

High Voltage sensor 40kV for analysers and testers

Calmet VLW40kVC.1	
•	Wide range of voltage measurement: 1kV to 40kV
•	Fiber optic isolation up to 40kV!
•	Phase – ground or phase – phase measurements
•	12m distance from sensor to meter
•	Exchangeability of sensors between devices with keeping accuracy
•	Works with TE30 and TS33 testers and analysers



Voltage sensor VLW40kVC.1 (LiteWire) allows for easy voltage measurement on **High Voltage** cables and bars in electric installation. Due to special hook, it is easy to assembly it in hard access places. Can measure voltage between phase – ground and phase - phase. The sensor enables measurements on primary side of high voltage installations.

Technical specification

Parameter	Value
Range of voltage	1kV – 40kV AC
Output voltage	50mV / 1kV
Minimum load impedance	≥6kΩ
Accuracy	±2.0%
Frequency range	40Hz to 2.5kHz
Maximum voltage of cable / bar to earth	40kV
Length of fiber optic	12m
Temperature range operation / storage	-30°C to +60°C/-30°C to 60°C
Dimensions of isolated electrode	46cm
Weight	approx. 2.5kg
Battery	2 x 6F22 9V alkaline

Warning!

SAFETY INFORMATION



The LiteWire is designed for use when attached to a suitable universal hot stick. All precautions appropriate for the line voltage should be taken. The sensor unit of the LiteWire is not designed to be a high voltage insulator. The sensor should not bridge between conductors or between a conductor and ground. Be careful not to allow the universal chuck adaptor or the metal parts of the hot stick to bridge between high voltage and ground or between two high voltage points.

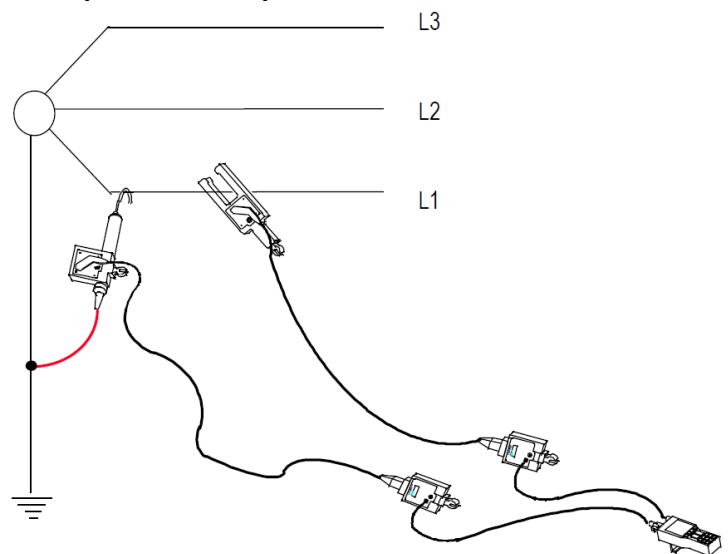
The fiber optic cable is a high voltage insulator and will isolate equipment and personnel in the same manner as a fiber glass hot stick. It should be maintained and tested in the same manner as the hot stick. Cleaning and inspection should be done in the same manner and schedule as hot sticks. Testing should be done in the same manner as hot stick tests. Length of cable between line and operator should follow the same rules as used for hot sticks.

Components description



- 1- Volt Lite Wire transmitter module;
- 2- Fiber optic cable;
- 3- Extension cable;
- 4- Sensor receiver;
- 5- Insulated electrode;
- 6- Universal chuck adaptor for stick;

Example Volt and Amp Lite Wire connection



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