

New Fluke 287

True-rms Electronics Logging Multimeter with TrendCapture

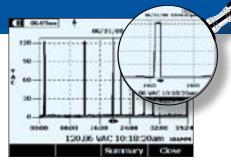
Technical Data

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

- New TrendCapture quickly graphically displays logged data session to quickly determine whether anomalies may have occurred
- New Zoom on trend provides unprecedented ability to view and analyze TrendCapture data; zoom in up to 14 times
- New Selectable ac filter (Smoothing mode) helps display a steadier reading when the input signal is changing rapidly or noisy
- New Adjustable recording and auto hold thresholds, specify a percentage change in the readings that begins a new event
- New Large 50,000 count, 1/4 VGA display with white backlight. Multiple sets of measurement information can be simultaneously displayed at the same time.
- 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 15,000 recorded events.



TrendCapture displays vDC logged date.

- New (i) button. On board help screens for measurement functions
- New Saved measurements allow you to name and recall measurements made in the field
- **New** 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, 10.00 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), 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)

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

C280 Soft Case

Fluke. Keeping your world up and running.®

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