



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

Assetmonitoring 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 Specifications			
Sensing System Capabilities			
Available Configurations	Single Phase 3 Wire or Three Phase 4 Wire	Reporting 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	± 0.5%	Current Accuracy	± 0.5%
Accuracy 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; downloadableCSV or .XLSX file
Fault Detection	Waveform capture of faulted voltage, 4 cycles before fault,28 after eventstarts		
		ANGL 612.20 Share	davd
LineWatch L tested to ANSI C12.20 Standard Physical and Environmental			
Weight	11.5 lbs.	Enclosure Dimensions	10"W x 14"H x5"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
Pad Mounted Transformer Bus Bar Dimensions	Thickness: Minimum of 0.25"/ Maximum	Conductor Dimensions	Maximum conductor diameter of 1.625
	of 0.75" Width At Neck: Maximum of 2" Bushing Diameter: Maximum of 2.75"		inches Minimum conductor diameter of 0.375 inches
Communications and Security			
Communication Options	Wired Ethernet Port	System Logs	30 days of storage of 1 minute intervals of
	WiFi 802.11 b/g/n	DNP3 Communications	measurement, system and status data DNP3 Level 4+ Subset Definitions
	Cellular Modem Communications Supports 4G LTE Networks and	- Communications Protocols	On demand reporting to a central
	CDMA/GSM		monitoring or SCADA system
	WiMAX		compatible via DNP3
	Serial Port for NIC integration		Support also includes TCP / IPv4, TCP /
	Cisco "Connected Grid" IEEE 802.15.4g		IPv6, UDP / IPv4, UDP / IPv6 External visual indication of system
	Mark Natural with ID-C	LED Indicators	the all the section of a system







health and phase outages

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Mesh Network with IPv6