

PowerMonic

Technical Specifications

	Voltage	Current
Input Channels	4 (isolated)	4
Measuring Range (RMS)	A, B & C channels: 0-600 VAC GND channel: 0 - 60 VAC	0-3000 Amp
Frequency Range	50Hz nominal (42.5Hz - 57.5Hz) 60Hz nominal (51.0Hz – 69.0Hz)	50Hz nominal (42.5Hz - 57.5Hz) 60Hz nominal (51.0Hz – 69.0Hz)
Instrument Accuracy	A, B & C channels: ±0.4% reading ±1 lsd GND channel: ±1% reading ±1 lsd	±0.4% reading ±1 lsd
System Accuracy	±0.4% reading ± 1 lsd	1% reading ±1lsd (0.5M Current probes)
Resolution Logged Data	A, B, C & GND channels: 0.01 Volt	0.01 Amp
Resolution Display	0.1 Volt	0.1 Amp
Instrument Type	Class B (IEC 61000-4-30)	
Samples / Cycle	204 @ 50Hz, 170 @60Hz	
Samples rate	PLL synchronised	
Logged Parameters	IEC61000-4-30 V, A, Min/Max, Freq, TPF, DPF, kW, KVA, kVAR	
Frequency	IEC61000-4-30 (+/- 0.02Hz)	
Total Harmonic Distortion	IEC61000-4-7 (THD-F & THD-R)	
Harmonics	IEC61000-4-7 (Up to 48th, Magnitudes & Angles)	
Interharmonics	IEC61000-4-7 (Up to 48th)	
Flicker (Pst & Plt)	IEC61000-4-15 (10min Pst, 2hr Plt, logged every 10min)	
Voltage & Current Unbalance	IEC61000-4-30	
Waveform Capture	Duration: 400ms Triggers: Half Cycle RMS, $\frac{dv}{dt}$	
RMS Capture	Half Cycle RMS 50Hz - 5s to 30s configurable 60Hz - 5s to 25s configurable	
Sag / Swell Capture	Half Cycle RMS	
Circuit Connections	Star/Wye, Delta, Delta, Split Phase, Single Phase, Generic Independent Measurement.	

Mechanical Specifications

Display	Graphic LCD 128 x 64bits
Memory	15MB FLASH
Communications	USB1.1 for Local operation, RS232 for Remote operation
Power Consumption	Maximum 12 VA (10 W typical) from Phase A
Power Source Main	Phase A to Neutral 60 – 600 Volts AC 50 or 60 Hz
Power Source Backup	6 V 0.5 Ah Rechargeable Sealed Lead Acid (not user replaceable)
RTC Battery	3 V 950 mAh Li-Manganese Dioxide / Organic Electrolyte (not user replaceable)
Dimensions	230 mm (l) x 120 mm (w) x 90 mm (d) or 9.1" (l) x 4.72" (w) x 3.6" (d)
Weight	3 kg (7 lbs) instrument only, 7kg (16 lbs) typical with accessories in carry case

Environmental Safety

Ambient Temperature	-20°C to +60°C (-4°F to +130°F). Note: standby battery is disabled when ambient temperature exceeds +45°C (113°F)
Protection Class	AS 60529-2004 - IP66
Classifications	IEC 61010-1 2001 Pollution Degree 3 Measurement Category IV 600 Volts (Double Insulation or Reinforced Insulation, Altitude up to 2000 m)