temperature	0℃~40℃		
Power	SR44(silver oxide cell) 1.5V 1 battery		
Average battery life	The warranty is above 1 year under normal use		



5150/5200/5300

Digital Caliper

Measurement range:0-150mm
Resolution (mm): 0.01
Measurement speed: ≤1.5m/s
Power Supply: LR44 1.5V Battery
Operating humidity :<80%
Operating temperature :0~+40 ℃
Storage temperature :-10~+60 ℃



New Model

5150S

MODEL: YITENSEN 10N/50N/100N/200N/300N/500N
Main technical parameters

The max. Load value	10N	50N	100N	200N	300N	500N
	1kg	5kg	10kg	20kg	30kg	50kg
	2.2Lb	11Lb	22Lb	45Lb	65Lb	110Lb
Load Value	0.01N		0.1N			
	0.001KG		0.01KG			
	0.001Lb		0.01Lb			
The sensor	Sensor inside					
Precision	±0.5%					
Power	3.7V lithium battery					
Charging time	4~6 hours					
Continuous usage time of battery	About 15 hours					
Battery life	≥ 300 times					
Charger	Input: AC220V 50Hz Output: DC 5V 1000mA					
Working temperature	5℃~35℃					
Transportation temperature	-10℃~60℃					
Relative humidity	15%~80%RH					
Work environment	No focus ,Non-corrosive in surroundings					



10N/ 50N/100N/200N/300N/ 500N

DIGITAL FORCE GAUGE

EMC
LVD CE

Desoldering Station
Digital Torque Wrench

Basic Function	8586B
Power consumption	750w (MAX)
Input voltage	AC (100V/110V/120V/220V/230V /240V/) 50/60Hz (optional)
Display mode	LED screen display
Heating & soldering station	
Power consumption	700w (MAX)
Temperature range	100~500℃ & (212°F-932°F)
Air pump type	Fan type
Noise	<52d B(A)
Air flow	120L/min (MAX)
Electrical soldering station	
Power	70w (MAX)
Temperature range	200~480°C
Temperature stability	±2℃ (still air and no load)
Temperature accuracy	±15℃
Impedance of welding tip to ground	<2Ω
Voltage of welding tip to ground	<2mV
Heating core	Four-core stainless steel heating core
Working voltage of heating core	24DC
Overall dimensions of unit	167 (L)*100(W)*131(H) MM
Weight	1.86KG
USB port	5V and 2A (max)



8586B

Model	NG-030	NG-060	NG-135	NG-200	NG-340
Min.Resolution	0.01			0.1	
Max.Operation Range（N.m）	30N.m/22.12ft.lb/265.5 in.lb/305.91kgf.cm	60N.m/44.25ft.lb/531 .04in.lb/611.82kgf.cm	135N.m/99.57ft.lb/119 5in.lb/1376.61kgf.cm	200N.m/147.5ft.lb/177 0in.lb/2039.43kgf.cm	340N.m/250ft.lb/300 9in.lb/3467.03kgf.cm
Square Drive（inches）	3/8		1/2		
Measured Torque Range（N.m）	1.5~30	2~60	6.75~135	10~200	17~340
Length(mm)	420		535		655
Accuracy	Clockwise: ±2% counterclockwise ±2.5%				
Data storage capacity	100				
Operation mode	Peak hold mode（P）/Real-time mode（T）				
Unit	N.m、in.lb、ft.lb、kgf.cm				
Ratchet head type	Double-side ratchet head				
Number of ratchet gear	36				
Button	5				
Battery	AA battery × 2 1.5V （No. 5 battery）				
Operation temperature	-10℃~60℃				
Storage temperature	-20℃~70℃				
humidity	No condensation to 90%				
Drop test height	1 meter				
Vibration test condition	10G				
Life time test	10000 times				



NG-30/NG-60/NG-135/NG-200/NG-340

Digital torque wrench

EMC
LVD CE

Combustible gas detector
Compound Gas Monitor



822M

Mini Gas Detector

This meter is a combustible gas leakage detector,which isused to detect the leakage of combustible gas quickly andreliably.

Technical data

Basic Function	822M
Sensor	Gas-sensitive semi-conductor
Reaction Range	50~100OPPM(methane)
Reactions Sensitivity	Approx.<50ppm(methane)
Warm-Up Time	Approx.30 sec
Reactions time	<=500PPM: Approx.5sec >50OPPM: Approx.2sec
Alarm mode	Visible and audible
Operating conditions	0 to 50°C / 20 to 80%RH
torage conditions	-10 to 60°C / 20...80% RH
Batteries	2x1.5V AAA Alkaline battery



821B

Technical data

Basic Function	821B
Gas detection	CO
Measuring range	0~1000μmol/mol
Resolution	1
Accuracy	When the measuring range is(0~50) μmol/mol,maximum allowable error is: 5 μmol/mol When the measurement range is (50 ~1000) μmol/mol,maximum allowable error is:10%
Response time (90%)	Less than 30 seconds
Indication mode	LCD displays real-time data and system state,LED, sound, vibration indication alarm
Storage Conditions	Temperature:-10~55°C;Humidity:<85%RH
Operation Conditions	Temperature:-20~50°C;Humidity:<95%RH non-condensing
Working voltage	DC 3.7V (Lithium battery capacity 1800mAh)
Battery Model	LP103450-1800mAh
Charging time	6~8h
Standby time	More than 8h on end (slightly change with working state)
Dimensions	71*153*49mm
Weight	215.4g(with battery and back button)

518

EMC
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Compound Gas Monitor



829A



820D

Compound Gas Monitor range

Compound Gas Monitor adopts high-quality gas sensors,which displays safety and reliability with accurate measurement and stable performance. It has excellent sensitivity and repeatability, easy to use and maintain, and meets the requirements by safety monitoring in industrial site for high reliability of the equipment. The shell is made of high-strength engineering plastics and compound non-slip rubber, dust and explosion-proof, with high strength and smooth handfeel. Compound Gas Monitor is widely used in petroleum, chemical, environ- ental protection, metallurgy, refining, gas transmission and distribution, biochemical medicine, agricultural research, etc.

Gas type	829A			820D			
	Unit	Range	Resolution	Range	Low alarm point	High alarm point	Resolution
Ex	%LEL	0~100	0.1	0~100	25	50	1
O_2	%VOL	0~30	0.1	0~30	19.5	23.5	0.1
H_2S	PPM	0~100	0.1	0~100	15	35	1
CO	PPM	0~1000	1	0~1000	50	150	1

Technical data

Model	829A	820D
Accuracy	≤±5%FS	≤±5%FS
Response time (90%)	Less than 30 seconds	≤30 seconds
Indication mode	LCD displays real-time data and system state, LED, sound, vibration indication alarm	Real-time data and system status display, lighting, vibration and voice (Chinese and English) prompts
Storage Conditions	Temperature:-10~55℃; Humidity:＜85%RH	*
Operation Conditions	Temperature:- 20~50℃; Humidity:＜ 95%RH non-condensing	Temperature -10℃~55℃; humidity 10~95%RH condensation
Working voltage	DC 3.7V (Lithium battery capacity 1800mAh)	DC3.7V (Lithium battery capacity 2000mAh)
Charging time	6~8h	*
Standby time	More than 8h on end (slightly change with working state)	*
Dimensions	153*71*49mm	140*73* 32mm
Weight	218.7g With battery	205g

EMC
LVD CE

PCBA Infrared Thermal Imaging Analyzer



380S

Shenzhen VICTOR 380S 25Hz Circuit Board Thermal Analyzer 3D Thermal Image pcb USB connection DC 5V Test Electric Leakage

Victor 380S is a new generation of PCBA infrared thermal imaging analyzer, which is suitable for thermal simulation of circuit design, rapid maintenance of circuit board and detection of defective electronic materials.

Features The user can quickly locate of the current leakage or short circuit on PCBA. With clear images, users can even observe the chipset pins of thermal video.

In 3D mode, users can detect ultra-small current leakage. To detect very small temperature diffffference between good and defectboards, which is diffiffifficult by other instruments. To help thermal design, testing, verifification, optimization, componentsselection, and help extend product life cycle. Curve data is convenient for R&D engineers to record thermal experimental data.

Technical data

Basic Function	380S
Infrared resolution	256*192
Refresh rate	25Hz
FOV	56°x42°
Measurement distance	100mm - 150mm
Interface	USB Type C
Input voltage	DC 5V
Measurement range	-15°C~600°C(5°F~+1112°F)
Storage temperature	-20°C~60°C
Working temperature	0°C~50°C
Overall weight	1200g
Product size	150mm x 150mm x 230mm

EMC
LVD

7 Inch Digital Microscope

VICTOR®

DM9



7 Inch Digital Microscope

Product name: DM9
Video maximum pixel: 1080FHD
Lens optic size: 1/4”
Picture resolution: 16M, 12M, 10M, 8M, 5M, 3M, 2MHD, 1.3M
Video resolution: 1080FHD, 1080P, 720P
Video format: avi
Focus mode: manual
Picture format: JPG
Magnification times: 1200X
Illuminant: 8 LED lights (brightness adjustable)
Focusing range: 10~40mm（can watch distant view）
PC resolution and image transfer rate: 1280*720/30fps
White balance: automatic
Exposure: automatic
PC operating system: Win7, win8.1, win10, Mac OS x 12 or higher
Supported language: English, Portuguese, Simplified Chinese, Traditional Chinese, Japanese, French, German, Korean, Russian, Spanish, Arabic, Italian, Dutch
Lens construction: 2G+IR
Aperture: F4.5
Lens angle: 16°
Interface and Signal Transmission Mode: Micro/USB2.0
Operating temperature: -20°C ~ +60°C
Operating humidity: 30%~85%RH
Working current: 700mA
Power dissipation: 3.5W

EMC
LVD CE

Wrist High Voltage Alarm



90

VICTOR 90 wrist high-voltage alarm provides a safe, practical and convenient new high-voltage alarm device for live operators. Using non-contact sensing technology, the alarm is accurate, power saving and durable, and the standby time is up to 12 months. The unique automatic trigger detection function of the alarm ensures the safety of live workers.

Technical data

Model	90
Voltage level	1KV/6.6kV/10kV/35kV/66kV/110kV
Features	High pressure alarm
Alarm voltage range	1kV~ 220kV
Alarm distance error	±10cm (23℃+1℃, 80%Rh, under reference conditions)
working frequency	50Hz/60Hz
Electricity test method.	Contactless
Detection mode	auto trigger
Battery Life	Continuous work (sound and light alarm): about 24 hours Standby time: about 12 months
Alarm method.	Indicator light: 8000XL visible LED light under visible light Buzzer: 60dB (60CM apart)
Protection class	IP54
Insulation test	AC3700V/rms (between exposed metal and plastic case)
Working temperature and humidity	-10°C~40°C; below 80%rh
Storage temperature and humidity	-10°C~60°C; below 70%rh

EMC
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High voltage power alarm



90A



90B

High voltage power alarm

VICTOR 90A / 90B high voltage alarm is a new safe, practical and convenient high voltage alarm device suitable for close voltage operators.After wearing the alarm by the operator, when approaching a certain distance from the high voltage charged body, the alarm according to the corresponding safety distance of the voltage level, to remind the electrical staff to pay attention to safety and avoid the high voltage electric shock accident.High voltage alarm above 1kV, non-contact sensing technology, alarm is accurate.The alarm has a unique automatic trigger detection function to ensure the safety of live workers.VICTOR 90A is worn on the upper part of the operator's outermost overalls arm, and VICTOR 90B is mounted on the operator's helmet.

Model	90A 90B
Alarm voltage range	1kVD500kV
Alarm distance error	+10cm (23°C +1°C, 80%RH, under reference conditions)
working frequency	50Hz/60Hz
Test method	Contactless
Detection mode	Auto trigger
Battery Life	Continuous work (sound and light alarm):about 24 hours, standby time: about 12 months
Alarm method	Indicator light: LED light visible under 8000XL visible light Buzzer: 60dB (distance 60CM)
Protection level	IP54
Working temperature and humidity	-10°C~40°C; below 80%RH
Storage temperature and humidity	-10°C~60°C; below 70%RH
power supply	2 CR1632 button batteries
Display size	without
body color	Black+orange
Body weight	About 51g (including battery), About 60g (including battery)
Standard inner packing	Color box
Product Color	Black and Orange
Size	88mmX32mmX30mm

EMC
LVD CE

Magnetic Pole Identification Pen



862M

Overview

Magnetic pole identification pen is a fast, easy and safe tool, which is used to identify the polarity of magnetic field. The N / S polarity can be distinguished by the contact between the probe and the object. This instrument has the characteristics of high identification accuracy, small and light, simple operation and exquisite workmanship. It is a highly sensitive product.

