



Mains Disturbance Recorder - MDR220

MDR 220 is the easiest way to monitor and record essential voltage disturbance information from any 220/240 volt power receptacle. Just set up your pre-determined disturbance threshold values or use the industry standard default values and plug it in. No wiring or dangerous connections required.

APPLICATIONS

Auditing medical instrumentation, point-of-sale terminals, computer servers, and other sensitive electronic equipment.

GENERAL SPECIFICATIONS

Size:	85mm x 68mm x 35mm (3.35" x 2.65" x 1.35")
Weight:	120 gm
Case Material:	Noryl [®] Plastic
Battery:	3.6 volt Lithium, 1 Amp-Hour
Fuse:	1/16A fast-blow (Non-replaceable)
Clock Accuracy:	± 2 seconds per day
Memory Size:	32 KB (4,000 events)
Sampling Methods:	Continuous (First-in First-out), Stop When Full (Fill-then-stop)
Operating Limits:	-40°C to 70°C and 0 to 95% RH (non-condensing)
Alarm Type:	Optical (flashing red LED)
Certifications:	CSA: NRTL/C; UL3111-1
Event Types Detected:	Surges, sags, impulses, dropouts, outages, and frequency variations
Measurement Locations:	Hot to Neutral and Neutral to Ground
PC Requirements:	Windows PC with at least one free USB or serial port (depending on interface)



MEASUREMENT SPECIFICATIONS

Surge, Sag & Outage	Hot to Neutral	Neutral to Ground
Range:	0 to 400V rms	3 to 200V rms
Accuracy:	±2V rms + resolution	±1V rms + resolution
Resolution:	2V rms	1V rms
Impulse	Hot to Neutral	Neutral to Ground
Range:	100 to 2500V peak	50 to 2500V peak
Accuracy:	±10% of reading + resolution	±10% of reading + resolution
Resolution:	10V	10V
Width Detection:	1 µsec minimum	1 µsec minimum
Phase Angle:		
Accuracy:	±1° (20 to 180°, 200 to 360°)	±1° (20 to 180°, 200 to 360°)
Resolution:	1°	1°
Frequency		
Range:	45 to 65 Hz	
Accuracy:	±0.1 Hz (3 cycles minimum)	
Resolution:	0.1 Hz	
Time		
Events (<1 second)	Hot to Neutral	Neutral to Ground
Accuracy:	±0.5 cycle	±1 cycle
Resolution:	0.5 cycle	1 cycle
Time Stamp (>1 second)		
Accuracy:	±2 seconds/day + resolution	
Resolution:	8 seconds	