

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 189Il 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	0.025 %	4
Voltage DC	Range and		mV,500.00 mV, 5.0000 V, 50.000
	Resolution		00 V, 1000.0V
Voltage AC	Accuracy	0.4 %(t	rue-rms)
l onago / to	Range and		mV,500.00 mV, 5.0000 V, 50.000
	Resolution		00 V, 1000.0V
Current DC	Accuracy	0.06 %	
	Range and		μA, 5000.0 μA, 50.000 mA,
	Resolution	400.00	mA, 5.0000 A, 10.000 A
Current AC	Accuracy		ue-rms)
	Range and Resolution		μΑ, 5000.0 μΑ, 50.000 mA, 400.00 0000 A, 10.000 A
Temperature (excluding probe)	Accuracy Range and	1.0 %	% .0 °C to 1350.0 °C (-328.0 °F to
(excluding probe)	Resolution		2.0 °F)
Resistance		0.05 %	,
Resistance	Accuracy Range and		Ω, 5.0000 kΩ, 50.000 kΩ, 500.00
	Resolution		000 MΩ, 50.00 MΩ, 500.0 MΩ
Capacitance	Accuracy	1.0 %	
	Range and	1.000 nF	,10.00 nF 100.0 nF, 1.000 μF,
	Resolution	•	, 100.0 μF, 1000 μF, 10.00 mF,
		100.00 m	IF.
Frequency	Accuracy	0.005%	
	Range and Resolution		9 Hz, 999.99 Hz, 9.9999 kHz, 9 kHz, 999.99 kHz
Additional functions/features	Multiple on-scre displays	een	Yes
Tunctions/leatures	True-rms AC ba	ndwidth	100 kHz
	DBV/dBm		Yes
	Conductance		50.00nS
	Continuity beep Battery/Fuse ac		Yes Battery / Fuse
	Peak	CCSS	250 µS
	Elapse time clo	ck	Yes
	Time of day clo	ck	Yes
	Min-Max-Avg		Yes
	Duty Cycle Pulse Width		0.01 % to 99.99 % 0.025 ms, 0.25 ms, 2.5 ms,
	l aloo matii		1250.0 ms
	Hold		Yes
	Isolated Optical		
	Auto/Touch Hol Reading memor		Yes Yes
	Log to PC	y	Yes
	Interval/Event L		Yes
	Logging Memor	У	Up to 10,000 readings
Environmental Sp	ecifications		
Operating Temperature	-20 °C to +55 °C		
Storage Temperature	-40 °C to +60 °C	3	
Relative Humidity	0% to 90% (0 °C	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	
Marchania al O Ossa		
Mechanical & Gen	eral Specifications	
Maximum voltage between any terminal and earth ground	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	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)	