Technical parameter

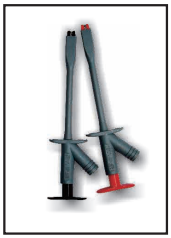
Basic Function	862M
sensitivity	±5mT(50Gs)
display	2 LED lights (red = N pole, green = S pole)
battery	2 batteries, 1.5V AAA
usage time	More than 10 hours
service temperature	-20°C~+80°C
storage temperature	-40°C~+150°C
size	About 156 × 24 × 20mm
weight	About 55g

EMC
LVD CE

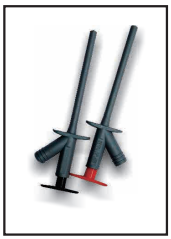
Accessories

VICTOR®

ELECTRONIC TESTING MULTI-FUNCTION PROBE
Product category: general accessories
A scalability probe with safety handle and pressure spring make testing more convenient .
Standard banana interface is adaptable to different test leads .
CAT III 1000V , CAT IV 600V 10A



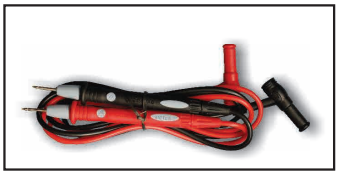
ELECTRONIC TESTING MULTI-FUNCTION PROBE
Product category: general accessories
A scalability small probe with safety handle and pressure spring make testing more convenient .
Standard banana interface is adaptable to different test leads .
CAT III 1000V 10A



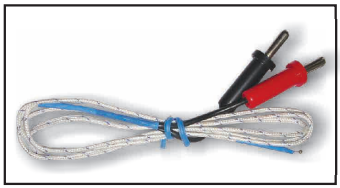
TEST JACK
Product category: Multi-function standard adapter
switching test applies to resistance ,capacitance, triode and diode.



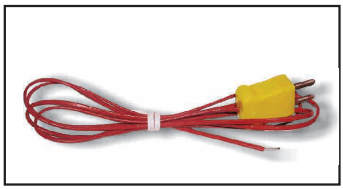
TEST LEADS
Product category: General accessories
Flexible club , full holster and cross jack to ensure the effectiveness of the connection.
Wire length is 900mm , stick length is 105mm ,effective probe is 18mm .
Resistance to low and high temperature : 0℃-40℃
CAT III 1000V 10A



TP01 BANANA TEMPERATURE PROBE
Product category: Temperature probe
Cross jack, applies to general temperature measurement .
Teflon coating insulation .
For liquid and gel temperature measurement
Accuracy : ±0.75%
Testing range : −40℃-250℃ （−40℉-482℉）

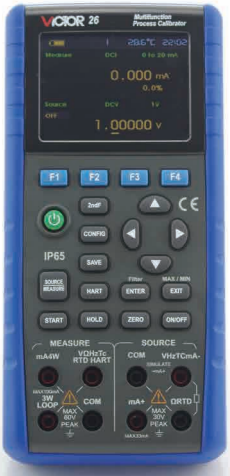


TP01 K TYPE TEMPERATURE PROBE
Product category: Temperature probe
Flat plug input to ensure the effectiveness of the connection.
applies to general temperature measurement.
Accuracy : ±0.75%
Testing range : −40℃-250℃ （−40℉-482℉）



EMC
LVD CE

Multifunction Process Calibrator





26/26H

Protection grade：IP65
Accuracy：±0.01%
HART communication（only VICTOR 26H）
Two independent channels for input and output, allowing in-time input and output operation;

Project		Model / Performance parameters	26	26H
Source	DC millivolt	Range	-10～110mV	-10～110mV
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uV	1uV
	DC voltage	Range	-0.1～11V	-0.1～11V
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	10uV/0.1mV	10uV/0.1mV
	DC current	Range	0～33mA	0～33mA
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
	Sink current	Range	0～33mA	0～33mA
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
		External power supply	5～28V	5～28V
	Resistance	Range	0～4KΩ	0～4KΩ
		Accuracy= ±(% of the set value+% of range)	0.01%+0.01%	0.01%+0.01%
		Resolution	0.01Ω/0.1Ω	0.01Ω/0.1Ω
	Thermocouple	Range	R/S/K/E/J/T/B/N/L/U	R/S/K/E/J/T/B/N/L/U
		Accuracy	0.4℃	0.4℃
		Resolution	0.1℃/1℃	0.1℃/1℃
	RTD	Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.2℃	0.2℃
		Resolution	0.1℃	0.1℃
	Frequency（Hz）	Range	1Hz～50KHz	1Hz～50KHz
		Accuracy	±2words	±2words
		Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
	Frequency（CMP）	Range	60～1200 CPM	60～1200 CPM
		Accuracy	±2words	±2words
		Resolution	1CPM	1CPM
	Pulse	Frequency	1Hz～10KHz	1Hz～10KHz
		Range	1～100000cyc	1～100000cyc
		Accuracy	±2words	±2words
		Resolution	1cyc	1cyc
	Switch	Range	1Hz～50KHz	1Hz～50KHz
		Accuracy	±2words	±2words
		Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
	Pressure	Range	Depends on the pressure module	Depends on the pressure module
		Accuracy= ±(% of the set value+% of range)	Depends on the pressure module	Depends on the pressure module
		Resolution	5 digit display	5 digit display

EMC
LVD

Measurement	DC millivolt	Range	-5～550mV	-5～550mV
		Accuracy= ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uV/10uV	1uV/10uV
	DC voltage	Range	-0.5～35V	-0.5～35V
		Accuracy= ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
		Resolution	0.1mV/1mV	0.1mV/1mV
	DC current	Range	-5～55mA	-5～55mA
		Accuracy ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
		Resolution	1uA	1uA
	Resistance	Range	0～5.5KΩ	0～5.5KΩ
		Accuracy= ±(% of Reading+ % of Range)	0.01%+0.01%	0.01%+0.01%
		Resolution	0.01Ω/0.1Ω	0.01Ω/0.1Ω
	Thermocouple	Range	R/S/K/E/J/T/B/N/L/U	R/S/K/E/J/T/B/N/L/U
		Accuracy	0.5℃	0.5℃
		Resolution	0.1℃/1℃	0.1℃/1℃
	RTD	Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.3℃	0.3℃
		Resolution	0.1℃	0.1℃
	Frequency （Hz）	Range	3Hz～50KHz	3Hz～50KHz
		Accuracy	±2words	±2words
		Resolution	0.01Hz	0.01Hz
	Frequency （CMP）	Range	180～3000000 CPM	180～3000000 CPM
		Accuracy	±2words	±2words
		Resolution	1CPM	1CPM
	Switch	Range	CLOSE/OPEN	CLOSE/OPEN
		Threshold	200～300Ω	200～300Ω
	Pressure	Range	Depends on the pressure module	Depends on the pressure module
		Accuracy= ±(% of Reading+ % of Range)	Depends on the pressure module	Depends on the pressure module
		Resolution	5 digit display	5 digit display
	Pulse	**Range**	1～100000cyc	1～100000cyc
		Accuracy	±2words	±2words
		Resolution	1cyc	1cyc
	Loop power supply	Range	24V	24V
		Accuracy	±10%	±10%
		The maximum current	22mA	22mA
HART			N/A	✓
Other functions	Backlight		✓	✓
	Auto Power-off		✓	✓
	Charging function		✓	✓
	Room temperature display		✓	✓
	Battery detection		✓	✓
	The ramp signal		✓	✓
	Communication function		RS232 serial communication, can realize remote control instrument by the device driver software.	RS232 serial communication, can realize remote control instrument by the device driver software.

Characteristic		
Safety	EN61010-1：2001	EN61010-1：2001
Withstand voltage	The input and output AC350V/1 minutes	The input and output AC350V/1 minutes
Insulation	The input and output DC500V /50MΩ.	The input and output DC500V /50MΩ.
EMC	EN61326-1：2006	EN61326-1：2006
Authentication	CE	CE
Display	3.2" TFT screen	3.2" TFT screen
Power supply	4×1.5V AA Alkaline battery	4×1.5V AA Alkaline battery
Size	206 × 97 × 60 mm	206 × 97 × 60 mm
Weight	about 633g	about 633g
Standard Quantity Per Carton	6pcs	6pcs
Standard Carton Measurement	530mm*405mm*310mm	530mm*405mm*310mm
Standard Carton Gross Weight	12.6kg	12.6kg

* Note: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the highest resolution.

EMC LVD CE

Multifunction Process Calibrator



24/25

Accuracy : ±0.02%

Two independent channels for input and output, allowing in-time input and output operation;

Project		Model / Performance parameters	24	25
Source	DC millivolt	Range	-10～110mV	-10～110mV
		Accuracy= ±(% of the set value+% of range)	0.02%+0.01%	0.02%+0.01%
		Resolution	1uV	1uV
	DC voltage	Range	-0.1～11V	-0.1～11V
		Accuracy= ±(% of the set value+% of range)	0.02%+0.01%	0.02%+0.01%
		Resolution	10uV/0.1mV	10uV/0.1mV
	DC current	Range	0～22mA	0～22mA
		Accuracy= ±(% of the set value+% of range)	0.02%+0.02%	0.02%+0.02%
		Resolution	1uA	1uA
	Sink current	Range	0～22mA	0～22mA
		Accuracy= ±(% of the set value+% of range)	0.02%+0.02%	0.02%+0.02%
		Resolution	1uA	1uA
		External power supply	5～28V	5～28V
	Resistance	Range	0～40KΩ	0～40KΩ
		Accuracy= ±(% of the set value+% of range)	0.02%+0.02%	0.02%+0.02%
		Resolution	0.01Ω/0.1Ω/1Ω	0.01Ω/0.1Ω/1Ω
	Thermocouple	Range	R/S/K/E/J/T/B/N	R/S/K/E/J/T/B/N
		Accuracy	0.4℃	0.4℃
		Resolution	0.1℃/1℃	0.1℃/1℃
	RTD	Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.2℃	0.2℃
		Resolution	0.1℃	0.1℃
	Frequency	Range	1Hz～110KHz	1Hz～110KHz
		Accuracy	±2words	±2words
		Resolution	0.01Hz/1Hz/0.1KHz/2KHz	0.01Hz/1Hz/0.1KHz/2KHz
	Pulse	Frequency		1Hz～10KHz
		Range	N/A	1～100000cyc
		Accuracy		±2words
		Resolution		1cyc
	Switch	Range	N/A	1Hz～110KHz
		Accuracy		±2words
		Resolution		0.01Hz/1Hz/0.1KHz/2KHz
	Pressure	Range	N/A	Depends on the pressure module
		Accuracy= ±(% of the set value+% of range)		Depends on the pressure module
		Resolution		5 digit display

EMC LVD CE

Measure	DC millivolt	Range	-5～550mV	-5～550mV
		Accuracy= ±(% of Reading+ % of Range)	0.02%+0.01%	0.02%+0.01%
		Resolution	1uV/10uV	1uV/10uV
	DC voltage	Range	-0.5～55V	-0.5～55V
		Accuracy= ±(% of Reading+ % of Range)	0.02%+0.01%	0.02%+0.01%
		Resolution	0.1mV/1mV	0.1mV/1mV
	DC current	Range	-5～55mA	-5～55mA
		Accuracy= ±(% of Reading+ % of Range)	0.02%+0.01%	0.02%+0.01%
		Resolution	1uA	1uA
	Resistance	Range	0～5.5KΩ	0～5.5KΩ
		Accuracy= ±(% of Reading+ % of Range)	0.05%+0.02%	0.05%+0.02%
		Resolution	0.01Ω/0.1Ω	0.01Ω/0.1Ω
	Thermocouple	Range	R/S/K/E/J/T/B/N	R/S/K/E/J/T/B/N
		Accuracy	0.7℃	0.7℃
		Resolution	0.1℃/1℃	0.1℃/1℃
	RTD	Range	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50	Pt100/Pt200/Pt500/ Pt1000/Cu10/Cu50
		Accuracy	0.3℃	0.3℃
		Resolution	0.1℃	0.1℃
	Frequency	Range	3 Hz～50KHz	3 Hz～50KHz
		Accuracy	±2words	±2words
		Resolution	0.01Hz/0.1Hz/1Hz	0.01Hz/0.1Hz/1Hz
	Switch	Range	N/A	CLOSE/OPEN
		Threshold		200～300Ω
	Pressure	Range	N/A	Depends on the pressure module
		Accuracy= ±(% of Reading+ % of Range)		Depends on the pressure module
		Resolution		5 digit display
	Continuity beeper	Range	0～500Ω	0～500Ω
		Accuracy	≤50Ωsound	≤50Ωsound
		Resolution	0.01Ω	0.01Ω
	Loop power supply	Range	24V	24V
		Accuracy	±10%	±10%
		The maximum current	22mA	22mA
Other functions	Backlight		✓	✓
	Auto Power-off		✓	✓
	Charging function		✓	✓
	Room temperature display		✓	✓
	Battery detection		✓	✓
	The ramp signal		✓	✓
	Communication function		RS232 serial communication, can realize remote control instrument by the device driver software.	RS232 serial communication, can realize remote control instrument by the device driver software.
	Safety		EN61010-1：2001	EN61010-1：2001
	Withstand voltage		The input and output AC350V/1 minutes	The input and output AC350V/1 minutes
	Insulation		The input and output DC500V /50MΩ	The input and output DC500V /50MΩ
	EMC		EN61326-1：2006	EN61326-1：2006
	Authentication		CE	CE
	Display		Double display on the LCD screen	Double display on the LCD screen
	Power supply		4×1.5V AAA Alkaline battery	4×1.5V AAA Alkaline battery
	Size		205 × 95 × 42 mm	205 × 95 × 42 mm
	Weight		About 500g	About 500g
	Standard Quantity Per Carton		10pcs	10pcs
	Standard Carton Measurement		395mm*385mm*260mm	395mm*385mm*260mm
	Standard Carton Gross Weight		12.4Kg	12.4Kg

