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Fluke VR101S Voltage Event Recorder System

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Application Notes

EventView Software

Specifications

Electrical	Nominal Supply: 120V version: 70V to 140V 230V version: 140V to 270V Nominal Frequencies: 120V version: 50 Hz or 60 Hz 230V version: 50 Hz or 60 Hz Power Consumption: 120V version: 2W 230V version: 3W
Sags, Swells and Outage	Hot-to-neutral Range: 120V version: 0 to 200V 230V version: 0 to 400V Accuracy: 120V version: $\pm 2V$ rms 230V version: $\pm 4V$ rms Resolution: 120V version: 1V rms 230V version: 2V rms Neutral-to-ground Range: 120V version: 3 to 200V 230V version: 3 to 120V Accuracy: 120V version: $\pm 2V$ rms 230V version: $\pm 2V$ rms Resolution: 120V version: 1V rms 230V version: 1V rms
Transient Measurements*	Hot-to-neutral Range: 100 to 2500V peak Accuracy: $\pm(10\%$ reading + 10V) Resolution: 10V Neutral-to-ground Range: 50 to 2500V peak Accuracy: $\pm(10\%$ reading + 10V) Resolution: 10V Phase angle Range: 20° to 180°, 200° to 360° Accuracy: $\pm 1^\circ$ Resolution: 1°
Time Measurements	Hot-to-neutral Accuracy: ± 0.5 cycles Resolution: 0.5 cycles Neutral-to-ground Accuracy: ± 1 cycle Resolution: 1 cycle
Events ≥ 1 second	Accuracy: $\pm(2$ sec/day + 8 sec) Resolution: 8 sec
Frequency	Range: 45 to 65 Hz Accuracy: ± 0.1 Hz (3 cycles min) Resolution: 0.1 Hz
Note	*Minimum pulse width: 1 μ s

Environmental Specifications

Operating temperature	-40 to 70°C (-40 to 160 °F)
Humidity (Without Condensation)	0 to 95%

Safety Specifications	
Safety	Protected to EN61010-1 CAT III 300 V CSA and UL listed

Mechanical & General Specifications	
Size	85 mm x 68 mm x 35 mm (3.35 in x 2.65 in x 1.35 in)
Weight	120 g
Warranty	1 year
Battery life	7 years
Battery type	3.5V lithium (non-replaceable)
Memory size	4000 events
Computer Hardware Requirements	IBM PC or 100% compatible with Windows® 3.1, Windows® NT or Windows® 95/98 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 95/98)