





LineWatch L

Distribution Grid Sensing and Monitoring for Low Voltage Applications

Power performance monitoring for overhead and underground low voltage applications

LineWatch L is a near revenue-grade electric power distribution grid sensing and monitoring system for low voltage applications. The robust and versatile design allows for installation in both overhead and underground locations and can support. any communications network.

Market applications:

Grid Automation

Enable remote monitoring and operation of grid infrastructure for more efficient and automated management of the grid avoiding operatinal costs.

Voltage and Power Measurements

Improve efficiency of the distribution grid by monitoring voltage, current, real and reactive power.

Fault Detection and Outage Management

Voltage based solution for high precision fault detection and location.

Asset Management

Asset monitoring for improved management and allocation of capital.

Theft Detection/Anomalous Usage

Identify, reduce and eliminate power theft by deploying sensor technology as an energy balancing tool identifying losses, interruptions and anomalous usage.

Green Energy/Renewables Integration

Distributed generation interconnection permitting and ongoing monitoring.

FEATURES/BENEFITS

- Delivers near revenue-grade
- (0.5%) current and voltage accuracies
- User configurable alarms/events
- Remote monitoring of grid infrastructure
- Integrated reporting tools
- Data storage up to 30 days
- Browser based user interface
- Grid intelligence for reducing operating and maintenance costs and improving grid stability
- Simple installation; clamp fits a wide variety of conductors and bus bars
- Integrated voltage and current sensors















	Technical Spe	cification	S	
	Sensing System Capabilities			
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Available Configurations	Single Phase 3 Wire or Three Phase 4 Wire	Interval	60 seconds	
Electrical Frequency	50 and 60 Hz	Rated Current	1200 Arms	
Rated Voltage	120V (line-to-neutral) / 208V (line-to-line) to 347V (line-to- neutral) / 600V (line-to-line)	Maximum Current	1400 Arms	
Voltage Accuracy	± 0.5%	Current Accuracy	± 0.5%	
Power & Energy Accuracy	± 1%	Power Quality	Computes amplitude of voltage/current up to the 13th harmonic; total harmonic distortion	
Power Factor Accuracy	± 24 arc minutes	Data Storage	30 days of data; downloadable CSV	
Fault Detection	Waveform capture of faulted voltage, 4 cycles before fault, 28 after event starts		or .XLSX file	
LineWatch L tested to ANSI C12.20 Standard				
Physical and Environmental				
Weight	11.5 lbs.	Enclosure Dimensions	10"W x 14"H x 5"D	
Operating Temperature	-40°C to 50°C	Storage Temperature	-40°C to 85°C	
Humidity	0 - 95% RH	NEMA Rating	4X; 6 available upon request	
Humidity Pad Mounted Transformer Bus Bar Dimensions	0 - 95% RH Thickness: Minimum of 0.25"/ Maximum of 0.75" Width At Neck: Maximum of 2" Bushing Diameter: Maximum of 2.75"	Conductor		
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