



LineWatch® L

For Low Voltage Applications

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

Market applications include:

Grid Automation: Remote monitoring and operation of utility infrastructure for more efficient grid management

Voltage and Power Measurements: Voltage, current, real and reactive power monitoring improves grid efficiency

Fault Detection and Outage Management: Identifies location of faults for quicker power restoration

Asset Management: Asset monitoring for improved management and allocation of capital

Theft Detection/Anomalous Usage: Energy balancing to identify, reduce and eliminate power theft

Green Energy/Renewables Integration: Distributed generation interconnection permitting and ongoing monitoring

Key Features and Benefits

Delivers near revenue-grade (0.5%) current and voltage accuracy

User configurable alarms/events

Integrated reporting tools

Data storage up to 30 days

Browser based user interface

Simple installation; clamps fit a wide variety of conductors and bus bars

Integrated voltage and current sensors

Supports any utility communications platform

Improves grid awareness for better operational efficiencies

Enables fault detection and location

Facilitates energy balancing to identify and reduce power theft

Reduces service interruptions

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Sensing System Capabilities

Sensing System Capabilities	
Single Phase 3 Wire or Three Phase 4 Wire	
50 and 60 Hz	
120V (line-to-neutral) / 208V (line-to-line) to 347V (line-to-neutral) / 600V (line-to-line)	
± 0.5%	
± 1%	
± 24 arc minutes	
Waveform capture of faulted voltage, 4 cycles pre-fault, 28 cycles post-event start	
60 seconds	
1200 Arms	
1400 Arms	
± 0.5%	
Computes amplitude of voltage/current up to the 13th harmonic; total harmonic distortion	
4kHz	
30 days of data; downloadable CSV or .XLSX file	
LineWatch L tested to ANSI C12.20 Standard	

Physical and Environmental

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Weight	11.5 lbs.
Operating Temperature	-40°C to 50°C
Humidity	0 - 100% RH
Pad Mounted Transformer Bus Bar Dimensions	Thickness: Minimum of 0.25"/ Maximum of 0.75" Width At Neck: Maximum of 2" Bushing Diameter: Maximum of 2.75"
Enclosure Dimensions	10" x 14" x 5" (W x H x D)
Storage Temperature	-40°C to 85°C
NEMA Rating	4X
Conductor Dimension	Maximum conductor diameter of 1.625 inches Minimum conductor diameter of 0.375 inches

Communications and Security

Communication Options	Wired Ethernet Port WiFi 802.11 b/g/n Cellular Modem Communications Supports 4G LTE Networks and CDMA/GSM WiMAX via Ethernet/Serial Ports Serial Port for NIC integration
System Logs	30 days of storage of 1 minute intervals of measurement, system and status data
DNP3 Communications	DNP3 Level 4+ Subset Definitions
Communications Protocols	On demand reporting to a central monitoring or SCADA system compatible via DNP3 Support also includes TCP/IPv4/v6, UART, HTTP GET
LED Indicators	External visual indication of system health and phase outages

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Collaborating with QinetiQ

At QinetiQ we bring organizations and people together to provide innovative solutions to real world problems, creating customer advantage. Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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