

Fluke VR101S Voltage Event Recorder System

Power tools for power quality



The VR101S is the perfect system for catching sags, swells, transients, outages and frequency variations on line voltage at receptacles.

The VR101S is a starter system that includes a compact VR101 event recorder, an optical interface cable, and EventView® software that turns your PC into a power quality reporting tool. The VR101S is covered by a one year warranty.

PQ measurements at receptacle branch circuits:

Application note
(Literature code 2403225)

Many power quality problems show up at the branch circuit level. There's a simple reason for this: that's where most of the sensitive loads (and sensitive employees) are located. It's also the "end of the line" of the electrical system, and the place where shortcomings can't be hidden. Let's assume you've been called in to solve the problem . . .



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Specifications - VR101S

Electrical (voltage versions, plug style, and manual languages are determined by country)			
Voltage version	Operating Range	Nominal Frequencies	Power Consumption
120 V Version	70 V to 140 V	50 Hz or 60 Hz	2 W
230 V Version*	140 V to 270 V	50 Hz or 60 Hz	3 W
* Not intended for use on U.S. 240 V power systems			
Sags, Swells and Outage Measurements			
Voltage version	Range	Accuracy	Resolution
120 V Version	Hot-to-neutral	0 to 200 Vrms	± 2 Vrms
230 V Version	Hot-to-neutral	0 to 400 Vrms	± 4 Vrms
Transient Measurements, Minimum pulse width: 1 µs			
Hot-to-neutral	100 to 2500 Vpeak	± (10 % reading + 10V)	10 V
Frequency measurements			
45 to 65 Hz	± 0.1 Hz (3 cycles min)	0.1 Hz	
Physical size (HxWxD)	85 mm x 68 mm x 35 mm (3.35 in x 2.65 in x 1.35 in)		
Weight	120 g (4 oz)		
Operating Temperature	-40 °C to 70 °C (-40 °F to 160 °F)		
Relative Humidity	0 to 95 % (non-condensing)		
Safety	CSA listed. CSA-NRTL (to UL 3111) listed. Complies with requirements of EN61010-1:1993. CAT III 300 V.		
Computer hardware requirements			
IBM PC or 100 % compatible, with Windows® 3.1, 98, ME, 2000, NT or XP installed and operating. At least one free RS-232 serial port. A pointing device (recommended). 2 MB hard drive space. 4 MB RAM (8 MB for Windows 95)			

Memory size: 4000 events
Battery type: 3.5 V Lithium (non-replaceable)
Battery life: Seven-years

For more information and detailed specifications, go to www.fluke.com/VR101

Included accessories

VR101S: VR101, Optical interface cable, and EventView Software on CD, VR101: Instruction sheet

Ordering information

VR-101S Voltage Event Recorder System

VR-101 Voltage Event Recorder

Note: At least one VR101S is required for proper operation.

Fluke Power Quality Three Phase Monitors

Fluke and Reliable Power Meters have teamed up to offer the best portable and installed three-phase power quality instruments. These full-disclosure power monitors deliver all the information you need to analyze and monitor power systems and prevent power problems.



InSite – Full-disclosure installed system in a compact package designed to monitor wherever high-quality power is critical



Multipoint – Comprehensive full-disclosure installed monitor with a hot-swappable acquisition unit for monitoring in 24/7 operations



Power Recorder – from quick set-ups to finished reports, the complete full-disclosure solution for your portable power monitoring needs