TECHNICAL DATA

Fluke 287 True-RMS Electronics Logging Multimeter

Key features

Equipped with new functionality

- Now compatible with Fluke Connect mobile app and all Fluke FC enabled test tools with optional ir3000 FC infrared connector (sold separately).
- Let your team see what you see in an instant with ShareLive™ video call (requires Fluke Connect mobile app and ir3000 FC wireless connector).
- TrendCapture quickly graphically displays logged data session to quickly determine whether anomalies may have occurred.
- Limited lifetime warranty.

Product overview: Fluke 287 True-RMS Electronics Logging Multimeter

Now compatible with Fluke Connect® Mobile App

The Fluke 287 True-rms Electronics Logging Multimeter with TrendCapture quickly documents design performance and graphically displays what happened. Its unique logging and graphing capabilities mean you no longer need to download logged readings to a PC to detect a trend. The Fluke 287 packs more accuracy and convenience into a handheld multimeter than ever before:

- 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 display with white backlight. Multiple sets of measurement information can be simultaneously displayed at the same time.
- 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.
- On board help screens for measurement functions.
- Saved measurements allow you to name and recall measurements made in the field.
- Multi-lingual interface.
- Multiple logging sessions possible without download.
- 0.025% basic DC accuracy.
- 100 kHz AC bandwidth.
- 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 10 A (20 A for 30 seconds).
- 100 mF capacitance range.
- Temperature function.
- Relative mode to remove test lead resistance from low ohms or capacitance measurements. • Peak capture to record transients as fast as 250 µs.
- Premium test leads and alligator clips included.
- Amp jack plugs included.
- Optional FlukeView forms enable you to document, store and analyze individual readings or a series of measurements, then convert them into professional-looking documents.
- Optional magnetic hanger allows you to hang the meter for easy viewing while freeing your hands to focus on the job.

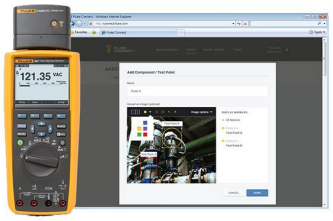
Specifications: Fluke 287 True-RMS Electronics Logging Multimeter

Specifications		
Function		
DC volts	**Range / resolution**	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V
	Basic accuracy	0.025%
AC volts	**Range / resolution**	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V
	Basic accuracy	0.4% (True-RMS)
DC current	**Range / resolution**	500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
	Basic accuracy	0.05%
AC current	**Range / resolution**	500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
	Basic accuracy	0.6% (True-RMS)
Temperature (excluding probe)	**Range / resolution**	-200.0°C to 1350.0°C (-328.0°F to 2462.0°F)
	Basic accuracy	1.0%
Resistance	**Range / resolution**	500.00 Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 500.0 MΩ
	Basic accuracy	0.05%

Capacitance	**Range / resolution**	1.000 n, 10.00 nF, 100.0 nF, 1.000 µF, 10.00 µF, 100.0 µF, 1000 µF, 10.00 mF, 100 mF
	Basic accuracy	1.0%
Frequency	**Range / resolution**	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz
	Basic accuracy	0.005%
Connectivity	Optional infrared connector via Fluke ir3000 FC	
General Specifications		
Maximum voltage between any terminal and earth ground	1000 V	
Battery type	6 AA alkaline batteries, IECLR6	
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 3rd Edition	
Size (H x W x L)	22.2 x 10.2 x 6 cm (8.75 x 4.03 x 2.38 in)	
Weight	870.9 g (28 oz)	
Multiple on screen displays	Yes	
True-RMS AC bandwidth	100 kHz	
dBV/dBm	Yes	
DC mV resolution	1 µV	
Megohm range	Up to 500 MΩ	
Conductance	50.00 nS	
Continuity beeper	Yes	
Battery/fuse access	Yes/Yes	
Elapse time clock	Yes	
Time of day clock	Yes	
Min-max-avg	Yes	
Peak	250 µs	
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
Wireless connectivity (optional)	Yes

Ordering information



Fluke 287
Fluke 287 True-RMS Electronics Logging Multimeter

Includes:

- Fluke 287 True-RMS Electronics Logging Multimeter
- TL71 Test Leads
- AC175 Alligator Clips
- Batteries – 6 AA Installed

Requires Fluke ir3000 FC Infrared Connector for Fluke Connect communication

Fluke 287 CAL
Fluke 287 True-RMS Electronics Logging Multimeter, with a traceable certificate of calibration with data from Fluke

Includes:

- Fluke 287 True-RMS Electronics Logging Multimeter
- TL71 Test Leads
- AC175 Alligator Clips
- Batteries – 6 AA Installed
- A traceable certificate of calibration with data from Fluke

Requires Fluke ir3000 FC Infrared Connector for Fluke Connect communication

Fluke. *Keeping your world up and running.®*

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