

# OHMSTIK PLUS

LIVE LINE MICRO-OHMMETER

## FEATURES

- Measure micro-ohm resistance on HV conductors
- Measure up to 1400 Amps
- Accurate readings in environments up to 500kV
- Measure and hold up to nine sets of readings



## REDUCE CONNECTOR FAILURE RATES

The Ohmstik Plus takes accurate current and micro-ohm measurements from conductors, connectors, splices, and switching devices when placed directly on the energized asset.

The Ohmstik Plus is used to evaluate line splices, bolted terminals, taps, jumpers, and substation bus bars. Additionally, switches, fused disconnects, and normally open switches that have been open for long periods, may be measured just after closing. These connections can be measured right after installation, or surveyed after years of service.

The instrument is positioned onto the splice or connector so the connection under test is between the two electrodes. In a few seconds both amperage and micro-ohm measurements are taken and displayed on the front panel LCD. The Ohmstik Plus is designed to store up to nine sets of readings. The ability to hold multiple readings ends the need to lower the instrument to eye level after each measurement.

The readings taken provide accurate data for calculating ratios to determine health of the splice or fitting. Resistance is calculated by measuring the AC amperage in the line and the voltage drop between both contacts. The AC current in the line assures realistic current distributions through the connection are being measured. This measurement is more direct than infrared thermography and is not subject to emissivity, weather, current loading, background or other influences that cause infrared errors.

The Ohmstik Plus gives utility engineers data to predict a failure years in advance, allowing for replacement on a planned basis, before failures and line drops occur.



Ohmstik and 12" Probe



Ohmstik on OH Splice

# APPLICATIONS

Measure and evaluate connections on transmission and distribution conductors

Verify resistance on closed switch contacts

Check taps and jumpers for connection reliability

Evaluate aging of connections

## OHMSTIK PLUS SPECIFICATIONS

Model Number	6-082	6-084
Description	Ohmstik Plus Kit	Wide Jaw Ohmstik Plus Kit
Kit Includes	8-082 Ohmstik XT Plus, Carrying Case, Fused & Adjustable probe, Universal Angle Adapter	8-084 WJ Ohmstik, Carrying Case, Fused probe, & Universal Angle Adapter
Sensor Opening	2.5 in, 6.35 cm	3.86 in , 9.8cm
Weight	2.4 lbs, 1.10 kg	4.0 lbs, 1.81 kg
Frequency, 50 Hz	47 to 53 Hz	
Frequency, 60 Hz	57 to 63 Hz	
Measurements	Nine reading sets	
Range of Operation		
Voltage Phase to Phase	90VAC - 500 kV	
True RMS Amps	1-1400 A	
Micro-Ohms	5-2500 $\mu\Omega$	
Resolution		
Amps 0.9-99.9 A	0.1 A	
Amps 100-1400 A	1 A	
Micro-Ohms 1-999	1 $\mu\Omega$	
Micro-Ohms 1000-2500	1.0 $\mu\Omega$	
Accuracy		
Current	$\pm 1\% \pm 1$ A	
Micro-Ohms Absolute	$\pm 2\%$ , $\pm 2$ $\mu\Omega$	
Micro-Ohms Repeatability	$\pm 1\%$ , $\pm 2$ $\mu\Omega$	
	Accuracy is diminished if the current is less than 15 A while on 90VAC-35kV and when current is less than 50 A while on 36-500 kV	
EEC Standards	Successfully passed international test standards indicated by CE	
Mechanical		
Operating Temperature	-22° to +140° F, -30 to +60° C Lithium battery required for temperatures below -4°F (-20°C)	
Display	Graphics Display	
Controls	Single button operation	
Hot Stick Mounting	Universal chuck adapter (Hot stick not included)	
Battery	9V Alkaline or Lithium, one per unit	



Ohmstik XT Plus Kit + Accessories



WJ Ohmstik Plus Kit + Accessories



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