* Note: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the

EMC LVD CE

Multifunction Process Calibrator



New Model

24 Pro

NEW type holster

Highest input measurement accuracy of 0.01%

Analog output measurement with the highest accuracy of 0.01%

Technical data

Model			24 Pro
Measure	DC voltage	Range	50mV、500mV、5V、30V
		Resolution	0.001mV、0.01mV、0.1V、0.001V
		Basic accuracy	0.01%+0.01%
	DC current	Range	50mA
		Resolution	0.001mA
		Basic accuracy	0.01%+0.01%
	Resistance	Range	500Ω、5KΩ
		Resolution	0.01Ω、0.1Ω
		Basic accuracy	0.01%+0.01%
		Wire	2Wire、3Wire、4Wire
	Thermocouple	Range	R、S、K、E、J、T、N、B、L、U、A、C、D、G、P、M
		Resolution	0.1°C、1°C
		Basic accuracy	0.5°C
		The reference junction compensation	√
	RTD	Range	Pt100(385)、Pt200(385)、Pt500(385)、Pt1000(385)、Pt100(3916)、Pt100(3926)、Ni120、Cu10、Cu50
		Resolution	0.1°C
		Basic accuracy	0.3°C
		Wire	2Wire、3Wire、4Wire
	Frequency	Range	500Hz、5KHz、50KHz、CPM
		Resolution	0.01Hz、0.1Hz、1Hz、1CPM
		Basic accuracy	±2 words
Source	DC voltage	Range	100mV、1V、10V
		Resolution	0.001mV、0.01mV、0.001V
		Basic accuracy	0.01%+0.01%
	DC current	Range	33mA
		Resolution	0.001mA
		Basic accuracy	0.01%+0.01%
	Resistance	Range	400Ω、4000Ω
		Resolution	0.01Ω、0.1Ω
		Basic accuracy	0.01%+0.01%
	Thermocouple	Range	R、S、K、E、J、T、N、B、L、U、A、C、D、G、P、M
		Resolution	0.1°C、1°C
		Basic accuracy	0.5°C
		The reference junction compensation	√
	RTD	Range	Pt100(385)、Pt200(385)、Pt500(385)、Pt1000(385)、Pt100(3916)、Pt100(3926)、Ni120、Cu10、Cu50
		Resolution	0.1°C
		Basic accuracy	0.3°C
		Wire	2Wire、3Wire、4Wire
	Frequency	Range	100Hz、1KHz、10KHz、50KHz、CPM
		Resolution	0.01Hz、1Hz、0.1KHz、2KHz、1CPM
		Basic accuracy	±2 words
Others	PC Communication		Infrared isolated USB
	HART		√
	24V loop power supply and measuring the current		√
Power Supply			4*1.5V AA or Special AC adapter(option)
Display			TFT

EMC LVD CE



11 Pro



14 Pro



15 Pro

EMC
LVD

Technical data

Model			11 Pro	14 Pro	15 Pro
Input measurement	DCV	Range	/	50mV/500mV/5V/30V	50mV/500mV/5V/30V
		Precision	/	0.01%+0.01%	0.01%+0.01%
	DCA	Range	/	/	50mA
		Precision	/	/	0.01%+0.01%
	Resistance	Range	/	500Ω、5KΩ	/
		Precision	/	0.01%+0.01%	/
		Wire	/	Two-wire system, three-wire system, four-wire system	/
	TC	Range	/	R/S/K/E/J/T/N B/L/U/A/C/D/G/P/M	/
		Precision	/	0.7°C	/
		Cold end compensation	/	Yes	/
	RTD	Range	/	Pt100(385)/Pt200(385)/Pt500(385) Pt1000(385)/Pt100(3916) Pt100(3926)/Ni120/Cu10/Cu50	/
		Precision	/	0.3°C	/
		Wire	/	Two-wire system, three-wire system, four-wire system	/
	Frequency	Range	/	/	500Hz/5KHz/50KHz/CPM
		Precision	/	/	±2
	Switch quantity measurement		/	/	CLOSE / OPEN
	Pressure		/	/	Depending on the pressure module
Analog output	DCV	Range	100mV/1V/10V	100mV/1V/10V	100mV/1V/10V
		Precision	0.01%+0.01%	0.01%+0.01%	0.01%+0.01%
	DCA	Range	33mA	/	33mA
		Precision	0.01%+0.01%	/	0.01%+0.01%
	Resistance	Range	400Ω/4000Ω	400Ω/4000Ω	/
		Precision	0.01%+0.01%	0.01%+0.01%	/
	TC	Range	R/S/K/E/J/T/N B/L/U/A/C/D/G/P/M	R/S/K/E/J/T/N B/L/U/A/C/D/G/P/M	/
		Precision	0.7°C	0.7°C	/
		Cold end compensation	Yes	Yes	/
	RTD	Range	Pt100(385)/Pt200(385)/Pt500(385) Pt1000(385)/Pt100(3916) Pt100(3926)/Ni120/Cu10/Cu50	Pt100(385)/Pt200(385)/Pt500(385) Pt1000(385)/Pt100(3916) Pt100(3926)/Ni120/Cu10/Cu50	/
		Precision	0.3°C	0.3°C	/
	Frequency	Range	100Hz/1KHz/10KHz/ 50KHz/CPM	/	100Hz/1KHz/10KHz/ 50KHz/CPM
		Precision	±2	/	±2
	Pulse	Range	100000 cycles	/	100000 cycles
		Precision	±2	/	±2
	Switch quantity	Range	100Hz/1KHz/10KHz/50KHz	/	100Hz/1KHz/10KHz/50KHz
		Precision	±2	/	±2
PC Communication			Infrared isolated USB	Infrared isolated USB	Infrared isolated USB
24V circuit power supply			/	/	Yes
Output resistance excitation current			Constant current/pulse	Constant current/pulse	/
Cold end compensation			Manual/Automatic	Manual/Automatic	/
Power supply			4×AA	4×AA	4×AA
Display			TFT	TFT	TFT

EMC LVD CE



New Model

11+

14+

15+

Technical data

Project		Model / Performance parameters	NEW 11 +	NEW 14+	NEW 15 +
Source	DC millivolt	Range	100mV	100mV	/
		"Accuracy= ±(% of the set value+% of range)"	0.02%+0.01%	0.02%+0.01%	
		Resolution	1uV	1uV	
	DC voltage	Range	1V、10V	1V	1V、10V
		"Accuracy= ±(% of the set value+% of range)"	0.02%+0.01%	0.02%+0.01%	0.02%+0.01%
		Resolution	10uV、0.1mV	10uV	10uV、0.1mV
	DC current	Range	20mA	/	20mA
		"Accuracy= ±(% of the set value+% of range)"	0.02%+0.02%		0.02%+0.02%
		Resolution	1uA		1uA
	Sink current	Range	20mA	/	20mA
		"Accuracy ±(% of the set value+% of range)"	0.02%+0.02%		0.02%+0.02%
		Resolution	1uA		1uA
		External power supply	5 ～ 28V		5 ～ 28V
	Resistance	Range	400Ω、4KΩ	400Ω、4KΩ	/
		"Accuracy= ±(% of the set value+% of range)"	0.02%+0.02%	0.02%+0.02%	
		Resolution	0.01Ω、0.1Ω	0.01Ω、0.1Ω	
	Frequency	Range	100Hz、1KHz、10KHz、50KHz、1200CPM	/	100Hz、1KHz、10KHz、50KHz、1200CPM
		Accuracy	±5 digits、±1CPM		±5 digits、±1CPM
		Resolution	0.001Hz、0.1Hz、0.01KHz、0.1KHz、1CPM		0.001Hz、0.1Hz、0.01KHz、0.1KHz、1CPM
	Pulse	Frequency	Refer to relevant frequency index	/	Refer to relevant frequency index
		Range	100000cyc		100000cyc
		Accuracy	±2digits		±2 digits
		Resolution	1cyc		1cyc

EMC LVD CE

Technical data

Project		Model / Performance parameters	NEW 11 +	NEW 14+	NEW 15 +
Source	Switch	Range	100Hz、1KHz、10KHz、50KHz	/	100Hz、1KHz、10KHz、50KHz
		Accuracy	±5 digits		±5 digits
		Resolution	0.001Hz、0.1Hz、0.01KHz、0.1KHz		0.001Hz、0.1Hz、0.01KHz、0.1KHz
	Thermocouple	Range	16types(R、S、K、E、J、T、B、N、L、U、A、C、D、G、P、M)	16types(R、S、K、E、J、T、B、N、L、U、A、C、D、G、P、M)	/
		Accuracy	0.4℃	0.4℃	
		Resolution	0.1℃、1℃	0.1℃、1℃	
	RTD	Range	9types(Pt100(385)、Pt200(385)、Pt500(385)、Pt1000(385)、Pt100(3916)、Pt100(3926)、Ni120、Cu10、Cu50)	9types(Pt100(385)、Pt200(385)、Pt500(385)、Pt1000(385)、Pt100(3916)、Pt100(3926)、Ni120、Cu10、Cu50)	/
		Accuracy	0.2℃	0.2℃	
		Resolution	0.1℃	0.1℃	
Measure	DC millivolt	Range	/	50mV、550mV	500mV
		"Accuracy= ±(% of Reading+ % of Range)"		0.02%+0.01%	0.02%+0.02%
		Resolution		1uV、10uV	10uV
	DC voltage	Range	/	/	5V、30V
		"Accuracy= ±(% of Reading+ % of Range)"			0.02%+0.01%
		Resolution			0.1mV、1mV
	DC current	Range	/	/	50mA
		"Accuracy= ±(% of Reading+ % of Range)"			0.02%+0.01%
		Resolution			1uA
	Resistance	Range	/	500Ω、5KΩ	/
		"Accuracy= ±(% of Reading+ % of Range)"		0.05%+0.02%	
		Resolution		0.01Ω、0.1Ω	
	Frequency	Range	/	/	500Hz、5KHz、50KHz、100000CPM
		Accuracy			±2 digits、±1CPM
		Resolution			0.01Hz、0.1Hz、1Hz、1CPM
	Pressure	Range	/	/	Depends on the pressure module
		"Accuracy= ±(% of Reading+ % of Range)"			
		Resolution			5 digit display
	Loop power supply	Range	/	/	24V
		Accuracy			±10%
		The maximum current			22mA
	Thermocouple	Range	/	16types(R、S、K、E、J、T、B、N、L、U、A、C、D、G、P、M)	/
		Accuracy		0.7℃	
		Resolution		0.1℃、1℃	
	RTD	Range	/	9types(Pt100(385)、Pt200(385)、Pt500(385)、Pt1000(385)、Pt100(3916)、Pt100(3926)、Ni120、Cu10、Cu50)	/
		Accuracy		0.5℃	
		Resolution		0.1℃	
	Continuity beeper	Range	/	500Ω	CLOSE/OPEN
		Accuracy		≤50Ω Sound	≤250Ω Sound
		Resolution		0.01Ω	/
Other functions	Backlight		√	√	√
	Auto Power-off		√	√	√
	Room temperature display		√	√	/
	Battery detection		√	√	√
	Communication function		Infrared isolated USB	Infrared isolated USB	Infrared isolated USB
	* /te: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the highest resolution.				

