Fluke 287

True-rms Electronics Logging Multimeter with TrendCapture

Technical Data

Now compatible with Fluke Connect™ Mobile App

TrendCapture displays VAC logged data.

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** – For wireless connectivity to smart devices, the 280 Series is compatible with the Fluke IR 3000 FC Infrared Connector allowing you to share live measurements on your iOS or Android™ device with the Fluke Connect mobile app.
- Requires Fluke IR 3000 FC Infrared connector for Fluke Connect communication
- 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.

Dual Rated CAT III and CAT IV

LIMITED LIFETIME WARRANTY

Made in the U.S.A. with imported parts

Built with FLUKE CONNECT™

See it. Save it. Share it. All the facts, right in the field.

Fluke Connect with ShareLive™ video call is the only wireless measurement system that lets you stay in contact with your entire team without leaving the field. The Fluke Connect mobile app is available for Android™ (4.3 and up) and iOS (4x and later) and works with over 20 different Fluke products—the largest suite of connected test tools in the world. And more are on the way. Go to the Fluke website to find out more.

Make the best decisions faster than ever before by viewing all temperature, mechanical, electrical and vibration measurements for each equipment asset in one place. Get started saving time and increasing your productivity.

Download the app at: ANDROID APP ON Google play | Download on the App Store

Smart phone not included with purchase.

- 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.
- ⓘ 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
- Amp jack plugs 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

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 MΩ
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

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	0.05 % 0.6 % (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, 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 %
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, NEDA 15A 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 (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)
RF connection time (binding time)	May take up to 1 minute

Ordering information

287 True-rms Electronics Logging Multimeter with TrendCapture

Optional accessories
FVF-SC2 FlukeView® Forms Software with Cable
IR3000FC Fluke Connect Infrared Connector
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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