Voltstik Radio Based Distribution Voltmeters

Safely and accurately measure the primary voltage

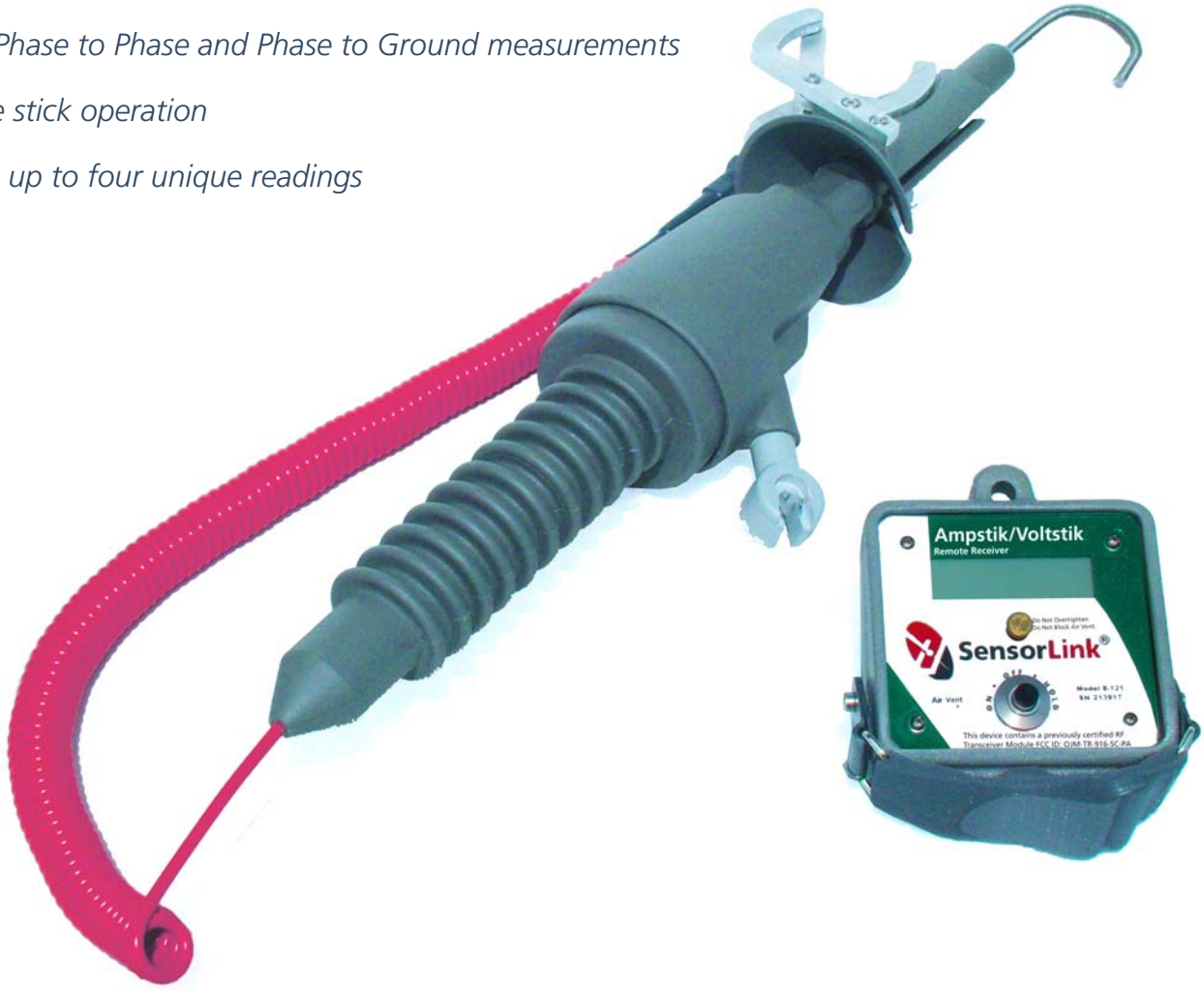
Non-conductive meter case and universal adaptor

Remote display for instant confirmation of the reading

Take Phase to Phase and Phase to Ground measurements

Single stick operation

Holds up to four unique readings



The Voltstik is a distribution voltage voltmeter designed for use on lines and in substations. This meter is employed onto a line by using a hotstick and universal chuck adapter. It is capable of measuring voltage phase to phase, and phase to ground. This high impedance instrument is an excellent choice for solving multiple problems associated with operating a medium voltage system. Its key applications are defined under three groups, safety confirmation of the voltage present, troubleshooting voltage problems, and phasing.

Trouble shooting Voltage Problems
The Voltstik provides the ability for the user to measure the potential of any two points within a medium voltage distribution system. Voltage drop along a line can be measured or a check of phase to ground voltage on the primary side of a voltage complaint can determine if the cause belongs to the utility or the customer.

Phasing
The most common use for measuring voltage in a distribution system is measuring the phase to phase voltage. In the past, this has been performed with a dedicated instrument called a "Phasing Set". The SensorLink Voltstik offers advantages to the traditional methods. The Voltstik has an accuracy rating of ±1% ,while most phasing sets can only read the approximate voltage.

Non-Conductive
The universal hotstick adaptor and internal structure of the Voltstik are made of a long, glass, fiber reinforced, thermoplastic polyurethane called Celstran®. This space-age polymer is non-conductive and extremely strong. The cable used to make the two point connection is rated at 40,000 volts DC, with a breakdown voltage of 80,000 volts DC. The housing is made of urethane and built to operate safely, even in severe utility environments.

The only points on the entire meter that conduct a signal are the two ends. This design is the safest method to make a two-point voltage measurement.

The Remote display gives the user instant confirmation of the reading. The user has the option to hold the display in their hands or mount it to a hotstick.

The display shows the voltage measurement and continues to update the reading three times per second using a non-licensed 900 MHz radio. The display features a five-digit display that shows full scale1-volt resolution. While in the HOLD mode the display will hold up to four readings. This handy display allows the user to keep both eyes and hands on the task of taking the measurement.

Applications

Identifying broken insulators

Measuring voltage drop

Phasing

Troubleshooting distribution circuits

Voltstik

Radio Based Distribution Voltmeters

Kit Model Number	6-133
Type	37kV Voltmeter Kit
	Kit Includes:
	8-133, 37kV Voltmeter
	8-121, Radio Based Remote Display
	Carrying Case
Range of Operation	
Voltage	0-37,000 VAC
Resolution	
Voltage	1 Volt
Accuracy	± 1% ± 2 Volts
Operation	
Frequency	60 Hz (57 to 63 Hz) or 50 Hz (47 to 53 Hz) Models Available
Controls	One button operation
Mechanical	
Weight	5.25 lbs (2.38kg)
Display	5 Digit LCD
Operating Temperature	-22 to +140 degrees F (-30 to +60 degrees C) *
Housing	Shock & water resistant molded urethane
Hotstick mounting	Universal chuck adapter (Hotstick not included)
Battery	2 each 9 volt alkaline or 9 volt lithium
	(*see manual for battery temperature specifications)
Radio	
Frequency	916.48 MHz
Power	.1 milliwatt
Range	50 Feet

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