



Check Tool

For Medium Voltage Applications

The LineWatch[®] Check Tool is an integral part of the LineWatch M sensor installation. The Check Tool is a fully automated system designed to quickly and easily calibrate the sensors in the field with highly accurate voltage (0.1%) and phase angle measurements.

The Check Tool can also be used as a precision stand-alone, quick reference tool for spot measuring phase-to-neutral voltage and phase current and power flow on a live line.

A patented capacitive voltage divider delivers unprecedented accuracy

Uses include:

- Measuring feeder primary voltage, current and power
- Troubleshooting distribution circuits
- Site survey for capacitor bank placement

Key Features and Benefits

Quick and easy sensor calibration in the field

Measures live line conditions

No need for multiple tools—combined current and voltage in same device

Real and reactive power flow measurements

Windows-compatible RF Dongle for automated setup and reporting

Can log measurements to local file

Most accurate hot stick power meter on the market

Automated Setup Tool software makes LineWatch M sensor install quick and easy

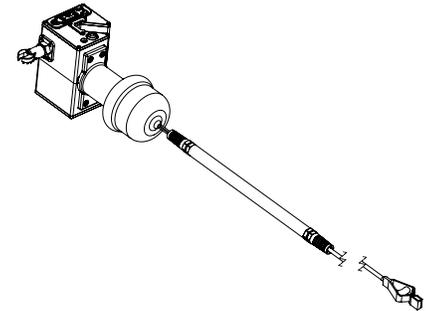
Compatible with any Windows based PC/laptop/tablet

Sensing System Capabilities

Electrical Frequency	50 and 60 Hz
Rated Voltage	4 to 36 kV _{RMS} ϕ to ϕ
Voltage Withstand	IEC 60044-7:1999 35kV class: 70kV Power Frequency withstand, 170kV BIL
Voltage Accuracy	\pm 0.1%
Phase Angle Accuracy	\pm 5 Arc Minutes
Power Accuracy	\pm 0.6%
Update Rate	5 seconds
Rated Current	400 Arms
Maximum Current	600 Arms
Current Accuracy	\pm 0.5%
Radio Frequency	2.4GHz ISM Band
Communication Range	50 ft

Physical and Environmental

Weight	5.6 lbs.
Operating Temperature	-20°C to 30°C
Humidity	0 - 95% RH
Conductor Sizes	#2 AWG to 795 kcmil
Storage Temperature	-40°C to 85°C
Ingress Protection	IP 65



Voltage:	14,114.8	Vrms
Current:	28.69	Arms
Power Factor:	0.9209	Lead
Phase Angle:	-22.896	deg
Real Power:	372.9	kW
Reactive Power:	-157.5	kVAr
Apparent Power:	404.9	kVA

Temperature: 22.3 °C

Battery  Battery Level Normal.

Connection

Calibration Sensor SN:

Screen shot of CT user interface

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Collaborating with QinetiQ

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