

TMS Overhead Transformer Meter

Identify Power Diversion Locations

Quickly Install with Piercing Voltage Connectors

Drive by Deployed Meters for Instant Download

Communicate through Secure Radio Protocols

Review Transformer Load Profiles



Overhead TMS deployment



The SensorLink Transformer Meter provides utility groups with precise secondary load data to identify inefficient transformer loading & theft, without the requirement of Advance Metering Infrastructure.

The innovative design allows the utility to quickly install it at any point between the transformer and the meter. This low-profile unit is discreet and difficult to visually detect from distance.

Approximately 330 days of interval data stores on the system. Using secure radio protocol, this stored data is downloaded while the meters are still deployed on the line.

The drive-by Transformer Meter is designed to capture the following parameters:

- Accumulated kilowatt hours
- Average Volts
- Average Amps
- Interval Kilowatt Hours

The secure point-to-point radio communication is a standards based, non-licensed wireless network solution that supports low power consumption, security, and reliability. The radio in the Transformer Meter communicates to a USB radio transceiver that is connected to the user's laptop.

The TMS Meters easily install onto the secondary of a pole mounted Transformer. The open core CT allows installation while the transformer is energized. The meters employ a low voltage, insulation piercing connector that securely attaches the sensor to the conductor. This voltage connection supplies the voltage measurement and the power to operate the Transformer Meters.

SensorLink's Steelhead Software is a customized user interface for the setup, download, and review of the recorded data. Data may also be saved to a .csv file for uploading and review in other software programs.

Applications

Power Diversion studies

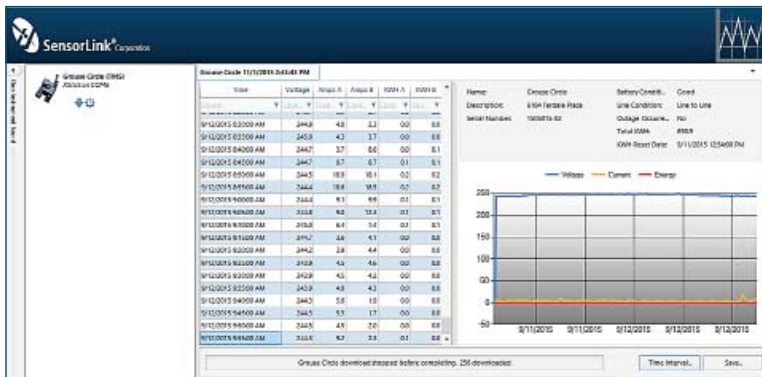
Transformer Loading

Meter verification



Overhead Transformer Meter

Model Number	950		
Type	Single phase, transformer meter		
Range of Operation		Radio	
Voltage	100 - 277 VAC	Type & Band	ISM 2.4 GHz
Current	1 - 700 Amps	Transmit Distance	300 Feet (100 meters)
Resolution		Transmit Power	63 mW (18 dBm)
Voltage	0.1 V	Transmit Power (EU & Japan)	10 mW (10dB)
Current	0.1 AMP	Mechanical	
Watts	0.1 kW	Weight	1.5 lbs, 0.68 kg
KWH	0.1 KWH	Sensor Opening	1 inch, 25 mm
Accuracy		Conductor Range	#2 to 600 kcmil
Current 1 A to 3 A	0.5% ± 2 digit	Max Insulation Thickness	Up to 100 mils, 2.5 mm
Current 3 A to 700 A	0.5% ± 1 digit	Power	
Voltage	0.5% ± 1 digit	System	Line Powered
KWH	1% ± 1 digit	Clock Battery Backup	14 days
Software Requirement	SensorLink's Steelhead Software	Battery	2 each CR2032 Lithium coin cells
System Requirements	Win XP (SP3), VISTA, Win 7, Win 8 , & Win 10	Logging Capacity	330 days @ 5 min intervals
Standards Compliance	ANSI C12.1-2008, ANSI/IEC 60529, ASTM B117, ASTM G155, CISPR 22, FCC Part 15, IEC 60060-1-2:2010, IEC 60695-2-11, IEC 61000-4-2:2006, IEC 61000-4-3:2010, IEC 61000-4-4:2012, IEC 61000-4-5:2005, IEC 61000-4-6:2008, IEEE C37.90.1-2002, IEEE C62.41.2-2002, ISTA Procedure 1A, UL 50		



Steelhead for TMS: Download Screen



Steelhead for TMS: Graphing Screen



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