EMC LVD CE TÜV SÜD ISO 9001

Hart Loop Calibrator

VICTOR®

709H

Protection grade：IP65
Accuracy： ±0.01%
HART communication



Project		Referencemodel / Performance parameters	709H
Source	DC current（DCmA）	Range	0.000～22.000mA
		Accuracy ±(% of the set value +% of range)	0.01%+0.015%
		Resolution	1uA
	Analog transmitter（SIMULATE）	Range	0.000～22.000mA
		Accuracy ±(% of the set value +% of range)	0.01%+0.015%
		Resolution	1uA
		External power supply	5 ～ 28V
Measurement	DC voltage（DCV）	Range	-2.000～28.000V
		Accuracy ±(% of Reading+ % of Range)	0.01%+0.01%
		Resolution	1mV
	DC current（DCmA）	Range	-4.000～33.000mA
		Accuracy ±(% of Reading+ % of Range)	0.01%+0.01%
		Resolution	1uA
	Loop power supply（LOOP）	Range	24V
		The maximum current	22mA
		Driving ability	No HART resistance of 1KΩ. HART resistance is 750 Ω.
HART communication		Support HART general instructions and general application instructions. Able to read	
Other functions	Protection grade	IP65	
	Backlight	✓	
	Backlight brightness adjustment	✓	
	25%、100%step output	✓	
	Automatic ramp	✓	
	Automatic step	✓	
	mA、%Switch the display	✓	
	Auto Power-off	✓	
	Power Adaptation function	✓	
	Battery Low display	✓	
	PC online communication	Compatible with infrared isolation USB serial communication interface. can realize remote control instrument	
Characteristic			
Electrical safety		EN61010-1 ： 2001	
Insulation		DC500V /50MΩ	
EMC		EN61326-1：2006	
Authentication		CE	
Display		3.2 inch TFT color display	
Power supply		4×1.5V AA Alkaline battery / adapter	
Size		206 × 97 × 60 mm	
Weight		About600g	
Standard Quantity Per Carton			
Standard Carton Measurement			
Standard Carton Gross Weight			

EMC
LVD CE

0S Calibrator



New Model

01S

NEW type holster
Accuracy： ±0.05%

	Output function	Range	Output range	Resolution	Accuracy	
01S	DC voltage	100mV	-10.000mV~110.00mV	0.01mV	0.05%+0.03mV	
	DCV	1V	-0.1000V~1.1000V	0.0001V	0.05%+0.3mV	
	Ohm	400Ω	0~400.0Ω	0.1Ω	0.05%+0.2Ω	
	OHM	4KΩ	0~4.000KΩ	1Ω	0.05%+2Ω	
	Thermocouple TC	R	0℃~1767℃	1℃	0~100℃/10~1767℃	1.5℃/1.2℃
		S	0℃~1767℃		0~100℃/100~1767℃	1.5℃/1.2℃
		K	-200.0℃~1372.0℃	0.1℃	-200.0~-100.0℃/-100.0~400.0℃/400.0~1200.0℃/1200.0~1372.0℃	0.6℃/0.5℃/0.7℃/0.9℃
		E	-200.0℃~1000.0℃		-200.0~-100.0℃/-100.0~600.0℃/600.0~1000.0℃	0.6℃/0.5℃/0.4℃
		J	-200.0℃~1200.0℃		-200.0~-100.0℃/-100.0~800.0℃/800.0~1200.0℃	0.6℃/0.5℃/0.7℃
		T	-250.0℃~400.0℃		-250.0~400.0℃	0.6℃
		N	-200.0℃~1300.0℃		-200.0~-100.0℃/-100.0~900.0℃/900.0~1300.0℃	1.0℃/0.7℃/0.8℃
		B	600℃~1820℃	1℃	600~800℃/800~1820℃	1.5℃/1.1℃
		A	0℃~2500℃	1℃	0~1600℃/1600~2000℃/2000~2500℃	2.0℃/2.2℃/2.4℃
		C	0℃~2310℃	1℃	0~1600℃/1600~2000℃/2000~2310℃	2.0℃/2.2℃/2.4℃
		D	0℃~2310℃	1℃	0~100℃/100~270℃/270~1200℃/270~2310℃	2.6℃/2.4℃/2.2℃/2.4℃
	Thermal resistance RTD	Pt100 385	-200.0℃~800.0℃	0.1℃	-200.0~0.0℃/0.0~400.0℃/400.0~800.0℃	0.3℃/0.5℃/0.8℃
		Pt200 385	-200.0℃~630.0℃		-200.0~100.0℃	0.8℃/0.9℃/1.0℃
		Pt500 385	-200.0℃~630.0℃		100.0~300.0℃	0.4℃/0.5℃/0.7℃
		Pt1000 385	-200.0℃~630.0℃		300.0~630.0℃	0.2℃/0.5℃/0.7℃
		Cu50	-50.0℃~150.0℃		0.6℃	



04S/05S

NEW type holster
Accuracy： ±0.05%

	Output function	Range	Output range	Resolution	Accuracy
04S	DC voltage DCV	10V	-1.000V-11.000V	0.001V	0.05%+2mV
	DC current DCI	30mA	0.000mA-30.000mA	0.001mA	0.05%+4uA
05S	DC current DCI	30mA	0.000mA-30.000mA	0.001mA	0.05%+4uA
	Measurement function	**Range**	**Measurement range**	**Resolution**	**Accuracy**
05S	DC voltage DCV	35V	-35.000V~35.000V	0.001V	0.02%+2mV
	DC current DCI	30mA	-35.000mA~35.000mA	0.001mA	0.02%+4uA
	Loop power supply LOOP	24 V			10%

EMC
LVD CE

0S Calibrator



New Model

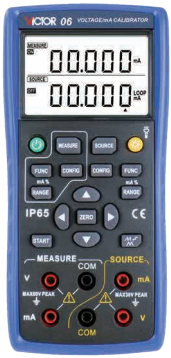
02S

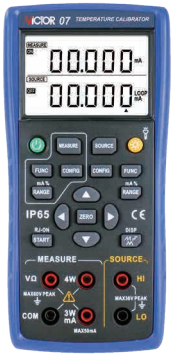
NEW type holster
Accuracy : ±0.05%

Output function		Range	Output range	Resolution	Accuracy	
02S	DC voltage	100mV	-10.000mV~110.00mV	0.01mV	0.05%+0.03mV	
	DCV	1V	-0.1000V~1.1000V	0.0001V	0.05%+0.3mV	
	Ohm	400Ω	0~400.0Ω	0.1Ω	0.05%+0.2Ω	
	OHM	4KΩ	0~4.000KΩ	1Ω	0.05%+2Ω	
	Thermocouple TC	R	0℃~1767℃	1℃	0~100℃/10~1767℃	1.5℃/1.2℃
		S	0℃~1767℃		0~100℃/100~1767℃	1.5℃/1.2℃
		K	-200.0℃~1372.0℃	0.1℃	-200.0~-100.0℃/-100.0~400.0℃/400.0~1200.0℃/1200.0~1372.0℃	0.6℃/0.5℃/0.7℃/0.9℃
		E	-200.0℃~1000.0C		-200.0~-100.0℃/-100.0~600.0℃/600.0~1000.0℃	0.6℃/0.5℃/0.4℃
		J	-200.0℃~1200.0℃		-200.0~-100.0℃/-100.0~800.0℃/800.0~1200.0℃	0.6℃/0.5℃/0.7℃
		T	-250.0℃~400.0℃		-250.0~400.0℃	0.6℃
		N	-200.0℃~1300.0℃		-200.0~-100.0℃/-100.0~900.0℃/900.0~1300.0℃	1.0℃/0.7℃/0.8℃
		B	600℃~1820℃	1℃	600~800℃/800~1820℃	1.5℃/1.1℃
		A	0℃~2500℃	1℃	0~1600℃/1600~2000℃/2000~2500℃	2.0℃/2.2℃/2.4℃
		C	0℃~2310℃	1℃	0~1600℃/1600~2000℃/2000~2310℃	2.0℃/2.2℃/2.4℃
		D	0℃~2310℃	1℃	0~100℃/100~270℃/270~1200℃/270~2310℃	2.6℃/2.4℃/2.2℃/2.4℃
	Thermal resistance RTD	Pt100 385	-200.0℃~800.0℃	0.1℃	-200.0~0.0℃/0.0~400.0℃/400.0~800.0℃	0.3℃/0.5℃/0.8℃
		Pt200 385	-200.0℃~630.0℃		-200.0~100.0℃	0.8℃/0.9℃/1.0℃
		Pt500 385	-200.0℃~630.0℃		100.0~300.0℃	0.4℃/0.5℃/0.7℃
		Pt1000 385	-200.0℃~630.0℃		300.0~630.0℃	0.2℃/0.5℃/0.7℃
		Cu50	-50.0℃~150.0℃		0.6℃	

Measurement function		Range	Measurement range	Resolution	Accuracy	
02S	DC voltage	100mV	-110.00mV~110.00mV	0.01mV	0.05%+0.03mV	
	DCV	1V	-1.1000V~1.1000V	0.0001V	0.05%+0.3mV	
		35V	-35.000V~35.000V	0.001V	0.02%+2mV	
	Resistance	500Ω	0~550.00Ω	0.01Ω	0.05%+0.2Ω	
	OHM	5KΩ	0~5.5000KΩ	0.0001KΩ	0.05%+2Ω	
	Thermocouple TC	R	0℃~1767℃	1℃	0~500℃	2.5℃
		S	0℃~1767℃		500~1767℃	2℃
		K	-100.0℃~1372.0℃	0.1℃	-100.0~0.0℃/0.0~1372.0℃	1.2℃/0.8℃
		E	-50.0℃~1000.0℃		-50.0℃~0.0℃/0.0~1000.0℃	0.9℃/1.5℃
		J	-60.0℃~1200.0℃		-60.0~0.0℃/0.0~1200.0℃	1.0℃/0.7℃
		T	-100.0℃~400.0℃		-100.0~0.0℃/0.0~400.0℃	1.0℃/0.7℃
		N	-200.0℃~1300.0℃		-200.0~0.0℃/0.0~1300.0℃	1.5℃/0.9℃
		B	600℃~1820℃	1℃	600~800℃/800~1000℃/1000~1820℃	2.2℃/1.8℃/1.4℃
		A	0℃~2500℃	1℃	0~1600℃/1600~2000℃/2000~2500℃	2.0℃/2.2℃/2.4℃
		C	0℃~2310℃	1℃	0~1600℃/1600~2000℃/2000~2310℃	2.0℃/2.2℃/2.4℃
		D	0℃~2310℃	1℃	0~100℃/100~270℃/270~1200℃/270~2310℃	2.6℃/2.4℃/2.2℃/2.4℃
	Thermal resistance RTD (4W)	Pt100 385	-200.0℃~800.0℃	0.1℃	-200.0~0.0℃/0.0~400.0℃/400.0~800.0℃	0.5℃/0.7℃/0.8℃
		Pt200 385	-200.0℃~630.0℃		-200.0~100.0℃/100.0~300.0℃/300.0~630.0℃	0.8℃/0.9℃/1.0℃
		Pt500 385	-200.0℃~630.0℃		-200.0~100.0℃/100.0~300.0℃/300.0~630.0℃	0.4℃/0.5℃/0.7℃
		Pt1000 385	-200.0℃~630.0℃		-200.0~100.0℃/100.0~300.0℃/300.0~630.0℃	0.3℃/0.5℃/0.7℃
		Cu50	-50.0℃~150.0℃		-50.0~150.0℃	0.7℃
	On/off detection	500Ω	≤50Ω sounding	0.01Ω		

EMC
LVD CE





New Model

06/07

NEW type holster

Accuracy:0.05%

Technical data

Project			V/mA Calibrator 06	Temperature Calibrator 07
Measure	DC voltage	Range	100mV、1V、35V	100mV、1V、35V
		Resolution	0.01mV、0.1mV、1mV	0.01mV、0.1mV、1mV
		Basic accuracy	0.05%+0.03mV	0.05%+0.03mV
	Resistance	Range	/	500Ω、5KΩ
		Resolution		0.01Ω、0.1Ω
		Basic accuracy		0.05%+0.2Ω
	DC current	Wire		2W、3W、4W
		Range	30mA	30mA
		Resolution	0.001mA	0.001mA
		Basic accuracy	0.02%+4uA	0.02%+4uA
	Thermocouple	Range	/	E、K、J、T、N、R、S、B、A、C、D
		Resolution		0.1°C、1°C
		Basic accuracy		0.7°C
		The reference junction compensation		√
	RTD	Range	/	Cu50、Pt100、Pt200、Pt500、Pt1000
		Resolution		0.1°C
		Basic accuracy		0.3°C
		Wire		2W、3W、4W
Source	DC voltage	Range	10V	100mV、1V、10V
		Resolution	0.001V	0.01mV、0.1mV、1mV
		Basic accuracy	0.05%+2mV	0.05%+0.03mV
	Resistance	Range	/	400Ω、4000Ω
		Resolution		0.1Ω、1Ω
		Basic accuracy		0.05%+0.2Ω
	DC current	Range	20mA	20mA
		Resolution	0.001mA	0.001mA
		Basic accuracy	0.05%+4uA	0.05%+4uA
	Thermocouple	Range	/	E、K、J、T、N、R、S、B、A、C、D
		Resolution		0.1°C、1°C
		Basic accuracy		0.7°C
		The reference junction compensation		√
	RTD	Range	/	Pt100、Pt200、Pt500、Pt1000、Cu50
		Resolution		0.1°C
		Basic accuracy		0.3°C
Other	Simulating transmitter		√	√
	25%, 100% step output		√	√
	Automatic ramp		√	√
	Automatic step		√	√
	Display current and % of span		√	√
	The 24V loop power supply and measuring the current		√	√
	°C/ °F conversion		/	√
Power Supply			3×AA	3×AA
Auto Power-off			√	√
Backlight			√	√
Size			180×90×52	180×90×52
Weight			About 1kg	About 1kg
Accessories			Test line、manual	Test line、manual、Thermocouple adapter
Standard Quantity Per Carton			10PCS	10PCS
Standard Carton Measurement			395mm*385mm*260mm	395mm*385mm*260mm
Standard Carton Cross Weight			11.5Kg	11.5Kg

