

# High Voltage Analogue Insulation Testers



**K3121**

## Technical Data

### K3121 • K3122 • K3123

The K3121, K3122 and K3123 are High Voltage Insulation testers that are tough, rugged meters designed and manufactured to read accurate measurements in harsh environments. These models are gasket sealed to prevent ingress of liquids and dust and are supplied with a water resistant, heavy duty case. These Major Tech HV insulation testers are ideal for heavy duty maintenance and servicing of industrial installations, cables, transformers, generators and switchgear. They are supplied with appropriate leads for connecting to the earthed and conducting points of the circuit under test. The rated output voltage is maintained down to 0,1% of the tester's full scale resistance, permitting accurate measurements of even low insulation resistance.



**K3122**

#### Features Include:

- Measures DC Voltage in 2500V (**ONLY K3121**)
- Measures DC Voltage in 5000V (**ONLY K3122**)
- Measures DC Voltage in 5000V and 10000V (**ONLY K3123**)
- Large analogue display
- Colour scale with LED Indication
- Automatic discharge after test
- Low power consumption
- Battery test function
- Guard terminal supplied
- Supplied in a drip proof rubber sealed casing
- Lock down test button for continuous use



**K3123**

#### General Specifications

Operating Temperature and Humidity	: -10°C ~ +40°C at 85% max. relative humidity
Storage Temperature and Humidity	: -20°C ~ +60°C at 90% max. relative humidity
Insulation Resistance	: 1000MΩmax./1000V between electrical circuit and housing case
Withstand Voltage	: 5000V AC for one minute between electrical circuit and housing case
Dimensions	: 200 (L) X 140(W) X 80 (D) mm
Weight	: Approx. 1kg (including batteries and line probe)
Power Source	: 8pcs of 1,5V SUM-3 battery or equivalent
Accessories	: hard carrying case, batteries, test leads (earth and guard leads)



		<b>Model 3121</b>	<b>Model 3122</b>	<b>Model 3123</b>	
<b>DC Test Voltage</b>		2500V	5000V	5000V	10000V
<b>Measuring Ranges</b>		0 ~ 2000M $\Omega$ / 1000 ~ 100000M $\Omega$ (automatic change)	0 ~ 5000M $\Omega$ / 2000 ~ 200000M $\Omega$ (automatic change)	0 ~ 5G $\Omega$ / 2 ~ 200G $\Omega$ (automatic change)	0 ~ 10G $\Omega$ / 42 ~ 400G $\Omega$ (automatic change)
<b>Accuracy</b>	<b>Insulation Resistance</b>	$\pm 5\%$ of reading (100 ~ 50000M $\Omega$ ) $\pm 10\%$ of reading or 0.5% of scale length (ranges other than listed above) at 23°C $\pm$ 5°C $\pm$ 10% of reading (100 ~ 50000M $\Omega$ ) $\pm$ 20% of reading or 1.0% of scale length (ranges other than listed above) at -10°C ~ +40°C	$\pm 5\%$ of reading (200 ~ 100000M $\Omega$ ) $\pm 10\%$ of reading or 0.5% of scale length (ranges other than listed above) at 23°C $\pm$ 5°C $\pm$ 10% of reading (200 ~ 100000M $\Omega$ ) $\pm$ 20% of reading or 1.0% of scale length (ranges other than listed above) at -10°C ~ +40°C	$\pm 5\%$ of reading (0.2 ~ 100G $\Omega$ ) $\pm 10\%$ of reading or 0.5% of scale length (ranges other than listed above) at 23°C $\pm$ 5°C $\pm$ 10% of reading (0.2 ~ 100G $\Omega$ ) $\pm$ 20% of reading or 1.0% of scale length (ranges other than listed above) at -10°C ~ +40°C	$\pm 5\%$ of reading (0.4 ~ 200G $\Omega$ ) $\pm 10\%$ of reading or 0.5% of scale length (ranges other than listed above) at 23°C $\pm$ 5°C $\pm$ 10% of reading (0.4 ~ 200G $\Omega$ ) $\pm$ 20% of reading or 1.0% of scale length (ranges other than listed above) at -10°C ~ +40°C
	<b>Output Voltage</b>	2500V $\pm$ 5% (100 ~ 50000M $\Omega$ )	5000V $\pm$ 5% (200 ~ 100000M $\Omega$ )	5000V $\pm$ 5% (0.2 ~ 100G $\Omega$ )	10000V $\pm$ 5% (0.4 ~ 200G $\Omega$ )