

# VR1710 Single-Phase Voltage Quality Recorder

FLUKE



Fluke VR1710



Fluke VR1710 and included accessories

## Easy-to-use solution for detecting and recording voltage quality problems

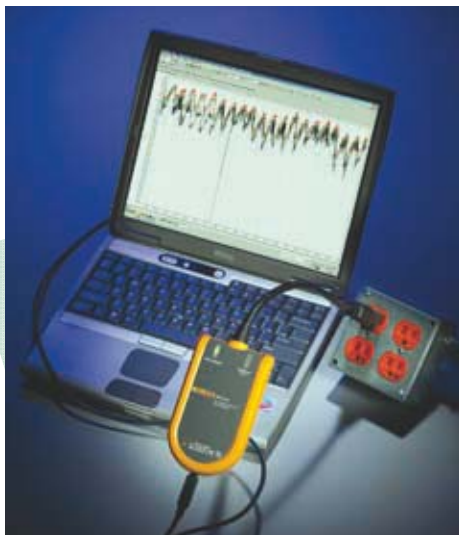
The Fluke VR1710 is a single-phase, plug-in voltage quality recorder that provides fast and easy recording of voltage trends, dropouts, harmonics and general power quality including dips and surges to help maintenance and facilities management personnel easily pinpoint the root cause of voltage problems. Voltage quality parameters including RMS average, transients, flicker, and harmonics up to the 32nd are recorded using a user-selected average period from 1 second to 20 minutes.

- Clear graphical summary of data and quick overview of key power quality parameters
- Get the complete picture with Min, Max, Average RMS values (1/4 cycle) with time stamps
- See the detailed with actual transient display (> 100  $\mu$ s) with time stamp
- Comprehensive analysis of Individual harmonic and THD values with trends

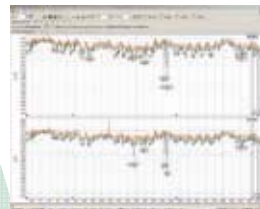
## Applications

- **Voltage recording** – Monitors and records supply voltage; measures RMS average, minimum and maximum values, and checks whether the socket outlet is providing voltage within tolerance.
- **Distortion measurement** – Measure frequency and harmonics; check whether the distorting loads (UPS systems, drives, etc.) are affecting your other equipment.

- **Flicker measurement** – Quantify the affects of switching loads on lighting systems.
- **Voltage transients** – Capture those intermittent, momentary events that may be affecting your equipment; the full waveform is captured with date, timestamp, and duration.

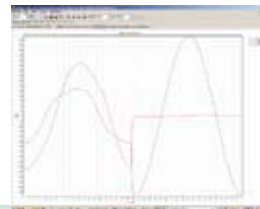


Includes PowerLog software

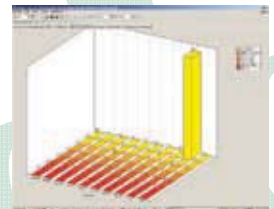


**PowerLog Setup** – Simple set up of internal clock, logging periods, and intervals with default values for quick results.

**PowerLog View** – Data presentation showing RMS voltage and harmonic trends, actual transients, summary information and statistics in accordance with EN50160.



**Actual transient display (> 100  $\mu$ s) with time stamp** – Quickly identify issues with included graphical software.



**Statistical analysis of voltage event** – reduces analysis time by tracking event quantities and magnitudes.

## Specifications

(Check the Fluke web for detailed specifications)

Operating voltage	70 V to 300 V
Min/Max/Avg RMS value	Resolution 0.125 V
Number of events	175,000
Dips/Interruptions	Yes
Time resolution	5 ms
Voltage resolution)	0.125 V
Over-voltages	Yes
Frequency	Yes
Harmonics measurement	EN 61000-4-7 (up to 32nd)
Flicker measurement	EN 61000-4-15
Number of recording channels	1 Phase to Neutral 2 Phase/Neutral to Ground
Recording time	1 day to 339 days depending on average time from 1 second to 20 minutes
Transients	Yes (> 100 $\mu$ s)
Frequency range	50 Hz $\pm$ 1 Hz and 60 Hz $\pm$ 1 Hz
Safety category rating	CAT II 300 V

## Included Accessories

Plug-in Fluke VR1710, USB cable, PowerLog software CD, universal power cord adapters.

## Ordering Information

Fluke VR1710 Voltage Quality Recorder

Display: LED  
Size (HxWxD): 23 x 19.75 x 22.2 cm

Weight: 0.8 kg  
Two years warranty



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