# **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.

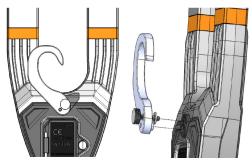
The fiber optic cable is physically rugged, while providing a high speed data path required for digital waveform transmission. The cable is the high voltage insulator between the two units, and is specified to provide 100 kV isolation per foot.

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.

XT Amp Litewire + Hanger attachment Amp Litewire Remote

## **AMP LITEWIRE**



### PRODUCT APPLICATIONS

Connects to low voltage analyzer

Output current for waveform analysis of primary conductors

Allows low voltage analyzers to monitor high voltage waveforms

Attaching Amp Litewire Hanger Assembly

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  Voltage Environment, phase to ground  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  Cution 1	AMP LITEWIRE SPECIFICATION		
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 Voltage Environment, phase to ground  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  Optional Accessories			8-01603
Range Current 1-2000 True RMS Amps Up to 433 kV  Voltage Environment, phase to phase Voltage Environment, phase to ground Accuracy  ± 1%, ± 0.1 millivolt  Resolution 1-199.9 A 200 - 2000 A 1 A  Phase Angle 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  Optional Accessories	Amp Sensor Opening	2.5 in, 6.35 cm	3.86 in, 9.84 cm
Current  Voltage Environment, phase to phase  Voltage Environment, up to 433 kV  plase to ground  Accuracy  ± 1%, ± 0.1 millivolt  Resolution  1-199.9 A  200 - 2000 A  Phase Angle  Analog Output  I my RMS per amp Output connector is BNC. No DC offset voltage.  Output impedance  Frequency Response  Fiber Optic Cable  Length  Isolation  Housing  Hot stick Mounting  Battery  Two each 9V alkaline or lithium; one per unit  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	Weight	4.8 lbs, 2.18 kg	6.0 lbs, 2.73 kg
Voltage Environment, phase to phase  Voltage Environment, phase to ground  Accuracy  ± 1%, ± 0.1 millivolt  Resolution  1-199.9 A  200 - 2000 A  1 A  Phase Angle  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  Mechanical  Housing  Hot stick Mounting  Battery  Two each 9V alkaline or lithium; one per unit  Mainmum 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)	Range		
phase to phase  Voltage Environment, phase to ground  Accuracy  ± 1%, ± 0.1 millivolt  Resolution  1-199.9 A  200 - 2000 A  1 A  Phase Angle  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  Battery  Two each 9V alkaline or lithium; one per unit  Minimum eight hours of continuous use  Operating temperatures  Cptional Accessories	Current	1-2000 True RMS Amps	
phase to ground  Accuracy	, , , , , , , , , , , , , , , , , , , ,	up to 433 kV	
Resolution  1-199.9 A  200 - 2000 A  1 A  Phase Angle  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)		up to 250 kV	
1-199.9 A 200 - 2000 A 1 A Phase Angle 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)	Accuracy	± 1%, ± 0.1 millivolt	
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)	Resolution		
Phase Angle  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)	1-199.9 A	.1 A	
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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)	Phase Angle	±1°	
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)	Analog Output	· ·	
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	Output impedance	420 ohms, maximum	
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)	Frequency Response	3000 Hz or to the 50th Harmonic	
Isolation  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)	Fiber Optic Cable		
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	Length	40', 12.19 m	
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  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	Isolation	100 kV per foot	
Hot stick Mounting  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	Mechanical		
Battery  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	Housing	Shock & water resistant molded urethane	
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	Hot stick Mounting	Universal chuck adaptor (Hot stick not included)	
Operating temperatures -22° to +140° F, -30° to +60° C Lithium battery required for use below -4°F (-20° C)  Optional Accessories	Battery	Two each 9V alkaline or lithium; one per unit	
Lithium battery required for use below -4°F (-20° C)  Optional Accessories	Battery Life	Minimum eight hours of continuous use	
	Operating temperatures		
	Optional Accessories		
7-017 Hanger assembly for 8-01502 XT	7-017	Hanger assembly for 8-01502 XT	
7-016 Hanger assembly for 8-01602	7-016	Hanger assembly for 8-01602	
7045 Hard carrying case	7045	Hard carrying case	



XT Amp Litewire Underground



WJ Amp Litewire Underground



WJ A<mark>mp Litewire + Hange</mark>r attachment