EMC
LVD CE



77+



79A+



79+

EMC
LVD

Process Multimeter

Project			77+	78+	79+	79A+
Measurement	DC voltage	Range	±51V	60mV-1000V	60mV-1000V	50mV-1000V
		The highest resolution	10mV	0.01mV	0.01mV	0.01mV
		Basic accuracy	0.5%	0.2%	0.2%	0.1%
	AC voltage	Range	510V	6V-600V	6V-600V	1000V
		The highest resolution	100mV	0.1mV	0.1mV	0.1mV
		Basic accuracy	1.5%	0.5%	0.5%	0.5%
	VFC	AC Voltage	✓	600V	600V	500V
	Resistance	Range	5kΩ	600Ω-60MΩ	600Ω-60MΩ	50MΩ
		The highest resolution	1Ω	0.1Ω	0.1Ω	0.1Ω
		Basic accuracy	0.5%	0.2%	0.2%	0.1%
	DC current	Range	±50mA	600mA	600mA	±500mA
		The highest resolution	10uA	10uA	10uA	1uA
		Basic accuracy	0.1%+4	0.2%	0.2%	0.1%
	AC current	Range	N/A	600mA	600mA	500mA
		The highest resolution		10uA	10uA	1uA
		Basic accuracy		0.5%	0.5%	0.5%
	Thermocouple	Range	N/A	N/A	R、S、B、E、K、J、T、N	R、S、B、E、K、J、T、N
		The highest resolution			1°C	1°C
		Basic accuracy			0.5%	0.5%
	RTD	Range	N/A	N/A	Cu50、Pt100、Pt1000	Cu50、Pt100、Pt1000
		The highest resolution			1°C	1°C
		Basic accuracy			0.5%	0.5%
	CAP	Range	N/A	N/A	N/A	1000μF
		The highest resolution				0.01nF
		Basic accuracy				5%
	Frequency		N/A	10Hz~10kHz	10Hz~10kHz	10Hz~10kHz
	Diode test		✓	✓	✓	✓
	Continuity beeper		✓	✓	✓	✓
	Data hold		✓	✓	✓	✓
	Relative value measurement		N/A	✓	✓	✓
Source	DC voltage	Range	-1V-11V	100mV-10V	100mV-10V	100mV-10V
		Resolution	0.01V	0.1mV、1mV	0.01mV、0.1mV	0.001mV、0.01mV、0.1mV
		Basic accuracy	0.2%+4	0.2%	0.2%	0.2%
	Resistance	Range	N/A	N/A	0~400.0Ω	4kΩ
		Resolution			0.1Ω	0.1Ω
		Basic accuracy			0.05%+2	0.2%
	DC current	Range	22mA	30mA	30mA	30mA
		Resolution	0.001mA	0.01mA	0.001mA	0.001mA
		Basic accuracy	0.2%	0.2%	0.2%	0.2%
	Simulating transmitter		✓	✓	✓	✓
	25%、100%Step output		✓	✓	✓	✓
	Automatic ramp		N/A	✓	✓	✓
	Automatic step		N/A	✓	✓	✓
	Display current and % of span		✓	✓	✓	✓
	Loop power		24V	24V	24V	24V
	Frequency		N/A	100Hz-10kHz	100Hz-10kHz	1.0Hz~11.0kHz
	Thermocouple		N/A	N/A	R、S、B、E、K、J、T、N	R、S、B、E、K、J、T、N
	RTD		N/A	N/A	Cu50、Pt100、Pt1000	Cu50、Pt100、Pt1000
Loop detection	The 24V loop power supply		✓	✓	✓	✓
	Built in 250Ω		✓	✓	✓	✓
Power Supply			3×1.5V AA Alkaline battery	4×1.5V AAA Alkaline battery	4×1.5V AAA Alkaline battery	4×1.5V AA Alkaline battery
Auto Power-off			✓	✓	✓	✓
Backlight			N/A	✓	✓	✓
Safety			CAT Ⅳ 600V Pollution degree 2	CAT Ⅳ 600V Pollution degree 2	CAT Ⅳ 600V Pollution degree 2	CAT Ⅳ 600V Pollution degree 2
Size			180×90×52	205×95×42	205×95×42	206× 97× 60
Weight			About 400g	About 500g	About 500g	about 1600g
Accessories			Test line、manual、fuse	Test line、manual、fuse	Test line、manual、fuse	Test line、manual、fuse
Standard Quantity Per Carton			12pcs	10pcs	10pcs	6pcs
Standard Carton Measurement			395mm*385mm*260mm	395mm*385mm*260mm	395mm*385mm*260mm	395mm*385mm*260mm
Standard Carton Gross Weight			9.2Kg	9.8Kg	10.2Kg	10.5Kg

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PCE01/02 Pressure Calibration Instrument



PCE01/02 Pressure Calibration Instrument includes process calibration device, communication cable for pressure module, pressure transformation joint, high accuracy pressure module and common thread transformation joint. Cooperate use of the Instrument with pressure manual pump suit can make Users' pressure calibration more convenient. This Instrument is widely used in measurement, petroleum, chemical, power, metallurgy, national defense and instrument manufacture industries for precise measurement and calibration of pressure measurement.

PCE01/02 pressure calibration instrument, a perfect combination of electric signal calibration and pressure signal calibration.

1.Features of the Pressure Calibration Instrument:

- Can make on-spot calibration of various pressure instruments or equipments, provide with 20 pressure modules of different types and ranges, the pressure calibration range is from -100KPA~60MPA with 0.05% high accuracy.
- Can measure and output electric signals of DC voltage, DC current, Ohms, frequency, thermocouples, RTD with basic accuracy as high as 0.02%(specific functions are set by the configuration selected by Users).
- Can simulate transmitter, provide 24V DC power.
- Portable suitcase, system-wide configurations, convenient to use and carry.
- Selectable pressure manual pump to make the calibration much easier.

2.pressure calibration device configuration table

Serial number	Part name	Model /specification	Number	Remarks
1	Multifunctional process calibrator	25	1	Only PCE02
2	V/mA/pressure calibrator	15+	1	Only PCE01
3	VPM-S seriesdigital pressure module	20 kinds of optional	1	You can select multiple
4	CALCP pressure adapter	A000018	1	
5	Communication cable	A000046	1	
6	The adapter	1/4 NPT internal thread 1/4 BSP external thread	1	Options
7	The adapter	M20*1.5internal thread 1/4 BSP external thread	1	Options
8	Handpump	K/P/-0.85~25BAR	1	Options
9	Hand pump	HTP1/0~700BAR Attached: portable box 1, hose 1, all kinds of pressure adapter 8, kettle 1, the sealing gasket several	1	Options

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PCE03/04 Pressure Calibration Equipment Introduce





PCE03/04 Pressure Calibration Equipment includes a process calibrator, pressure module communication cable, high accuracy pressure module and a usual thread adapter. used in conjunction with pressure hand pump kit, Let users pressure calibration more simple and convenient. The equipment can be used to precision pressure test and pressure calibration in metrology, petroleum, chemical, power, metallurgy, national defense and instrument manufacturing industry.

PCE03/04 Pressure Calibration Equipment is a perfect combination of electrical signal and pressure signal calibration.

1.Pressure Calibration Equipment characteristic

- Pressure Calibration Equipment can calibrate different types of pressure instrument or equipment, and it can equipped with 20 different types, different range pressure module, pressure calibration range from -100KPA to 60MPA, the accuracy up to 0.05%.
- Measurement and Output DC voltage, DC current, Ohm, Frequency, Thermocouple, Thermal resistance, almost all electrical signals. basic accuracy up to 0.02% (particular functions depending on the user 's configuration).
- Pressure Calibration Equipment can simulate the transmitter, 24V DC power supply.
- Portable suitcase, systematism configuration, convenient use and portability.
- User can choose with pressure hand pump, so that the pressure calibration easier.

2.Pressure Calibration Equipment configuration table

serial number	Configurationitem	Model	Number	Remark
1	Multifunction Process Calibrator	26	1	Only PCE03
2	Multifunction Process Calibrator	26H	1	Only PCE04
3	VPM-S series digital pressure module	More than 20 kinds of types	1	User can select one or more
4	Communication cable	A000046	1	
5	Threadadapter	1/4 NPTfemaleto 1/4 BSP male	1	Options
6	Threadadapter	M20*1.5femaleto 1/4 BSP male	1	Options

Note：1, 2, 3, 4, items details please see the "product catalog".

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VPM-S series digit pressure module introduce



Feature :

VPM-S series digit pressure module contains more pressure type, such as gauge, compound and absolute; Self temperature compensation; Digital communication mode;the modules are compatible with YITENSEN calibrators; performance to meet almost any calibration and measurement task.

- High measure accuracy : 0. 05% F. S. , temperature coefficient is ±0. 001%/℃
- Wide measure range : -0. 1~60MPa, more than a score of pressure ranges
- Wide temperature compensate range : from 0 to 50ºC
- More Pressure Type : gauge, absolute and compound pressure modules available
- Digit communication output : pressure resolution is 5 digits, support exchange of pressure modules without setup and calibration.
- Self contained calibration : Calibration data are stored and processed inside the VPM. Enabling calibration and traceability follows the module。
- Portable and rugged construction: Engineered for rough field use, almost unbreakable.
- The VPM-S series digit pressure modules are compatible with YITENSEN25 or YITENSEN15+ calibrators.

Pressure Module Model、Range & Acc.

Model	Range(kPa)	Range(bar)	Range(psi)	Sensor type	Pressure	Accuracy (%) 0~50℃
VPM100KGS	0~100KPa	0~1bar	0~15psi	isolated、316 stainless steel	gauge	0.05
VPM200KGS	0~200KPa	0~2bar	0~30psi	isolated、316 stainless steel	gauge	0.05
VPM500KGS	0~500KPa	0~5bar	0~72psi	isolated、316 stainless steel	gauge	0.05
VPM001MGS	0~1MPa	0~10bar	0~150psi	isolated、316 stainless steel	gauge	0.05
VPM002MGS	0~2MPa	0~20bar	0~300psi	isolated、316 stainless steel	gauge	0.05
VPM005MGS	0~5MPa	0~50bar	0~725psi	isolated、316 stainless steel	gauge	0.05
VPM010MGS	0~10MPa	0~100bar	0~1500psi	isolated、316 stainless steel	gauge	0.05
VPM020MGS	0~20MPa	0~200bar	0~3000psi	isolated、316 stainless steel	gauge	0.05
VPM040MGS	0~40MPa	0~400bar	0~5800psi	isolated、316 stainless steel	gauge	0.05
VPM060MGS	0~60MPa	0~600bar	0~8700psi	isolated、316 stainless steel	gauge	0.05
VPM100KAS	0~100KPa	0~1bar	0~15psi	isolated、316 stainless steel	vacuum	0.05
VPM200KAS	0~200KPa	0~2bar	0~30psi	isolated、316 stainless steel	vacuum	0.05
VPM500KAS	0~500KPa	0~5bar	0~72psi	isolated、316 stainless steel	vacuum	0.05
VPM001MAS	0~1MPa	0~10bar	0~150psi	isolated、316 stainless steel	absolute	0.05
VPM002MAS	0~2MPa	0~20bar	0~300psi	isolated、316 stainless steel	absolute	0.05
VPM005MAS	0~5MPa	0~50bar	0~725psi	isolated、316 stainless steel	absolute	0.05
VPM010MAS	0~10MPa	0~100bar	0~1500psi	isolated、316 stainless steel	absolute	0.05
VPM020MAS	0~20MPa	0~200bar	0~3000psi	isolated、316 stainless steel	absolute	0.05
VPM100KCS	-100~100KPa	-1~1bar	-15~15psi	isolated、316 stainless steel	Compound	0.05
VPM200KCS	-100~200KPa	-1~2bar	-15~30psi	isolated、316 stainless steel	Compound	0.05
VPM500KCS	-100~500KPa	-1~7bar	-15~100psi	isolated、316 stainless steel	Compound	0.05
VPM001MCS	-0.1~1MPa	-1~10bar	-15~150psi	isolated、316 stainless steel	Compound	0.05
VPM002MCS	-0.1~2MPa	-1~20bar	-15~300psi	isolated、316 stainless steel	Compound	0.05

