





LineWatch M

Distribution Grid Sensing and Monitoring for Medium Voltage Applications Power performance monitoring of the medium voltage distribution grid without a neutral

connection

LineWatch M delivers near revenue grade (0.5%) current and voltage accuracy to address a variety of utility applications. The "bird-on-wire" design supports fast and safe hot stick installation greatly reducing deployment expense and total cost of ownership. LineWatch incorporates a flexible design that supports any utility communications platform.

Market applications:

Grid Automation

Enable remote monitoring and operation of grid infrastructure for more efficient and lower operational cost management.

Volt/VAR Optimization

Sensors can be used as part of a centralized VVO system or locally—an easily installable alternative to instrumentation transformers or line post sensors.

Substation Monitoring

Enables remote monitoring and supervision of critical assets located at substations without need for costly renovations or service interruptions.

Fault Detection and Outage Management

Easily indentify the location of a fault to guicker power restoration.

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.

Voltage, Current and Power Measurement

Improve the eficiency of the distribution grid by monitoring voltage, real and reactive power

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 vol tage and current sensors







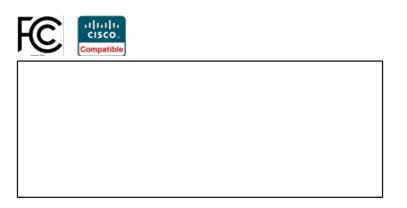








	Technical Sp	ecification	S
	Sensing Syste	em Capabilities	
Available Configuration	Up to 6 Sensors per Data Collector		60 seconds
Electrical Frequency	50 and 60 Hz	Rated Current	400 Arms
Rated Voltage	2.4 to 19.9 kVRMS φ to Neutral	Maximum Current	600 Arms
Voltage Accuracy	± 0.5%	Current Accuracy	± 0.5%
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		
Fault Detection	Waveform capture of fault current as per IEEE 495 (10 kA and 25 kA scales, 4 cycles before fault, 8 after event starts)	- Data Storage	30 days of data; downloadable CSV or .XLSX file
	LineWatch M tested to	ANSI C12.20	O Standard
	Physical and	Environmental	
Weight	Sensor – 4.4 lbs. Data Collector – 3.45 lbs.	Dimensions	Sensor – 9.1"W x 5.1"H x 10.2"D Data Collector – 10.5"W x 18.1"H x 5.9"D
Operating Temperature	-40°C to 50°C	Storage Temperature	-40°C to 85°C
Humidity	0 – 95% RH	NEMA Rating	Sensor – IP65 Data Collector – NEMA 4X (6 available)
Environmental Condition	Patent-pending weather resistant sensing method, impervious to rain/snow/etc.	Conductor Size	Maximum conductor size: 447 kcmil Minimum conductor size: #2 AWG
	Communicatio	ns and Security	
	Wired Ethernet Port WiFi 802.11 b/g/n	System Logs	30 days of storage of 1 minute intervals of measurement, system and status data
	Cellular Modem Communications Supports 4G LTE Networks and	DNP3 Communication	DNP3 Level 4+ Subset Definitions
Communication Option	CDMA/GSM WIMAX	Communications Protocols	On demand reporting to a central monitoring or SCADA system compatible via DNP3
	Serial Port for NIC integration		Support also includes TCP / IPv4, TCP / IPv6, UDP / IPv4, UDP / IPv6





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