

AMP LITEWIRE

HIGH VOLTAGE AMMETER PROBE

FEATURES

- Analog output for waveform analysis
- Fiber optic cable brings signal to ground
- Compatible to portable test analyzers



MEASURE PRIMARY CURRENT WAVEFORMS

This probe provides waveform analysis for sophisticated low voltage analyzers, which are otherwise incapable of measuring primary distribution in high voltage

The Amp Litewire is a two-piece true RMS high voltage rated ammeter designed to measure True RMS current on the primary side of a distribution network. The sensor probe is attached to an insulated hot stick and positioned onto the medium or high voltage line. A fiber optic cable connects the sensor probe to a receiver unit at ground potential, which delivers the current waveform measurement as an analog output to a meter analyzer.

The analog output is a reproduction of the high voltage current waveform, accurate to the 50th harmonic, and available as a 0 - 2 volt AC signal at ground. This probe provides utilities the ability to use one of many sophisticated low voltage scopes, waveform acquisition recorders, analyzers, or other analysis instruments, which are otherwise not capable of analyzing measurements in primary distribution and high voltage environments.

The fiber optic cable is physically rugged, while providing a high speed data path required for digital waveform transmission. The cable is the high voltage insulator between the two units, and is specified to provide 100 kV isolation per foot.

The sensor probe has no moving parts and does not require clamping onto the wire. The housing is water resistant and will withstand high physical impact.

The Amp Litewire is known to be compatible with low voltage analyzers by TEC, Radian, MTE, EMH, CALMET, FLUKE, Dranetz, ZERA, and EMSYST.

APPLICATIONS

Connects to low voltage analyzer

Output current for waveform analysis of primary conductors

Allows low voltage analyzers to monitor high voltage waveforms

AMP LITEWIRE SPECIFICATION		
Model Number	8-01503 XT	8-01603
Amp Sensor Opening	2.5 in, 6.35 cm	3.86 in, 9.84 cm
Weight	4.8 lbs, 2.18 kg	6.0 lbs, 2.73 kg
Range		
Current	1-2000 True RMS Amps	
Voltage Environment, phase to phase	up to 433 kV	
Voltage Environment, phase to ground	up to 250 kV	
Accuracy	± 1%, ± 0.1 millivolt	
Resolution		
1-199.9 A	.1 A	
200 - 2000 A	1 A	
Phase Angle	±1°	
Analog Output	1 mv RMS per amp Output connector is BNC. No DC offset voltage.	
Output impedance	420 ohms, maximum	
Frequency Response	3000 Hz or to the 50th Harmonic	
Fiber Optic Cable		
Length	40', 12.19 m	
Isolation	100 kV per foot	
Mechanical		
Housing	Shock & water resistant molded urethane	
Hot stick Mounting	Universal chuck adaptor (Hot stick not included)	
Battery	Two each 9V alkaline or lithium; one per unit	
Battery Life	Minimum eight hours of continuous use	
Operating temperatures	-22° to +140° F, -30° to +60° C Lithium battery required for use below -4°F (-20° C)	
Optional Accessories		
7-017	Hanger assembly for 8-01503 XT	
7-016	Hanger assembly for 8-01603	
7045	Hard carrying case	



WJ Amp Litewire + Fiber Optic Cable



Optional Amp Litewire Hanger Assy.



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