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Insulation Tester



60F/60G/60H

Technical data

Function		60F	60G	60H
Insulation resistance	Resistance range	50V /200MΩ	N/A	N/A
		100V / 500MΩ	N/A	100V / 200MΩ
		250V / 2000MΩ	250V /2000M	250V / 500MΩ
		500V /5GΩ	500V /5GΩ	500V /1GΩ
		1000V /10GΩ	1000V /10GΩ	1000V /20GΩ
		1500V /20GΩ	N/A	N/A
		2000V /50GΩ	N/A	N/A
		2500V /100GΩ	2500V /50GΩ	N/A
Voltage test	DC Range	0 ~ 1000V	30 ~ 1000V	0 ~ 1000V
	AC Range	30 ~ 750V	30 ~ 750V	30 ~ 750V
PI		√	√	√
DAR		√	√	√
COMP		√	√	√
Short circuit current		About 1.3mA	About 1.3mA	About 1.3mA
TIME		√	√	√
Automatic release voltage		√	√	√
Power Supply		Alkaline battery1.5V (LR6) ×The 8 section	Alkaline battery1.5V (LR6) ×The 8 section	Alkaline battery1.5V (LR6) ×The 8 section
Automatic shutdown		√	√	√
Backlight		The white LED	The white LED	The white LED
Storage		100 groups	100 groups	100 groups
adapter interface		√	√	√
Size		178(L)×110(W)×59(D)mm	178(L)×110(W)×59(D)mm	178(L)×110(W)×59(D)mm
Weight		About600g(Does not contain a battery)	About600g(Does not contain a battery)	About600g(Does not contain a battery)
Standard Quantity Per Carton		12 pcs	12 pcs	12 pcs
Standard Carton Measurement		430×350×225mm	430×350×225mm	430×350×225mm
Standard Carton Gross Weight		12.4KG	12.2KG	10.8KG

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Insulation Tester



3123

3125



3126

Technical data

Model		3123	3125	3126
250V	Resistance range	0 ~ 250GΩ	N/A	0 ~ 250GΩ
	Resistance accuracy	5%		5%
	Rated current	1mA		1mA
500V	Resistance range	0 ~ 500GΩ	0 ~ 500GΩ	0 ~ 500GΩ
	Resistance accuracy	5%	5%	5%
	Rated current	1mA	1mA	1mA
1000V	Resistance range	0 ~ 1000GΩ	0 ~ 1000GΩ	0 ~ 1000GΩ
	Resistance accuracy	5%	5%	5%
	Rated current	1mA	1mA	1mA
2500V	Resistance range	0 ~ 2.5TΩ	0 ~ 2.5TΩ	0 ~ 2.5TΩ
	Resistance accuracy	5%	5%	5%
	Rated current	1mA	1mA	1mA
5000V	Resistance range	N/A	0 ~ 5TΩ	0 ~ 10TΩ
	Resistance accuracy		5%	5%
	Rated current		1mA	1mA
The leakage current measurement		0 ~ 5000uA	0 ~ 5000uA	0 ~ 5000uA
Short circuit current		About 3mA	About 3mA	About 3mA
Polarization index(PI)		√	√	√
Induced absorption ratio(DAR)		√	√	√
Step voltage(SV)		√	√	√
The timing measurement(TIME)		√	√	√
Slope test(RAMP)		√	√	√
Comparison function(COMP)		√	√	√
Automatic release voltage		√	√	√
Temperature measurement	Range	0 ~ 70.0°C	0 ~ 70.0°C	0 ~ 70.0°C
Voltage test	DCRange	0 ~ 1000V	0 ~ 1000V	0 ~ 1000V
	ACRange	30 ~ 750V	30 ~ 750V	30 ~ 750V
Storage		Manual：500groups Homework：1000groups	Manual：500groups Homework：1000groups	Manual：500groups Homework：1000groups
Online communication		Isolation of USB communication, SCPI command, can realize remote control instrument by the device driver software	Isolation of USB communication, SCPI command, can realize remote control instrument by the device driver software	Isolation of USB communication, SCPI command, can realize remote control instrument by the device driver software
The system time		The date +24h time （Replace the battery without re setting）	The date +24h time （Replace the battery without re setting）	The date +24h time （Replace the battery without re setting
The power indicator		Display the remaining battery power	Display the remaining battery power	Display the remaining battery power
Automatic shutdown		√	√	√
Backlight		The white LED	The white LED	The white LED
Size and shape		210mm(L) × 155mm(W) × 95mm(D)	210mm(L) × 155mm(W) × 95mm(D)	210mm(L) × 155mm(W) × 95mm(D)
Weight		1750g（Does not contain a battery）	1750g（Does not contain a battery）	1750g（Does not contain a battery）
Power supply		Alkaline battery1.5V(LR6) ×The 8 section The power adapter(AC100~250V)"	Alkaline battery1.5V(L6) ×The 8 section The power adapter(AC100~250V)	Alkaline battery1.5V(L6) ×The 8 section The power adapter(AC100~250V)"
Overload		Insulation resistance：AC1200V/10S	Insulation resistance：AC1200V/10S	Insulation resistance：AC1200V/10S
		Voltage range：AC720V/10S	Voltage range：AC720V/10S	Voltage range：AC720V/10S
Withstand voltage		AC8320V(50/60Hz)/5S (Between the circuit and the outer box)	AC8320V(50/60Hz)/5S (Between the circuit and the outer box)	AC8320V(50/60Hz)/5S (Between the circuit and the outer box)
Insulation resistance		1000MΩ or greater/ DC 1000V (Between the circuit and the outer box)	1000MΩ or greater/ DC 1000V (Between the circuit and the outer box)	1000MΩ or greater/ DC 1000V (Between the circuit and the outer box)
Standard Quantity Per Carton		4pcs	4pcs	4pcs
Standard Carton Measurement		510mm*350mm*330mm	510mm*350mm*330mm	510mm*350mm*330mm
Standard Carton Gross Weight		13Kg	14Kg	14Kg

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Insulation Tester



4106A

Technical data

Function		4106	4106A
Earth Resistance function	Range accuracy	20Ω,±(2%+15)	20Ω,±(2%+3)
		200Ω,±(2%+5)	200Ω,±(2%+3)
		2000Ω,±(3%+5)	2000Ω,±(2%+3)
		20kΩ,±(3%+5)	N/A
Short circuit current		About 20mA	About 3mA
Voltage test	Range	UST 50V	UST 50V
Measurement of RE method		2pole、3pole、4pole	3pole、4pole
Comparison function(COMP)		√	√
ρ		√	√
Storage		100 groups	N/A
Power supply		Alkaline battery1.5V(LR6) ×The 8 section	Alkaline battery1.5V(LR6) ×The 8 section
adapter interface		√	√
Automatic shutdown		√	√
Backlight		The white LED	The white LED
Size and shape		178(L)×110(W)×58.5(D)mm	178(L)×110(W)×58.5(D)mm
Weight		About 500g(Does not contain a battery)	About 500g(Does not contain a battery)
Standard Quantity Per Carton		6pcs	6pcs
Standard Carton Measurement		530×405×310mm	530×405×310mm
Standard Carton Gross Weight		21kg	19.4kg

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Insulation Tester



4107B



4108

Technical data

Model		4107A	4107B	4108
RE	Range	0.020Ω～ 19.99kΩ	0.020Ω～ 19.99kΩ	0.02Ω～ 199.9kΩ
	Basic accuracy	2%+0.03Ω	2%+0.03Ω	2%+5
A single clamp	Range	N/A	0.020Ω～ 19.99kΩ	0.02Ω～ 19.99kΩ
	Basic accuracy		5%+0.03Ω	5%+5
Double clamp	Range	N/A	0.02Ω～ 100Ω	0.02Ω～ 100Ω
	Basic accuracy		10%+0.6	10%+2
Equipotential resistance	Range	N/A	N/A	0.02Ω～ 1999Ω
	Basic accuracy			2%+2
Voltage test	DC Range	0 ～ ±999.9V	0 ～ ±999.9V	N/A
	AC Range	30.0 ～ 750.0V	30.0 ～ 750.0V	
Disturbance voltage（UST）	Range	0.0V ～ 50.0V	0.0V ～ 50.0V	0.0V ～ 50.0V
	Basic accuracy	5%+5	5%+5	5%+5
Interference frequency（FST）	Range	16 ～ 400Hz	16 ～ 400Hz	16 ～ 400Hz
	Basic accuracy	1%+5	1%+5	1%+5
Clamp current measurement（IST）	Range	N/A	1.0mA ～ 20.0A	1.0mA ～ 20.0A
	Basic accuracy		5%+5	5%+5
ρ		√	√	√
Short circuit current		<250mA	<250mA	<250mA
COMP		√	√	√
Measurement method		2pole、3pole、4pole	2pole、3pole、4pole、single clamp、double clamp	2pole、3pole、4pole、single clamp、double clamp
Power Supply		Alkaline battery1.5V (LR6) ×The 8 section	Alkaline battery1.5V (LR6) ×The 8 section	Alkaline battery1.5V (LR6) ×The 8 section
Automatic shutdown		√	√	√
Display type		240 * 128 dot matrix	LCD	LCD
Backlight		√	√	√
Storage		√	√	√
Communication		USB	USB	USB
Size		210mm(L) × 155mm (W) × 95mm(D)	210mm(L) × 155mm (W) × 95mm(D)	210mm(L) × 155mm (W) × 95mm(D)
Weight		About 5500g （Does not contain a battery）	About 6500g （Does not contain a battery）	About 6500g （Does not contain a battery）
Standard Quantity Per Carton		2pcs	2pcs	1pcs
Standard Carton Measurement		510×350×330mm	510×350×330mm	395mm × 385mm ×260mm
Standard Carton Gross Weight		11.9kg	14kg	7.9kg

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Technical data

Project		98A+	98C+
DC voltage	Range	200mV/2V/20V/200V/1000V	200mV/2V/20V/200V/1000V
	Basic accuracy	±(0.05%+10)	±(0.05%+10)
AC voltage	Range	200mV/2V/20V/200V/1000V	200mV/2V/20V/200V/1000V
	Basic accuracy	±(0.5%+40)	±(0.5%+40)
DC current	Range	200uA/2000uA/20mA/200mA/2A/10A	200uA/2000uA/20mA/200mA/2A/10A
	Basic accuracy	±(0.2%+10)	±(0.2%+10)
AC current	Range	200uA/2000uA/20mA/200mA/2A/10A	200uA/2000uA/20mA/200mA/2A/10A
	Basic accuracy	±(0.8%+30)	±(0.8%+30)
Resistance	Range	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/60MΩ	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/60MΩ
	Basic accuracy	±(0.2%+5)	±(0.2%+5)
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF/100mF	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF/100mF
	Basic accuracy	±(5%+5)	±(5%+5)
Frequency	Range	10Hz/100Hz/1KHz/10KHz/100KHz/1MHz/5MHz	10Hz/100Hz/1KHz/10KHz/100KHz/1MHz/5MHz
	Basic accuracy	±(0.02%+4)	±(0.02%+4)
Thermocouple	Range	K indexing: -200.0°C ~ 1372.0°C	K indexing: -200.0°C ~ 1372.0°C
	Basic accuracy	±(0.5%+3°C)	±(0.5%+3°C)
RTD	Range	Pt100: -200.0°C ~ 850.0°C	Pt100: -200.0°C ~ 850.0°C
	Basic accuracy	±(0.5%+3°C)	±(0.5%+3°C)
Display words		22000	22000
The measurement rate		Slow 5 times/second; Fast 20 times/second	Slow 5 times/second; Fast 20 times/second
Analog Bar graph		20 times / sec	20 times / sec
Automatic / manual range		√	√
Measure the true effective value		√	√
Bandwidth		20Hz~1kHz	20Hz~1kHz
The duty ratio		10% ~ 90%	10% ~ 90%
Diode test		√	√
Continuity beeper		√	√
dBm		√	√
AC+DC/AC+Hz		√	√
MAX/MIN/AVG		√	√
Relative value measurement		√	√
Data Hold		√	√
Auto Hold		√	√
Peak Hold		√	√
Comparison function		√	√
VFC		√	√
The reference junction compensation		√	√
°C/ ° F conversion		√	√
Input impedance		10MΩ	10MΩ
Data recording		2000 group	2000 group
Online communication		Infrared USB communication module and PC communication.	1、The wireless communication module and PC communication 2、APP"
Auto power-off		√	√
Display type		LCD	LCD
Backlight		√	√
Power Supply		3×AAA Alkaline batteries	3×AAA Alkaline batteries
Safety		CAT. Ⅲ,1000V; CAT. Ⅳ,600V	CAT. Ⅲ,1000V; CAT. Ⅳ,600V
Electromagnetic compatibility		IEC61326-1,Group2,Class B	IEC61326-1,Group1,Class B
Size		185(L)×90(W)×54(D)mm	185(L)×90(W)×54(D)mm
Weight		About500g	About500g
Standard Quantity Per Carton		10pcs	10pcs
Standard Carton Measurement		395mm*385mm*260mm	395mm*385mm*260mm
Standard Carton Cross Weight		10Kg	10Kg

