Fluke 189 II Specs Provided by www.AAATesters.com



Fluke 189II True RMS Multimeter

The 189II has more measurement functionality and troubleshooting features to solve more problems in electronics, plant automation, and electro-mechanical equipment. The 189II is the next generation high performance multimeter with more problem solving power, accuracy, safety, and convenience in a handheld multimeter than ever before.

Equipped with new functionality and accuracy, now all included in one handheld test tool such as:

- Large 50,000 count, 320 x 240 Dot matrix LCD display with white backlight. Multiple sets of measurement information are now available in this easy to read display
- 0.025% Basic DC accuracy
- Logging function with TrendCapture. Useful for characterizing the performance of a design or process or for unattended monitoring while in the field. Using on-board TrendCapture users can then graphically view logged readings without needing a pc. Multiple recording sessions are possible before downloading is necessary. Let the 189II become the key component for documenting the performance of your designs, processes or systems while you work on other projects.
- Real time clock for automatic time stamping of saved readings
- True-rms ac voltage and current for accurate measurements on complex signals or non linear loads. AC bandwidth specified to 100 kHz.
- Measure up to 1000Vdc and 1000Vac.
- Measure up to 10 A (20 A for 30 seconds)
- 100 mF capacitance range
- Temperature function
- Peak capture to record transients as fast as 250 μs
- Dual rated CAT IV 600V-CAT III 1000V.
- Optically isolated communication port for transferring data to pc (usb cable and software optional)



Specifications			
Voltage DC	Accuracy Range and Resolution		% mV,500.00 mV, 5.0000 V, 50.000 00 V, 1000.0V
Voltage AC	Accuracy Range and Resolution	50.00Ò	rue-rms) mV,500.00 mV, 5.0000 V, 50.000 00 V, 1000.0V
Current DC	Accuracy Range and Resolution		μΑ, 5000.0 μΑ, 50.000 mA, mA, 5.0000 A, 10.000 A
Current AC	Accuracy Range and Resolution		ue-rms) μΑ, 5000.0 μΑ, 50.000 mA, 400.00 000 Α, 10.000 Α
Temperature (excluding probe)	Accuracy Range and Resolution		% .0 °C to 1350.0 °C (-328.0 °F to 2.0 °F)
Resistance	Accuracy Range and Resolution		Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 00 MΩ, 50.00 MΩ, 500.0 MΩ
Capacitance	Accuracy Range and Resolution		,10.00 nF 100.0 nF, 1.000 μF, , 100.0 μF, 1000 μF, 10.00 mF, F
Frequency	Accuracy Range and Resolution		% + 5) Hz, 999.99 Hz, 9.9999 kHz,) kHz, 999.99 kHz
Additional functions/features	Multiple on-scre displays	en	Yes
	True-rms AC ba	ndwidth	100 kHz
	DBV/dBm Conductance		Yes 50.00nS
	Continuity beep	ber	Yes
	Battery/Fuse ac	cess	Battery / Fuse
	Peak		250 μS
	Elapse time clo Time of day clo		Yes Yes
	Min-Max-Avg	UN	Yes
	Duty Cycle		0.01 % to 99.99 %
	Pulse Width Hold		0.025 ms, 0.25 ms, 2.5 ms, 1250.0 ms Yes
	Isolated Optical	Interface	
	Auto/Touch Hol		Yes
	Reading memor	ry	Yes
	Log to PC Interval/Event L	ogging	Yes Yes
	Logging Memor		Up to 10,000 readings
Environmental Sp	acifications		
Operating Temperature	-20 °C to +55 °C		
Storage Temperature	-40 °C to +60 °C	C	
Relative Humidity	0% to 90% (0 °0	C - 37 °C)	



	0% to 65% (37 °C - 45 °C), 0 to 45 % (45 °C - 55 °C	
Electromagnetic Compatability	EMC EN6 1326-1	
Vibration	Random vibration per MIL-PRF-28800f Class 2	
Shock	1 meter drop per IEC/EN 61010-1 2nd edition	
Safety Specification	ons	
Overvoltage category	CAT III 1000 V / CAT IV 600 V safety rated	
Agency Approvals	CSA, UL, TÜV, CE	
Mechanical & Gen	eral Specifications	
Mechanical & Gen Maximum voltage between any terminal and earth ground	eral Specifications 1000V	
Maximum voltage between any terminal and earth		
Maximum voltage between any terminal and earth ground	1000V (HxWxL 22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38	
Maximum voltage between any terminal and earth ground Size	1000V (HxWxL 22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38 in)	
Maximum voltage between any terminal and earth ground Size Weight	1000V (HxWxL 22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38 in) 870.9 g (28 oz)	