

New Fluke 289 True-rms Industrial Logging Multimeter with TrendCapture

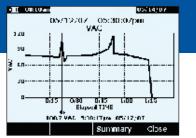
New diagnostic functionality for maximizing productivity in the plant.

The new 289 is the next generation high performance industrial logging multimeter designed to solve complex problems in electronics, plant automation, power distribution, and electro-mechanical equipment. With the ability to log data and review it graphically on-screen, you can solve problems faster and help minimize downtime. Let the new 289

be your watchdog for systems or processes while you are off solving other problems.

Equipped with new functionality

- **New** Large 50,000 count, 1/4 VGA dot matrix display with white backlight
- New Logging function with expanded memory for unattended monitoring of signals over time. Using on-board TrendCapture users can graphically review logged readings without needing a PC. Store up to 10,000 readings over time.
- New Save multiple logging sessions before pc download is necessary
- **New** Two terminal 50 ohm range with 1 milliohm resolution, 10 mA source current. Useful for measuring and comparing differences in motor winding resistance or contact resistance.
- **New** Low Pass filter for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment
- **New** LoZ Volts. Low impedance voltage function for eliminating ghost voltages. Also recommended when testing for absence or presence of live power.



TrendCapture displays vAC logged data.

- New (i) button. On board help screens for measurement functions. Unsure about a function—go to that function and press the "i" button.
- Real time clock for automatic time stamping of saved readings
- Relative mode to remove test lead resistance from low ohms or capacitance measurements
- True-rms ac voltage and current for accurate measurements on non linear signals
- Measure up to 10 A (20 A for 30 seconds)
- 100 mF capacitance range
- Peak capture to record transients as fast as 250 µs
- Withstands hazardous 8,000 volt spikes caused by load switching and faults on industrial circuits and complies with second edition IEC and ANSI electrical safety standards.
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks

Technical Data



- Optically isolated communication port for transferring data to pc (usb cable and software optional)
- Limited lifetime warranty

Specifications

Function	Range and Resolution	Basic Accuracy
DC volts AC volts	50.000 mV,500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V	0.025 % 0.4 % (true-rms)
DC current AC current	500.00 μA, 5000.0 μA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A	0.15 % 0.7 % (true-rms)
Temperature (excluding probe)	-200.0 °C to 1350.0 °C (-328.0 °F to 2462.0 °F)	1.0 %
Resistance	50.000 Ω, 500.00 Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 500.0 MΩ	0.05 %
Capacitance	1.000 nF,10.00 nF 100.0 nF, 1.000 μF, 10.00 μF, 10.00 μF, 100.0 μF, 1000 μF, 10.00 mF, 100.0 mF	1.0 %
Frequency	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz, 999.99 kHz	.005 %

Additional Functions/Features	Fluke 289
Multiple on screen displays	Yes
True-rms ac bandwidth	100 kHz
dBV/dBm	Yes
DC mV resolution	1 μV
Megohm range	up to 500 M Ω
Conductance	50.00 nS
Continuity beeper	Yes
Battery/fuse access	Battery/fuse
Elapse time clock	Yes
Time of day clock	Yes
Min-max-avg	Yes
Duty cycle	Yes
Pulse width	Yes
Isolated optical interface	Yes
Auto/touch hold	Yes
Reading memory	Yes
Log to PC	Yes
Interval/event logging	Yes
Logging memory	up to 10,000 readings

Ordering information		
289	True-rms Industrial Logging Multimeter with TrendCapture	
Optional accessories		
FVF-SC2	FlukeView® Forms Software with Cable	
TLK289	Industrial Test Lead Set	
i400	AC Current Clamp	
i410	AC/DC Current Clamp	
80BK	Integrated DMM	
	Temperature Probe	
TPAK	Magnetic Hanging Kit	
C280	Soft Case	

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General specifications

Maximum voltage between any terminal and earth ground: 1000 V

Battery type: 6 AA alkaline batteries, NEDA 15A IEC LR6 **Battery life:** 100 hours minimum, 200 hours in logging mode **Temperature:**

Operating: -20 °C to 55 °C Storage: -40 °C to 60 °C **Relative humidity:** 0 to 90 % (0 t 37 °C), 0 to 65 % (37 °C to 45 °C), 0 to 45 % (45 °C to 55 °C) **Electromagnetic compatibility:** EMC EN61326-1 **Vibration:** Random vibration per MIL-PRF-28800F Class 2 **Shock:** 1 meter drop per IEC/EN 61010-1 2nd Edition **Size (HxWxL):** 22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38 in) **Weight:** 870.9 g (28 oz)