EMC
LVD CE

True RMS Multimeter

Project		189A
DC voltage	Range	50mV/500mV/5V/50V/500V/1000V
	Basic accuracy	±（0.025%+5dgt)
AC voltage	Range	50mV/500mV/5V/50V/500V/750V
	Basic accuracy	±（0.7%+30dgt)
DC current	Range	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	±（0.15%+10dgt)
AC current	Range	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	±（0.8%+30dgt)
Resistance	Range	50Ω/500Ω/5kΩ/50kΩ/500kΩ/5MΩ/50MΩ
	Basic accuracy	±（0.05%+5dgt)
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF /1000uF/10mF/100mF
	Basic accuracy	±（5%+5dgt)
Frequency	Range	10Hz～100kHz
	Basic accuracy	±（0.02%+4dgt)
Thermocouple	Range	K indexing：-200.0°C~1360.0°C
	Basic accuracy	±（0.5%+3℃)
RTD	Range	Pt100：-200.0°C~850.0°C
	Basic accuracy	±（0.5%+3℃)
Display words		55000
The measurement rate		Fast: 20 times / sec Slow: 5 times / sec
Analog Bar graph		The fastest rate: 20 times / sec
Automatic / manual range		✓
Measure the true effective value		✓
Bandwidth		50kHz
Duty cycle ratio		10 %~90%
Diode test		✓
Continuity beeper		✓
dBm		✓
Low pass filter		✓
MAX/MIN/AVG		✓
Relative value measurement		✓
Data Hold		✓
Data Hold		✓
Peak Hold		✓
The reference junction compensation		✓
°C/ ° F conversion		✓
Change rate		✓
Input impedance		10MΩ
Data recording		Manual record:1000group Homework: 1000 groups of records
Online communication		189A can undertake wired communication with infrared serial port of the compatible USB connection. Support ASCII can realize remote control instrument by the device driver software. The powerful function, friendly man-machine interface, the user can conveniently obtain multiple data parameters of instrument, and the data storage, processing, management, access to data is displayed in the graphical or tabular form.
Auto power-off		✓
Display type		LCD
Backlight		✓
Power Supply		4×1.5 AA Alkaline batteries
Safety		CAT IV 600V、CAT III 1000V
Electromagnetic compatibility		IEC61326-1,Group1，Class B
Size		206×97×60mm
Weight		About 500g
Standard Quantity Per Carton		10pcs
Standard Carton Measurement		395mm*385mm*260mm
Standard Carton Gross Weight		11.3Kg



98A+



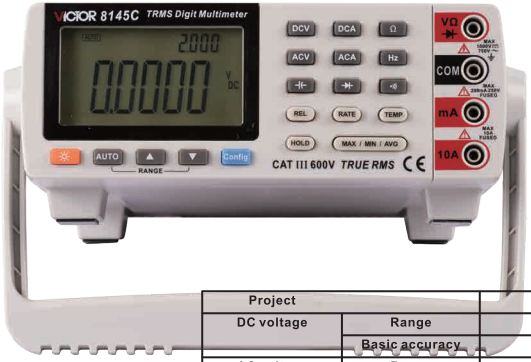
98C+



189A

EMC
LVD CE

Bench-Type DMM



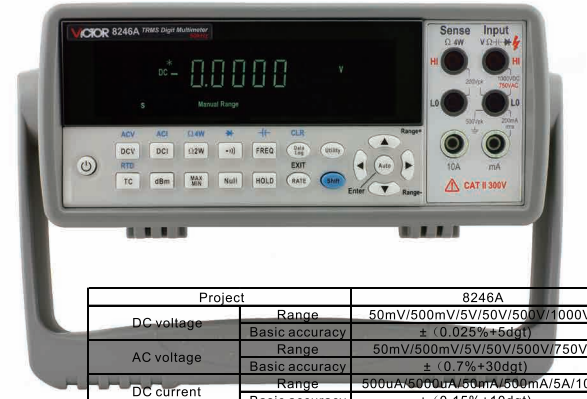
8145C

Accuracy:0.05%
Display words:22000

Project		8145C
DC voltage	Range	200mV/2V/20V/200V/1000V
	Basic accuracy	± (0.05%+4dgt)
AC voltage	Range	200mV/2V/20V/200V/750V
	Basic accuracy	± (0.5%+40dgt)
DC current	Range	0.2mA/2mA/20mA/200mA/10A
	Basic accuracy	± (0.2%+10dgt)
AC current	Range	0.2mA/2mA/20mA/200mA/10A
	Basic accuracy	± (0.8%+30dgt)
Resistance	Range	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/60MΩ
	Basic accuracy	± (0.2%+5dgt)
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF/1000uF
	Basic accuracy	± (5%+5dgt)
Frequency	Range	10Hz～10MHz
	Basic accuracy	± (0.02%+4dgt)
Thermocouple	Range	K：-200.0°C～1372.0°C
	Basic accuracy	± (0.5%+5°C)
Display words		22000
The measurement		Quick: 20 times / sec Slow:3 time sec
Automatic /		√
True RMS		√
Bandwidth		1kHz
Diode test		√
Continuity beeper		√
MAX/MIN/AVG		√
Relative value measurement		√
Data Hold		√
The reference junction compensation		√
°C/ ° F conversion		√
Communication		The isolation of the USB interface and PC
Online communication		Support ASCII , can realize remote
Display type		LCD
Backlight		√
Power Supply		220V±10%AC or 110V±10%AC，50Hz or 60Hz
Power		About 3W
Safety		CAT II 300V
Electromagnetic compatibility		IEC61326-1,Group1，Class B
Size		245 × 220 × 82 (mmdgt)
Weight		About 2kg
Standard Quantity Per Carton		6pcs
Standard Carton Measurement		585mm*505mm*323mm
Standard Carton Gross Weight		13.6Kg

EMC
LVD CE

Bench-Type DMM



8246A/8246B

Acceracy:0.025%

Display words:55000

Project		8246A	8246B
DC voltage	Range	50mV/500mV/5V/50V/500V/1000V	50mV/500mV/5V/50V/500V/1000V
	Basic accuracy	±（0.025%+5dgt)	±（0.025%+5dgt)
AC voltage	Range	50mV/500mV/5V/50V/500V/750V	50mV/500mV/5V/50V/500V/750V
	Basic accuracy	±（0.7%+30dgt)	±（0.7%+30dgt)
DC current	Range	500uA/5000uA/50mA/500mA/5A/10A	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	±（0.15%+10dgt)	±（0.15%+10dgt)
AC current	Range	500uA/5000uA/50mA/500mA/5A/10A	500uA/5000uA/50mA/500mA/5A/10A
	Basic accuracy	±（0.8%+30dgt)	±（0.8%+30dgt)
Resistance	Range	500Ω/5kΩ/50kΩ/500kΩ /5MΩ/50MΩ	500Ω/5kΩ/50kΩ/500kΩ /5MΩ/50MΩ
	Basic accuracy	±（0.05%+5dgt)	±（0.05%+5dgt)
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF /1000uF/10mF/100mF	10nF/100nF/1000nF/10uF/100uF /1000uF/10mF/100mF
	Basic accuracy	±（5%+5dgt)	±（5%+5dgt)
Frequency	Range	10Hz~100kHz	10Hz~100kHz
	Basic accuracy	±（0.02%+4dgt)	±（0.02%+4dgt)
Thermocouple	Range	K：-200.0°C~1372.0°C	K：-200.0°C~1372.0°C
	Basic accuracy	±（0.5%+0.5°C)	±（0.5%+0.5°C)
RTD	Range	Pt100：-200.0°C~800.0°C	Pt100：-200.0°C~800.0°C
	Basic accuracy	±（0.5%+0.5°C)	±（0.5%+0.5°C)
Display words		55000	55000
The measurement rate		Quick: 20 times / sec Slow: 5 times / sec	Quick: 20 times / sec Slow: 5 times / sec
Automatic / manual range		√	√
True RMS		√	√
Bandwidth		50kHz	1kHz
The duty ratio		10%~90%	10%~90%
Diode test		√	√
Continuity beeper		√	√
Four wire resistance measurements		√	√
dBm		√	√
MAX/MIN/AVG		√	√
Relative value measurement		√	√
Data Hold		√	√
The reference junction compensation		√	√
°C/ ° F conversion		√	√
Change rate		√	√
Communication interface		Configurable isolation USB, isolated RS232 communication	
Online communication		Support ASCII can realize remote control instrument by the device driver software. The powerful function, friendly man-machine interface, the user can conveniently obtain multiple data parameters of instrument, and the data storage, processing, management, access to data is displayed in the graphical or tabular form.	
Auto power-off		√	√
Display type		VFD	VFD
Power Supply		220V±10%AC or 110V±10%AC，50Hz	220V±10%AC or 110V±10%AC，50Hz
Power		About 3W	About 3W
Safety		CAT II 300V	CAT II 300V
Electromagnetic compatibility		IEC61326-1,Group1，Class B	IEC61326-1,Group1，Class B
Size		315*260*110（mmdgt)	315*260*110（mmdgt)
Weight		About 5kg	About 5kg
Standard Quantity Per Carton		4pcs	4pcs
Standard Carton Measurement		650mm*390mm*370mm	650mm*390mm*370mm
Standard Carton Gross Weight		21 Kg	21 Kg

EMC
LVD CE

Bench-Type DMM



8265

Technical data

Project		8265
DC voltage	Range	100mV/1V/10V/100V/1000V
	Basic accuracy	±(0.0035+0.0005%)
AC voltage	Range	100mV/1V/10V/100V/750V
	Basic accuracy	±(0.05%+0.03%)
DC current	Range	10mA/100mA/1A/10A
	Basic accuracy	±(0.015%+0.005%)
AC current	Range	10mA/100mA/1A/10A
	Basic accuracy	±(0.05%+0.05%)
Resistance	Range	100Ω/1KΩ/10KΩ/100KΩ/1MΩ/10MΩ/100MΩ
	Basic accuracy	±(0.01%+0.001%)
Capacitance	Range	10nF/100nF/1000nF/10uF/100uF/1000uF/10mF
	Basic accuracy	±(1%+0.5%)
Frequency	Range	3Hz ～ 100kHz
	Basic accuracy	±0.01%
Thermocouple	Range	8types(R/S/K/E/J/T/B/N/L/U)
	Basic accuracy	±0.7°C
RTD	Range	2types (Pt100/PT1000)
	Basic accuracy	±0.7°C
Display words		1000000
Automatic / manual range		√
True RMS		√
Bandwidth		20Hz~100kHz
Diode test		√
Continuity beeper		√
Four wire resistance measurements		√
dBm		√
MAX/MIN		√
Relative value measurement		√
Data Hold		√
The reference junction compensation		√
°C/ ° F conversion		√
Input impedance		100mV/1V/10V：10MΩ or ＞10GΩ　100V/1000V：10MΩ
Communication interface		Configurable isolation USB, isolated RS232 communication
Online communication		Support the SCPI command, can realize remote control instrument by the device driver software. The powerful function, friendly man-machine interface, the user can conveniently obtain multiple data parameters of instrument, and the data storage, processing, management, access to data is displayed in the graphical or tabular form.
Auto power-off		√
Display type		VFD
Power Supply		250V±10%AC，50Hz or 60Hz
Power		About 15W
Safety		CAT. Ⅲ,1000V; CAT. Ⅳ,600V
Electromagnetic compatibility		IEC61010.1-2001
Size		245 × 220 × 82(mmdgt)
Weight		About 5100g
Standard Quantity Per Carton		4pcs
Standard Carton Measurement		650mm×410mm×365mm
Standard Carton Gross Weight		21.6kg

EMC
LVD CE

Signal Generator



71A/71B/71C

Technical data

Project			71A	71B	71C
SOURCE"	DC millivolt	Range	110mV	110mV	/
		Basic accuracy	0.2%+4dgt	0.2%+4dgt	/
		Resolution	100uV	100uV	/
	DC voltage	Range	10V	10V	/
		Basic accuracy	0.2%+4dgt	0.2%+4dgt	/
		Resolution	10mV	10mV	/
	DC current	Range	0~22mA	0~22mA	/
		Basic accuracy	0.2%+4	0.2%+4	/
		Resolution	0.01mA	0.01mA	/
	Sink current	Range	0~22mA	0~22mA	/
		Basic accuracy	0.2%+4	0.2%+4	/
		Resolution	0.01mA	0.01mA	/
		External power supply	5 ~ 28V	5 ~ 28V	/
	Thermocouple	Range	\	8 types(R/S/K/E/J/T/B/N)	/
		Basic accuracy		0.2%+4	/
		Resolution		1℃	/
MEASURE	DC millivolt	Range	-10~110mV	-10~110mV	
		Basic accuracy	0.2%+4	0.2%+4	
		Resolution	100uV	100uV	
	DC voltage	Range	-5~30V	-5~30V	
		Basic accuracy	0.2%+4	0.2%+4	
		Resolution	10mV	10mV	
	DC current	Range	0~22mA	0~22mA	
		Basic accuracy	0.2%+4	0.2%+4	
		Resolution	0.01mA	0.01mA	
	Loop power	Range	24V	24V	
		Basic accuracy	10%	10%	
		Limit current	25mA	25mA	
	Thermocouple	Range	\	8types(R/S/K/E/J/T/B/N)	
		Basic accuracy		0.2%+4	
		Resolution		1℃	
Other functions	Manual Step Output		√	√	
	Automatic Waveform Output		√	√	
	Flash Light		√	√	
	Magnetic suspension cord (Optional accessories)		√	√	
Display			LCD	LCD	
Power supply			4×1.5V AAA alkaline battery	4×1.5V AAA alkaline battery	
Size			151(L)×75(W)×42(D)mm	151(L)×75(W)×42(D)mm	
Weight			0.5KG	0.5KG	
Standard Quantity Per Carton			12pcs	12pcs	
Standard Carton Measurement			430×350×225mm	430×350×225mm	
Standard Carton Gross Weight			7.2KG	7.2KG	

* Notice: table range for the maximum range, precision is the highest accuracy (reading%), the resolution is the highest resolution.

