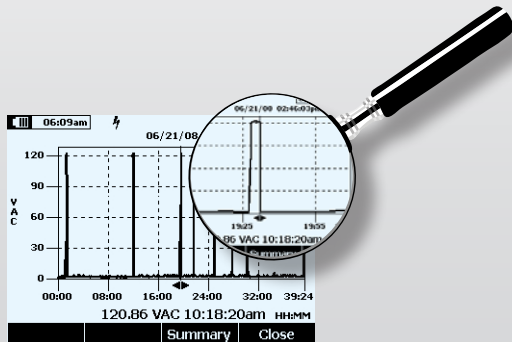


## TECHNICAL DATA

# Fluke 287 True-rms Electronics Logging Multimeter with TrendCapture



TrendCapture displays VDC logged date.

## EQUIPPED WITH NEW FUNCTIONALITY

Compatible with Fluke Connect mobile app and all Fluke FC enabled test tools with optional ir3000 FC infrared connector (sold separately).

## TALK WITH YOUR TEAM

Let your team see what you see in an instant with ShareLive™ video call (requires Fluke Connect mobile app and ir3000 FC wireless connector).

## 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.

## Features

- 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.
- **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<br>AC volts                                       | 50.000 mV,500.00 mV, 5.0000 V, 50.000 V,<br>500.00 V, 1000.0 V                         | 0.025 %<br>0.4 % (true-rms) |
| DC current<br>AC current                                   | 500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA,<br>5.0000 A, 10.000 A                      | 0.15 %<br>0.7 % (true-rms)  |
| Temperature<br>(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,<br>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,<br>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,<br>999.99 kHz                            | 0.005 %                     |
| Additional functions/features                              |                                                                                        |                             |
| 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<br>(between any terminal and earth ground) | 1000 V                                                                                 |                             |
| Battery type                                               | 6 AA alkaline batteries, 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                              | IEC 61326-1: Portable                                                                  |                             |
| Safety                                                     | IEC 61010-1 Pollution degree 2<br>IEC 61010-2-033: CAT IV 600 V, CAT III 1000 V        |                             |
| 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

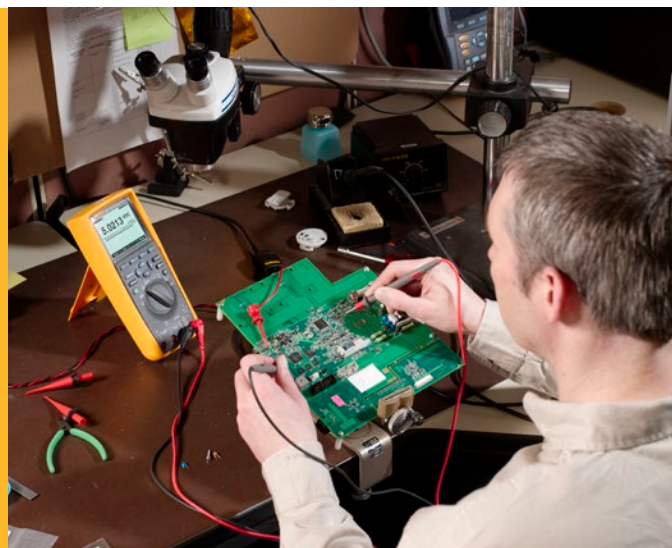
**FVF-SC2** FlukeView™ Forms Software with Cable

**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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