

Fluke 287

True-rms Electronics Logging Multimeter with TrendCapture

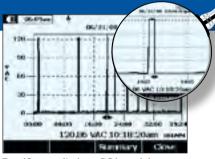
Technical Data

The Best Just Got Better.

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.

Equipped with new 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 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.



TrendCapture displays vDC logged date.

- i button. 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
- Optional FlukeView forms enables 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
- · 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	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, 100.0 μF, 100.0 μF, 1000 μF, 1000 mF	1.0 %
Frequency	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz	0.005 %

Additional Functions/Features	Fluke 287	
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	
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	
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	

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), O 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)

Ordering information

True-rms Electronics Logging Multimeter with TrendCapture

Optional accessories

FVF-SC2 FlukeView® Forms Software with Cable 80BK Integrated DMM Temperature Probe TLK287 Electronic Test Lead Set TPAK Magnetic Hanging Kit Soft Case C280

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