

# 280 Series Digital Multimeters



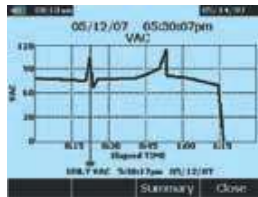
Fluke 289



Fluke 287



Precise performance



View logged data graphically on screen



## Included Accessories

TL71 silicone test leads, probe holder, 6 AA batteries (installed), user manual, Calibration Certificate Sheet.

## Ordering Information

Fluke 287	True-RMS Electronic logging multimeter with TrendCapture
Fluke 289	True-RMS Industrial logging multimeter with TrendCapture
Fluke 289/FVF	Industrial logging multimeter and Software Combo Kit (see page 11)
Fluke 287/FVF	FlukeView Forms Combo Kit (see page 11)
FVF-SC2	FlukeView Forms software including IR/USB cable

## Advanced diagnostic and logging functionality for maximizing productivity

Replacing the popular 180 Series, the Fluke 289 and Fluke 287 represent the next generation of high-performance industrial logging multimeters, including higher accuracy and greater troubleshooting convenience than ever before. With the ability to log data and review it graphically on the large display, you can solve problems faster and help minimize downtime, while working at several locations.

- Large 50,000 count 320 x 240 (1/4 VGA) dot matrix display

- Logging function with TrendCapture for easy review of logged data
- Multiple readings per display provide more information at a glance
- "I"-info button for convenient on-board help
- PC interface for easy data transfer

In addition, the Fluke 289 provides:

- Lo Pass filter for motor drive measurements
- LoZ - Low impedance function prevents false "ghost voltage" readings
- 50  $\Omega$  range for motor winding and low ohm measurements

## Features

	287	289
True-RMS measurements	AC, AC+DC	AC, AC+DC
Bandwidth (voltage/current)	100 kHz / 100 kHz	100 kHz / 100 kHz
Digital display counts (default/selectable)	50,000 / 50,000	50,000 / 50,000
Logging function with TrendCapture	●	●
Records events and trends	●	●
Internal memory	Up to 180 h	Up to 180 h
Saves measurements	●	●
Optical USB PC communications interface	●	●
Low input impedance function (LoZ)	●	●
Motor winding and low ohm measurement range		50 $\Omega$
Low pass filter	●	●
Field upgradeable/expandable meter	●	●
Navigation keys	●	●
F1-F4 soft keys/user function menus	●	●
I-info button/on board help screens	●	●
Multilingual interface	●	●
Saves preferred measurement setups	●	●
Current measurement: 20 A (30 seconds momentary; 10 A continuous)	●	●
Peak capture (records transients as fast as 250 $\mu$ s)	●	●
Continuity measurement	●	●
Min/Max/Average with Time Stamp (records signal fluctuations)	●	●
IP Rating 54	●	●

## Specifications

(Check the Fluke web for detailed specifications)

Functions	Maximum	Max. resolution	287 and 289**
Voltage DC	1000 V	1 $\mu$ V	$\pm(0.025\% + 5)$
Voltage AC	1000 V	1 $\mu$ V	$\pm(0.4\% + 40)$
Current DC	10 A	0.01 $\mu$ A	$\pm(0.15\% + 2)$
Current AC	10 A	0.01 $\mu$ A	$\pm(0.7\% + 5)$
Temperature	-200 °C to 1350 °C	0.1 °C	$\pm(1.0\% + 1\text{ °C})$
Resistance	500 M $\Omega$	0.01 $\Omega$	$\pm(0.05\% + 2)$
Conductance	50 nS	0.01 nS	$\pm(1.0\% + 10)$
Capacitance	100 mF	0.001 nF	$\pm(1.0\% + 5)$
Frequency	1 MHz	0.01 Hz	$\pm(0.005\% + 1)$

Accuracies are best accuracies for each function.

\*\* 287 and 289 accuracy and resolution are stated for 50,000 counts

**Battery life:** 50 hours minimum, 180 hours in logging mode  
**Size (HxWxD):** 222 mm x 102 mm x 60 mm

**Weight:** 0,871 kg  
**Lifetime warranty**

## Recommended Accessories



TLK289  
See page 100



TL910  
See page 99



TLK287  
See page 99



TPAK  
See page 109



C280  
See page 106