

Data Logging Digital MULTIMETER

Model: 189A



**Features**

Model	189A
True RMS	√
Diode and continuity test	√
Data hold, auto hold, peak hold	√
dBm measurement	√
Low pass filter	√
MAX/MIN/AVG	√
Relative Value Measurement	√
AC+DC measurement	√
8 Thermocouple temperature 2 RTD temperature	√
The reference junction compensation	√
Built-in real-time clock	√
SCPI	√
Auto power-off	√
LCD with backlight	√
Panel calibration	√
Duty cycle & Pulse width	√
Max Display	55000
Analog Bar graph	The fastest rate: 20 times / sec
Operation Way	Auto / Manual Range
Bandwidth	50kHz
Input impedance	10MΩ
USB interface	Data analyze on software
The measurement rate	Fast/Slow/Smooth
Data recording	Up to 1000 groups



**Specification**

Model	Range	189A
DC V	50mV/500mV/2200mV/5V/50V/500V/1000V	± (0.03%+5)
AC V	50mV/500mV/5V/50V/500V/1000V	± (0.7%+30)
DC+AC Voltage	2V/20V/200V/1000V	± (0.7%+30)
DC A	500uA/5000uA/50mA/500mA/5A/20A	± (0.15%+10)
DC clamp	50A/500A/2000A	± (0.5%+30)
AC A	500uA/5000uA/50mA/500mA/5A/20A	± (0.8%+30)
AC clamp	50A/500A/2000A	± (0.7%+30)
DC+AC current	200uA/2000uA/20mA/200mA/2A/20A/200A/2000A	± (0.7%+30)
Resistance	500Ω/5kΩ/50kΩ/500kΩ/5MΩ/50MΩ/100MΩ/500MΩ	± (0.08%+5)
Capacitance	9.999nF/99.99nF/999.9nF/9.999uF/99.99uF/999.9uF/9.999mF/99.99mF	± (1%+5)
Frequency	9.9999Hz/99.999Hz/999.99Hz/9.9999KHz/999.99KHz/9.9999MHz/99.999MHz	± (0.02%+4)
Thermocouple	R 0°C~1767°C / 32°F~3212°F	± (0.5%+1)
	S 0°C~1767°C / 32°F~3212°F	± (0.5%+1)
	K -200.0°C~1372.0°C / -328.0°F~2501.6°F	± (0.5%+1)
	E -200.0°C~720.0°C / -328.0°F~1328.0°F	± (0.5%+1)
	J -200.0°C~950.0°C / -328.0°F~1742.0°F	± (0.5%+1)
	T -250.0°C~400.0°C / -418.0°F~752.0°F	± (0.5%+1)
	N -200.0°C~1300.0°C / -328.0°F~2372.0°F	± (0.5%+1)
RTD	B 600°C~1820°C / 1112°F~3308°F	± (0.5%+1)
	Pt100 -200.0°C~800.0°C / -328.0°F ~ 1472.0°F	± (0.5%+0.5)
	Pt1000 -200.0°C ~ 630.0°C / -328.0°F ~ 1166.0°F	± (0.5%+0.5)
Pulse width	199.99ms / 1999.9ms	± (0.2%+3)
Duty cycle	0.1% ~ 99.9%	± (0.3%)

**General Information**

Model	189A
Power supply	AAA,1.5V*4
Product weight	500g
Product size	205mm×95mm×42mm
Standard accessories	Temperature probe, pouch, test leads, battery, manual, USB cable, software CD, calibration report