Digital Earth Resistance Tester





K4105

The K4105 is a digital ultra-compact earth resistance tester housed in a shock resistant IP54 rated dust and drip proof case. The K4105 has a large, easy to read 3½ digit LCD display and is supplied with a carrying case containing all the equipment needed to perform measurements. There is an automatic warning when resistance of auxiliary earth spikes is in excess of tolerance. 2mA Measuring current permits earth resistance tests without tripping the earth leakage current breakers in the circuit under test.

Features Include:

- · Simplified earth test
- Direct earth resistance to 2000Ω
- Earth voltage to 200V
- · Indicates if Resistance of Auxiliary Spikes is within Tolerance
- Low Power Consumption for Extended Battery Life
- Small and lightweight and supplied in a shock resistant case conforming to IP54
- · Low power consumption for extended battery life
- · Direct readout of the earth resistance on the LCD display

General Specifications

Applicable Standards : IEC 61010-1 Overvoltage CAT III 300V Pollution Degree 2

IEC 61010-2-31 IEC 61557-1,5 IEC 60529 (IP5

Measuring Method

Earth voltage measurement : Average sensing

Earth resistance measurement Constant current inverter

Frequency: Approx. 820Hz

Measuring Current: 20Ω range

Maximum Operating Error : Operating error (B) is an error obtained within the rated operating conditions, and calculated with the intrinsic error (A), which is an error of

Approx. AC 3mA

the instrument used , and the error (Ei) due to variations.

Range to keep the maximum

operating error : Measurement range within which the max operating error(±30%)

applies

 20Ω range 5-19.99Ω 200Ω range $20-199.9\Omega$ 2000Ω range $200-1999\Omega$

Number of Measurement 3300 times or more (measure 10Ω for 5s on 20Ω range and take a

pause for 25s)

Operating Temperature and Humidity Storage Temperature

and Humidity Power Source 0 to 40°C, relative humidity 85% or less (no condensation)

- -20 to 60°C, relative humidity 75% or less (no condensation)

9VDC: R6P (SUM-3) X6

Overload Protection Earth resistance ranges: 280V AC/DC(10 seconds)

: Earth voltage: 300V AC/DC(1minute)

Insulation Resistance 5MΩ or more at 500V between the electrical circuit and the housing

: case

Withstand Voltage 3700V AC for one minute between the electrical circuit and the housing case

Dimensions : 150(L) X 158(W) X 70(D)mm







General Specifications

: K-7095 K-8032 K-7127 Accessories Test leads X1 set Auxiliary earth spikes X2
Simplified measurement probe X1 set (with safety alligator clip and flat test bar)
Carrying case X1 X1 X1 X1 K-9084 Strap belt

Instruction manual Battery R6((SUM-3) X6

Measuring Range and Accuracy (at 23±5°C and RH 75% or less)

Range Earth Voltage		Measuring Range 0 - 199.9V	Accuracy ± 1.0%rdg ± 4dgt
Resistance	Χ10Ω	0 - 199.90Ω	
	Χ100Ω	0 - 1999Ω	(Earth voltage 10V or less)