

CLAMP-ON TYPE EARTH RESISTANCE TESTER

Model KM 1620 / KM 1720

KM-1620 / KM 1720 single-jaw type Earth Resistance Tester is widely used for earth resistance testing of the equipments in the field of power, telecommunication, as well as the other electrical equipments. It features easy operation, high-accuracy and good adaptation of testing environment.



Carrying Case

APPLICATION :

1. Earthing of electric power and distribution system.
2. Telecom system earthing.
3. Earthing of lightning rod and oil tanks.
4. CAT III network earthing.
5. Earthing of multi-storied building and warehouse etc.
6. Earth Pit Resistance.

FUNCTIONS AND FEATURES:

- Beyond the limitation of the traditional method of earth resistance testing, no assistance poles are required, with easy and convenient operation.
- No error of electrodes arranging, which results in good consistency under the condition of earth resistance testing.
- Equipped with standard testing coil which can be used to do the self-testing with accuracy.
- With a compact & sturdy structure, it can operate under the condition of harsh-environment.
- Intelligent and automatic measurement, which can guarantee the safety of operation.
- High-Low limits settable for Resistance & Current.
- Hold Key for lock / release display (KM 1620)
- Mode Key - Switch key of function mode (Resistance measurement / Current measurement / data access). (KM 1720)
- Set Key - Function key combinations. (KM 1720)

GENERAL SPECIFICATIONS :

- **Jaw Opening Size** : 32 mm
- **Display screen** : 4 digit LCD Backlight, 47 x 28.5 mm in length
- **Operating temperature** : -10°C ~ 55°C
- **Operating Humidity** : 10% ~ 90%RH
- **Protection grade** : double insulation
- **External Magnetic Field** : < 40A / m
- **External Electric Field** : < 1V/m
- **Measurement Resistance Frequency** : > 1 KHz
- **Maximum Resistance Measurement Resolution** : 0.001Ω
- **Resistance Measurement Range** : 0.01 - 1000 Ω
- **Range selection** : Automatic
- **Max. Bus Bar Dimension** : 32 mm x 65 mm.
- **Calibration** : Automatic self calibration
- **Sampling Time** : 1 second
- **Current Measuring Range** : 0.00 - 20.0A (KM 1720)
- **Measured Current Frequency** : 50/60Hz (KM 1720)
- **Storable Measurement Data** : 99 Units (KM 1720)
- **Setting Range of Resistance Alarm Critical Value** : 1 - 199Ω (KM 1720)
- **Setting Range of Current Alarm Critical Value** : 1 - 499mA (KM 1720)
- **Power supply** : 4 X AAA alkaline dry battery (6V)
- **Weight** : 1160g (inclusive of battery)
- **Dimension** : 285(L) x 85(W)mm, and thickness of 56mm

SAFETY :

EMC Directive 2004/108/EC for CE marking
Emission : EN 61326-1:2006 Class B;
 EN 55011:2009/A1:2010 Group 1 Class B
Immunity : EN 61326-1:2006; EN61000-4-2:2009;
 EN 61000-4-3:2006/A2:2010

ACCESSORIES :

Standard Testing Coil (5.1Ω),
 Strong Carrying Case,
 Batteries & User Manual.

ELECTRICAL SPECIFICATIONS : KM 1620 / KM 1720

Accuracy : ±% reading ± digits
 Environment to guarantee accuracy : 23°C ± 5°C, less than 75% RH

CURRENT RANGE MEASUREMENT (KM 1720)

Measurement Range (A)	Resolution (A)	Accuracy (A)
0.00-99.9mA	1mA	±(2.5% + 5mA)
100 - 299mA	1mA	±(2.5%+10mA)
0.30 - 2.99A	10mA	±(2.5%+0.1A)
3.00 - 9.99A	10mA	±(2.5%+0.2A)
10.00 - 20.00A	10mA	±(2.5%+0.3A)

RESISTANCE

Measurement Range (Ω)	Resolution (Ω)	Accuracy (Ω)
0.010~ 0.099	0.001	±(1% + 0.01Ω)
0.10~ 0.99	0.01	±(1% + 0.01Ω)
1.0 ~ 49.9	0.1	±(1% + 0.1Ω)
50.0 ~ 99.5	0.5	±(1.5% + 0.5Ω)
100 ~ 199	1	±(2% + 1Ω)
200 ~ 395	5	±(5% + 5Ω)
400 ~ 590	10	±(10% + 10Ω)
600 ~ 1000	20	±(20% + 20Ω)

All Specifications are subject to change without prior notice