

In-Site Power Monitoring System



Overview

Powerside's In-Site cloud-based monitoring service delivers real-time data about your power. Our 24/7/365 platform provides actionable information on energy consumption, power quality trends, and power events. Our all-inclusive solution enables businesses to continuously detect power threats, helps determine the root cause of a problem, and take action when necessary. No need to spend hours troubleshooting, hiring third-party analysts wasting both time and money.

Features

- 24/7/365 power quality monitoring
- User friendly dashboard for desktop operational oversight
- Real-time data on power quality and consumption
- Data-driven utility provider management
- Analyses power quality trends and detects power security issues such as
 - Transients
 - Harmonics
 - Reactive power
 - Network unbalance
 - Voltage variations
 - Flicker
- Captures events with high resolution waveform data

Benefits

- Reduce energy and operating costs
- Increase production uptime
- Prevent premature equipment wear or damage
- Avoid safety issues
- Safeguard sensitive electronics
- Protect LED lighting

Product Description

In-Site Technical Specifications	
Dimensions (L x W x H)	16.00 x 7.60 x 18.00 in (40.64 X 19.30 X 45.72 cm) Height with antennas 16.00 x 7.60 x 24.30 in (40.64 X 19.30 X 61.72 cm)
Weight	36 lbs (16.33 kg)
Power supply (LV)	Self-powered from sensing lines. 480Vac or 600Vac Nominal voltage
Power supply (MV)	Requires separate power supply
Environmental	Indoor use
Temperature	-20 to 50 °C (-4 to 122 °F)
Humidity	5 to 95 % non condensing

Measurement Functions

Voltage	
Sampling Rate	512 samples per cycle at 50 Hz / 60 Hz (applies to voltage, current, and analog channels)
Number of Inputs	4 + Reference to earth (L1, L2, L3, N, E)
Range	0 - 750 VAC (L-N), 0 - 1300 VAC (L-L), impedance: 4.8MΩ
Voltage Magnitude	L-L, L-N, L-E, and N-E. RMS over 1/2 cycle (Urms 1/2)
Frequency	50 Hz, 60 Hz
Unbalance (negative and zero sequence)	IEC, GB, and ANSI methods
Flicker (Pinst, Pst, and Plt)	According to IEC 61000-4-15
Voltage Harmonics & Inter-harmonics	%fundamental, IEC 61000-4-7 Class 1, order up to 50th
High Frequency Impulse (voltage)	Record transient pulses on one channel (L1-E, L2-E, L3-E, or N-E) at 4 MHz sampling, or all four channels at 1 MHz, range: ± 6 kV
Sag/Swells/Interruptions	IEC 61000-4-30 Ed3

Current	
Number of Inputs	5 inputs, phase currents I1,I2,I3, neutral current, ground current
Current Magnitude	RMS refreshed 1/2 cycle (Irms 1/2)
Unbalance (negative and zero sequence)	%, as per std IEC 61000-4-30
Current Harmonics & Inter-harmonics	Amp, order up to 50th as per std IEC 61000-4-7
Total Demand Distortion (TDD)	Amp, as per std IEC 61000-4-7



Power

Number of Inputs	4-channels
Active Power	kW (per phase and total)
Reactive Power	kVAR (per phase and total)
Apparent Power	kVA (per phase and total)
Power Factor	TPF or DPF (per phase and total)

Energy

Energy (Import, Export & Net)	KWh (per-phase and total)
Reactive Energy (Import, Export & Net)	KVARh (per-phase and total)
Apparent Energy	KVAh (per-phase and total)



All specs are subject to change without notice.

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