

## Fluke 289 Logging Multimeter

### Fluke 289 True-rms Industrial Logging Multimeter with TrendCapture

The Fluke 289 is a 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.

Be sure to also check out the Fluke 287 True-RMS Electronics Logging Multimeter with TrendCapture designed for electronics professionals or the Fluke 289 and Fluke i400 Clamp Meter Combo Kit



#### Equipped with powerful functionality:

- TrendCapture quickly graphically displays logged data session to quickly determine whether anomalies may have occurred
- Zoom on trend provides unprecedented ability to view and analyze TrendCapture data; zoom in up to 14 times
- Selectable ac filter (Smoothing mode) helps display a steadier reading when the input signal is changing rapidly or noisy
- Adjustable recording and auto hold thresholds, specify a percentage change in the readings that begins a new event
- Large 50,000 count, 1/4 VGA dot matrix display with white backlight
- 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 15,000 recorded events.
- Save multiple logging sessions before pc download is necessary
- 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.
- Low Pass filter for accurate voltage and frequency measurements at the same time on adjustable speed motor drives and other electrically noisy equipment
- LoZ Volts. Low impedance voltage function for eliminating ghost voltages. Also recommended when testing for absence or presence of live power.
- "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  $\mu$ s
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks
- Optically isolated communication port for transferring data to pc (usb cable and software optional)
- Limited lifetime warranty

## Key Features of the Fluke 289 Logging Multimeter:

- TrendCapture quickly graphically displays logged data session to quickly determine whether anomalies may have occurred
- Zoom on trend provides unprecedented ability to view and analyze TrendCapture data; zoom in up to 14 times
- Selectable ac filter (Smoothing mode) helps display a steadier reading when the input signal is changing rapidly or noisy
- Adjustable recording and auto hold thresholds, specify a percentage change in the readings that begins a new event
- Large 50,000 count, 1/4 VGA dot matrix display with white backlight
- 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 15,000 recorded events.
- Save multiple logging sessions before pc download is necessary
- 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.
- Low Pass filter for accurate voltage and frequency measurements at the same time on adjustable speed motor drives and other electrically noisy equipment
- LoZ Volts. Low impedance voltage function for eliminating ghost voltages. Also recommended when testing for absence or presence of live power.
- "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 nonlinear signals
- Measure up to 10 A (20 A for 30 seconds)
- 100 mF capacitance range
- Peak capture to record transients as fast as 250  $\mu$ s
- Optional magnetic hanger for easy setup and viewing while freeing your hands for other tasks
- Optically isolated communication port for transferring data to pc (usb cable and software optional)
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## SPECIFICATIONS:

Voltage DC	Accuracy	0.025 %
	Range and Resolution	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0V
Voltage AC	Accuracy	0.4 %(true-rms)
	Range and Resolution	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0V

## SPECIFICATIONS:

Current DC	Accuracy	0.06 %
	Range and Resolution	500.00 $\mu$ A, 5000.0 $\mu$ A, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
Current AC	Accuracy	0.61 %(true-rms)
	Range and Resolution	500.00 $\mu$ A, 5000.0 $\mu$ A, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
Temperature (excluding probe)	Accuracy	1.0 %
	Range and Resolution	-200.0 °C to 1350.0 °C (-328.0 °F to 2462.0 °F)
Resistance	Accuracy	0.05 %
	Range and Resolution	500.00 $\Omega$ , 5.0000 k $\Omega$ , 50.000 k $\Omega$ , 500.00 k $\Omega$ , 5.0000 M $\Omega$ , 50.00 M $\Omega$ , 500.0 M $\Omega$
Resistance 10 50 $\Omega$ (2 wire connection)	Accuracy	0.15 % + 20
	Range and resolution	50.000 $\Omega$
Capacitance	Accuracy	1.0 %
	Range and Resolution	1.000 nF, 10.00 nF, 100.0 nF, 1.000 $\mu$ F, 10.00 $\mu$ F, 100.0 $\mu$ F, 1000 $\mu$ F, 10.00 mF, 100.00 mF $\Omega$
Frequency	Accuracy	0.005% + 5
	Range and Resolution	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz
Additional functions/features	Multiple on-screen displays	Yes
	True-rms AC bandwidth	100 kHz
	DBV/dBm	Yes
	DC mV resolution	1 $\mu$ V
	Megohm range	Up to 500 M
	Conductance	50.00nS
	Continuity beeper	Yes
	Battery/Fuse access	Battery / Fuse
	Peak	250 $\mu$ S
	Elapse time clock	Yes
	Time of day clock	Yes
	Min-Max-Avg	Yes
	Frequency	Yes
	Duty Cycle	0.01 % to 99.99 %
	Pulse Width	0.025 ms, 0.25 ms, 2.5 ms, 1250.0 ms
	Hold	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
	Resistance Low Ohm	0.001 $\Omega$ to 50.000 $\Omega$ 10 mA source
	LoZ	Yes
	Low Pass Filter	Yes