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72A



72B

Technical data

Input measurement function						
Function	**Range**	**Measurement range**	**Resolution**	**Accuracy**	**72A**	**72B**
DCV	**100 mV**	-10.0mV~110.0mV	100uV	0.2%+4	Yes	Yes
	30V	-5.00V~30.00V	10mV	0.2%+4	Yes	Yes
DCA	**20mA**	0.00mA~22.00mA	0.01mA	0.2%+4	Yes	Yes
LOOP	**24V**	/	±10%	/	Yes	Yes
On/off	/	OPEN/CLOSE	/	/	Yes	Yes
TC	**R**	0℃~1760℃	1 ℃	0.2%+4	No	Yes
	S	0℃~1760℃	1 ℃	0.2%+4		
	B	600℃~1820	1 ℃	0.2%+4		
	K	-200℃~1370℃	1 ℃	0.2%+4		
	E	-200℃~1000℃	1 ℃	0.2%+4		
	J	-200℃~1200℃	1 ℃	0.2%+4		
	T	-200℃~400℃	1 ℃	0.2%+4		
	N	-200℃~1300 ℃	1 ℃	0.2%+4		

★DCV characteristics: Input impedance: 30V: 300kΩ mV: > 1MΩ
★DCI characteristics: Overload protection: 50mA/30V; Load voltage: approximately 18mV/mA
★TC description: The thermocouple measurement adopts the ITS-90 temperature scale. The accuracy does not include the error of cold junction compensation and the influence of thermoelectric potential.

Analog output function						
Function	**Range**	**Measurement range**	**Resolution**	**Accuracy**	**72A**	**72B**
DCV	**100mV**	0.0mV~110.0mV	100uV	0.2%+4	Yes	Yes
	20V	0.00V~24.00V	10mV	0.2%+4	Yes	Yes
DCA(Active)	**20mA**	0.00mA~22.00mA	0.01mA	0.2%+4	Yes	Yes
DCA(Passive)	**-20mA**	0.00 ~ -22.00mA	0.01mA	0.2%+4	Yes	Yes
On/off	**100Hz**	1.0Hz ~ 110.0Hz	0.1Hz	0.2%+2	No	Yes
	1kHz	0.100kHz ~ 1.100kHz	1Hz	0.2%+2		
TC	**5kHz**	1.00kHz ~ 6.00kHz	10Hz	0.2%+2		
	10kHz	6.0kHz ~ 11.0kHz	100Hz	0.2%+2		
	100kHz	10kHz ~ 100kHz	3KHz	0.2%+2		
	R	0℃~1760℃	1 ℃	0.2%+4	No	Yes
	S	0℃~1760℃	1 ℃	0.2%+4		
	B	600℃~1800	1 ℃	0.2%+4		
	K	0℃~1350℃	1 ℃	0.2%+4		
	E	0℃~1000℃	1 ℃	0.2%+4		
	J	0℃~1200℃	1 ℃	0.2%+4		
	T	0℃~400℃	1 ℃	0.2%+4		
	N	0℃~1300 ℃	1 ℃	0.2%+4		

★DCI feature: 20mA maximum load 1KΩ
★FREQ characteristics: Rectangular wave 60% duty cycle, 1 to 20 VP-p
★TC description: The thermocouple measurement adopts the ITS-90 temperature scale.The accuracy does not include the error of cold junction compensation and the influence of thermoelectric potential.

EMC CE
LVD

Programmable DC electronic load



3801M



3803M



3824M

Product Basic Function

◆ It has key lock function to prevent misoperation;

◆ Provide CC, CV, CR, CP and CC+CV, CR+CV multiple basic measurement modes;Provide professional battery test;

◆ Provide professional LED test;

◆ Dynamic test mode, which can test the dynamic output performance of powersupply;

◆ Scanning test mode, which can test the continuity of power output within acertain range;

◆ List mode, which can simulate various load state changes;

◆ Short circuit test, used to simulate load short circuit;

◆ Support external trigger input;

◆ Built in buzzer alarm;

◆ Keep data storage function in case of power failure;

◆ Remote operation can be carried out through USB, RS-232 (optional) or 485(optional) interfaces;

◆ It has overvoltage, overcurrent, overpower and over temperature protection functions, and can flexibly set overvoltage and Over current parameter, which can effectively protect the load;

◆ With intelligent fan speed control function, it can effectively reduce fan noise during operation;

◆ It has input polarity reverse connection prompt.

◆ Power supply voltage: 100Vac±10%~240Vac±10%,50/60Hz

◆ Display: 2.8-inch TFT LCD screen with resolution of 320×240

◆ Operating temperature: 0℃ to 40℃

◆ Storage temperature: -10℃ to 70℃

◆ Relative humidity: < 80%

◆ Interface: standard USB, optional RS232(or 485)

◆ Size: 90mm×190mm×300mm (width × height × depth)

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Technical indicators

Basic function		3801M	3803M	3824M
Rated input	Power	400W	400W	Dual channel,200W*2
	Input voltage	0-150V	0-500V	0-150V
	Input current	0-40A	0-15A	0-40A(20A/channel)
Constant voltage	Range	0.1~19.999V 0.1~150.00V	0.1~19.999V 0.1~500.00V	0.1~19.999V 0.1~150.00V
	Resolving	1mV,10mV		
	Accuracy	±(0.05%+0.02%FS)		
Constant current	Range	0~3.000A 0~40.00A	0~3.000A 0~15.00A	0~3.000A 0~20.00A
	Resolving	1mA,10mA		
	Accuracy	±(0.05%+0.05%FS)		
Constant resistance	Range	0.05Ω~1 kΩ,1 kΩ~4.5kΩ		
	Resolving	10mΩ,100mΩ		
	Accuracy	±(0.1%+0.5%FS)		
Constant power	Range	0~400W		0~200W
	Resolving	10mW		
	Accuracy	±(0.1%+0.5%FS)		
Dynamic test function	Pattern	CC,CV		
	T1&T2	50ms~60s		
Battery test function	Discharge	CC,CR		
	Max discharge	9999Ah		
	Resolving	1mA,10mA,10mΩ,100mΩ		

Measuring range		3801M	3803M	3824M
Voltage read back value	Range	0~19.999V 0 ~150.00V	0~19.999V 0 ~500.00V	0~19.999V 0 ~150.00V
	Resolving	1mV,10mV		
	Accuracy	±(0.05%+0.1%FS)		
Current read back value	Range	0~3.000A 0~40.00A	0~3.000A 0~15.00A	0~3.000A 0~20.00A
	Resolving	1mA,10mA		
	Accuracy	±(0.05%+0.1%FS)		
Power read back value	Range	0~400W		0~200W
	Resolving	10mW		
	Accuracy	±(0.1%+0.5%FS)		
Scope of protection				
Overvoltage protection		Greater than 21V or 155V	Greater than 21V or 510V	Greater than 21V or 155V
Overcurrent protection		Greater than 3.1A or 42A	Greater than 3.1A or 16A	Greater than 3.1A or 22A
Overpower protection		410W		210W
Over temperature protection		85℃		
Basic parameters				
Power Supply		100Vac±10%~240Vac±10%,50/60Hz		
Display Size		2.8 inch TFT LCD screen, Resolving power320*240		
Body color		Pale		
Body weight		About 3.8KG		
Body size		90mm × 190mm × 300mm		
Standard accessories		Power cord, fuse * 2, manual, certificate		

EMC
LVD CE TÜV SÜD ISO 9001

CALCT temperature probe

- Type: A000019
- applicable products：process calibrations of VC25，VC11+，VC14+ of this Company
- function：can measure environmental temperature and capture cold-end compensation temperature faster and more accurate.
- accuracy： ±0.2degree
- feature ：MINI_USB interface (connected with the meter)
- weight ：about 17g



CA communication convertor module

type: A000022

applicable products: the calibration meters of VC25，VC11+，VC14+, VC15+ of this company

functions: to fulfill the data communication between the meter and the PC;

features: MINI_USB plug in the end(connected with meter), standard USB plug in the other end (connected with PC)

weight : about 50g



CA pressure module convertor

type: A000018

applicable products: VC25, VC15+ calibration meters of this company

functions: to finish pressure measurement by connecting the meter and the pressure module

features: MINI_USB plug in the end(connected with meter), standard LEMO USB plug in the other end (connected with PC)

weight : about 20g



USB serial communication line

Standard USB interface
A type 4P RP-SMA Male/ MINI USB A type 5P insert
Type: H100000



EMC LVD CE

Accessories



USB serial communication line

Standard USB interface
USB A type 4P RP-SMA Male/
USB B type 4P insert/ with
shielding layer
type: H100000



Testing probe
Product catalogue: General accessories
Standard banana-typed interface adapted to varieties of probes
Bar length: 115mm ; length of valid needles: 18mm
CATIII 1000V 16A
type : H000000



Testing probe
Product catalogue: General accessories
Bar length: 145mm ; line length:1000mm ; length of valid needles: 18mm
CATIII 1000V 20A
type : H000003



Testing probe
Product catalogue: General accessories
Standard banana-typed interface adapted to varieties of probes
Bar length: 145mm ; line length:1000mm ; length of valid needles: 18mm
CATIII 1000V 10A
type : H000005



Testing probe
Product catalogue: General accessories
Bar length: 145mm ; line length:1000mm ; length of valid needles: 18mm
CATIII 1000V 10A
type : H000013

EMC
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VICTOR®

Alligator clipper test lead

- alligator clipper in one end
- 4mm banana plug in the other end (with insulation pipe sleeve)
- highly flexible connective leads to meet different needs of tests
- comply with criterion: EN61010, IEC61010, DIN VDE0411
- type: H000010B

rated voltage	CATIII 600V
rated current	10A
standard lead	1000mm;PVC



Alligator clipper test lead

- alligator clipper in one end
- two 4mm banana plugs in the other end (with insulation pipe sleeve)
- highly flexible connective leads to meet different needs of tests
- comply with criterion: EN61010, IEC61010, DIN VDE0411
- type: H000011

rated voltage	CATIII 600V
rated current	10A
standard lead	1000mm;PVC



Alligator clipper test lead

- alligator clipper in one end
- 4mm banana plug in the other end (with insulation pipe sleeve)
- highly flexible connective leads to meet different needs of tests
- comply with criterion: EN61010, IEC61010, DIN VDE0411
- type: H000010G

rated voltage	CATIII 600V
rated current	10A
standard lead	1000mm;PVC



Main indicator of adaptor

type: P070000

rated voltage	15V
output range	15V±5%
current value	0A~2.0A



Main indicator of lined adaptor

type: P070003

input voltage/ frequency	220V/50Hz
no-load current	≤45mA
input power	5W
output DC no-load voltage	5V±5%
load current	1000mA
output DC load voltage	4.7V±0.5%



EMC
LVD CE

Accessories



Alligator clipper
- Product catalogue: alligator clipper
- Insulation direct plug-in alligator clipper
- Alligator clipper: 80*36mm
- Maximum dehisce: 20mm
- CAT Ⅲ 1000V 10A
- Type: H010000



Industrial test lead
- Product catalogue: general accessories
- Length of probe bar: 136mm, length of probe line: 1000mm
- Valid length of probe needle :18mm
- CAT Ⅲ 1000V 10A
- Type: H000001



Industrial test lead
- Product catalogue: general accessories
- Standard banana head to adapt to varieties of probes to make test easy
- Banana head: 56mm, length of probe line: 1000mm
- CAT Ⅲ 1000V 10A
- Type: H000002



Hooked test probe
- Product catalogue: general accessories
- With safe handle and smart, scalable, exploratory trench with compression spring to make test easy
- Standard banana head to adapt to varieties of probes to make test easy
- CAT Ⅲ 1000V 10A
- Type: H000004



TC convertor
- Product catalogue: TC convertor
- Adapted conversion test of all kinds of graduations
- Type: H200000



Pressure module communication cable
- type: A000046
- applicable products: the calibration meters of VICTOR 25, VICTOR15+ of this company this company
- functions: to fulfill the data communication between the meter and the pressure module
- features: Binder 5-pole female to LEMO 5_pole male
- length : about 60mm

EMC
LVD CE

NOTES

VICTOR®
胜利仪器

NOTES

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