

Analogue Insulation Tester

Technical Data



K3132

The K3132 is a highly compact and easy to use Insulation and Continuity Tester. Designed to have an IP protection rating of IP54 and is ideally suited to more arduous environments. The instrument offers three insulation test ranges: 250V, 500V and 1000V, a 3Ω continuity range and a 500Ω resistance range. This meter is not only equipped with a "Live Circuit Warning" but also displays the actual AC voltage measurements of the mains supply.

Features Include:

- Three test ranges 250V-500V-1000V
- Auto null function
- AC voltage measurements to 600V
- Live circuit warning
- Lock down Test Button for continuous use
- 1mA output current on insulation test
- 200mA short circuit on continuity range

General Specifications

Typical number of measurements

Insulation Resistance Ranges	: 1MΩ at 1000V Range 0,5MΩ at 500V Range 0,25MΩ at 250V Range	Approx, 1 400 times min. Approx, 3 500 times min. Approx, 5 500 times min.
Continuity Test (Resistance Test) Ranges	: 1Ω at 3Ω Range	Approx, 1500 times min.
Applicable Standards	: IEC61010-1 IEC61010-2-31 IEC61557-1/2/4 IEC61326-1 IEC60529 (IP54)	Overvoltage CAT. III 300V Pollution Degree 2 Safety requirements for hand-held probe assemblies Measuring equipment for low voltage distribution systems EMC Dust and drip proof
Operating Temperature and Humidity	: 0 to 40°C, relative humidity up to 85%	
Storage Temperature and Humidity	: -10°C to -50°C, relative humidity up to 75%	
Insulation Resistance	: More than 50MΩ at 1000V DC between electrical circuit and housing case	
Withstand Voltage	: 3700V AC for one minute between electrical circuit and housing case	
Overload Protection		
Insulation Resistance Ranges	: 1000V Range 500V Range 250V Range	1200V (DC+AC p-p) for 10 seconds 600V (DC+AC p-p) for 10 seconds 300V (DC+AC p-p) for 10 seconds
Continuity Ranges	: 3Ω/500Ω Range	280V (DC+AC p-p) for 10 seconds
AC Voltage Warning	: 1200V (DC+AC p-p) for 10 seconds	
Dimensions	: 106(L) X 160(W) X 72(H) mm approx.	
Weight	: 560g approx. (including battery)	
Power source	: 6X1,5V battery type R6P, 1,5V AA or equivalent(s)	
Accessories	: Test probe MODEL 7122 Shoulder Strap Spare fuse F500mA/600V	x1 set x1 x1 Pouch for test probe R6P batteries Instruction manual x1 x6 x1



Measuring Ranges and Accuracy (at 23 ± 5°C, relative humidity 45-75%)

Measurement	Normal Output Voltage	250V	500V	1000V
Insulation Resistance Range	Measuring Ranges	0-100MΩ	0-200MΩ	0-400MΩ
	Open Circuit Voltage	Rated test voltage +20%, -0%		
	Normal Current	1mA DC +20%, -0%		
	Short Circuit Current	About 1,3mA DC		
	Accuracy Guaranteed Range	0,1-10MΩ	0,2-20MΩ	0,4-40MΩ
	Accuracy	± 5% rdg at Accuracy guaranteed ranges ± 0,7% at scale length at ranges other than above ranges		
Measurement	Ranges	3Ω	500Ω	
Continuity Test	Open Circuit Voltage	About 4,1V DC		
	Measuring Current	Greater than 200mA		
	Accuracy	1,5% of scale length at other measuring ranges		
Measurement	Ranges	Measuring ranges to keep operating error	Maximum percentage operating error	
Insulation Resistance Ranges	250V/100MΩ	0,1MΩ - 10MΩ	± 30%	
	500V/200MΩ	0,2MΩ - 20MΩ		
	1000V/400MΩ	0,4MΩ - 40MΩ		
Continuity Test	3Ω	0,2Ω - 3Ω		

AC Voltage Warning	
Warning Range	0 - 600V
Accuracy	± 5% of scale length
Input Impedance	1.2MΩ