

New Fluke 287

True-rms Electronics Logging Multimeter with TrendCapture

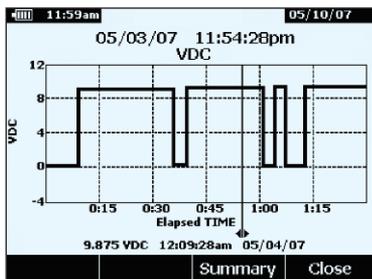
Technical Data

The advanced, logging digital multimeter with high accuracy and TrendCapture electronics professionals can depend on.

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** – Large 50,000 count, 1/4 VGA display with white backlight. Multiple sets of measurement information can be simultaneously displayed at the same time.



TrendCapture displays vDC logged date.

- **New** – Logging function with TrendCapture. Useful for characterizing the performance of a design or for unattended monitoring while in the field. Users can review logged readings without needing a PC.
- **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)
- 50 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 μ s
- 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 1090.0 °C (-328.0 °F to 1994.0 °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, 1000 µF, 10.00 mF, 100 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: 50 hours minimum, 180 hours in logging mode

Temperature:
Operating: -20 °C to 55 °C
Storage: -40 °C to 60 °C

Relative humidity: 0 to 90 % (0 to 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

287 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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