Qualstik PLUS Live-Line Power Quality Meter

Measures amps

Measures leading or lagging power factor

Measures total harmonic distortion (THD)

Measures direction of current flow

High voltage rated 500kV

Samples and holds up to nine sets of readings

Widejaw QualstikPlus

Hotstick Mounted

The Qualstik Plus is an excellent survey instrument for locating problem areas for comprehensive testing. It was developed specifically for the measurement of four important items of power quality in the electric utility industry. This live-line power quality meter stores up to nine sets of power quality readings: Current, leading/lagging Power Factor, Total Harmonic Distortion and the Direction of Current Flow.

The current sensor does not use magnetic materials and has no moving parts. The opening of the sensor is electronically closed and external currents are electronically rejected. The Leading/Lagging True Power Factor is calculated by analyzing the voltage waveform in comparison with the current reported from the amp sensor.

The Qualstik Plus is not position sensitive; just slip it over a conductor and touch the electrode on the bottom of the sensor to the line. The current reading is shown on one side of the display, while the power factor and THD readings share the other side. The direction of current flow indication shows below the other readings on the display.

The user is able to store up to nine sets of readings. The ability to hold multiple sets of reads ends the need to raise and lower the hotstick after each measurement.

The universal hotstick adaptor and internal structure of the Qualstik Plus are made of long glass fiber reinforced thermoplastic polyurethane. This polymer is non-conductive and extra tough to protect the amp sensors. The housing is made of urethane and built to operate safely, even in severe utility environments. It is resistant to shock, water repellent, flame retardant and operates in a wide temperature environment.

The Qualstik Plus is an excellent tool for determining placement of power factor correction devices, survey primary lines for hamonic distortion, as well as identifying other power quality problems.

Distribution engineers use the Qualstik Plus for correctly placing capacitor banks in electric utility systems that maintain integrated, inductive loads. This instrument insures that capacitor banks are placed where they are most efficient.

Applications

Survey primary circuits to determine proper placement of power factor correction devices

Survey primary lines for harmonic distortion

Verify IEEE 519 compliance

Identify the presence of power quality problems

Qualstik PLUS Live-Line Power Quality Meter

Model Number	8-061 XT PLUS	8-062 PLUS
Description	Qualstik PLUS	Wide Jaw Qualstik Plus
Sensor Opening	2.5 in, 6.35 cm	3.86 in , 9.8cm
Weight	3.0 lbs, 1.37 kg	3.5 lbs, 1.58 kg
Frequency, 50 Hz	47 to 53 Hz	
Frequency, 60 Hz	57 to 63 Hz	
Measurements	Nine Readings	
Range of Operation		
True RMS Amps	1-2000 A (5-2000A for the 8-062 PLUS)	
Power Factor	0.01 lag to 0.01 Lead	
THD Amps	1-100%	
Current Flow Direction	Amps in or Amps Out	
Voltage phase to phase	600 Volts to 500kV	
Resolution		
Amps 1-99.9A	0.1 A	
Amps 100-2000A	1 A	
Power Factor	1.0 to .01	
THD Amps 0.1% to 10%	0.1%	
> 10%	1.0%	
Accuracy		
Amps	± 1% ± 2 Counts	
Power Factor	±.01 from .71 lead to .71 lag	
THD Amps	±1% from 0 to 25%	
EEC Standards	Successfully passed international test standards indicated by CE	
Mechanical		
Controls	Single button operation	
Operating Temperature	-22° to +140° F, -30° to +60° C Lithium battery required for temperatures below -4°F (-20°C).	
Display	Graphics LCD	
Housing	Shock & water resistant molded urethane	
Hotstick Mounting	Universal chuck adapter (Hot Stick not included)	
Battery	9V Alkaline or Lithium	

Optional Hard Case
Model 7044

SensorLink® Corporation

1360 Stonegate Way
Ferndale, WA 98248
USA
phone 360.595.1000
fax 360.595.1001
www.sensorlink.com