

VOLT LITEWIRE

HIGH VOLTAGE VOLTMETER PROBE

FEATURES

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



MEASURE PRIMARY WAVEFORMS

This probe provides waveform analysis for sophisticated low voltage analyzers, which are otherwise incapable of measuring primary distribution voltage up to 40 kV.

The Volt Litewire is a two-piece, True RMS voltmeter with a fiber optic link between the high voltage sensor and the readout at ground potential. The sensor is mounted on a hot stick and slipped onto a medium voltage line for measuring voltage phase to phase or voltage phase to ground. The fiber optic cable connects the sensor to a receiver unit at ground potential, which contains the digital readout and provides an analog output.

The instrument has no moving parts and does not require clamping onto the wire. The housing is made of urethane and built to operate in severe utility environments.

The fiber optic cable is physically rugged, while providing the high speed data path required for digital waveform transmission from the sensor to the display unit. It is tested to provide 100 kV isolation per foot, higher than the meter rating.

The analog output is the unique feature of this instrument. It is a reproduction of the high voltage current waveform, available as a 0 - 2 volt AC signal at ground. This 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 medium voltage environments.



Volt Receiver at Ground

APPLICATIONS

Waveform analysis of primary conductors

Connect to low voltage analyzers for monitoring high voltage waveforms

VOLT LITEWIRE SPECIFICATION

Model Number	8-014
Range of Operation	
Voltage	0-40 kVAC
Resolution	
Voltage 0-20 kVAC	10 V
Voltage 20+ kVAC	100 V
Voltstick Weight	5.5 lbs, 2.50 kg
Accuracy	±2%
Analog Output	50 mv per kV (2 volts = 40 kV)
Output Impedance	6000 ohms minimum
Frequency Response	2500 Hz, which is above the 40th Harmonic at 50Hz or 60Hz
Operation	
Controls	Single button switch operation per unit. One switch on the transmitter, one switch on the receiver
Electrodes	Detachable
Frequency, 50 Hz	47 to 53 Hz
Frequency, 60 Hz	57 to 63 Hz
Mechanical	
Display	3.5 Digit Display on Receiver
Housing	Shock & water resistant molded urethane
Hot Stick Mounting	Universal chuck adapter (hot stick not included)
Battery	Two each 9V alkaline or lithium; one per unit
Battery Life	Minimum 4 hours of continuous use
Operating Temperature	-22° to +140° F, -30° to +60° C Lithium battery required for use below -4°F (-20° C)
Fiber Optic Cable	
Length	40', 12.19m
Isolation	100 kV per foot
Options	
Model 7-03210	10', 3.05 Extension Cable (Longer lengths available from factory)
Model 7-026-1	40 Ft (12.19 m) Fiber Optic Cable
Model 7045	Hard Carrying Case

The Volt Litewire is not a recording device and is not designed to be deployed on a conductor for continuous lengths of time.



Volt Litewire Set



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