KUSAM-MECO®
An ISO 9001:2015 Company

DIGITAL INSULATION RESISTANCE TESTER WITH PI & DAR MEASUREMENT MODEL - KM 372

THINK SAFETY
THINK KUSAM-MECO®

APPLICATIONS :

The product is applicable to measurement of the insulating resistance of various insulating materials and electric equipments such as transformers, motors, cables, switches, and electric apparatuses. It is also applicable to maintenance, test, and inspection of various electric equipments. It is compact in structure, convenient to carry, and an ideal electrical and electronic testing meter of yours.

CAT IV 600V

NEW

True RMS



Preliminary Data

FEATURES :

- KM 372 Digital Insulating Resistance Tester + Digital Multi-meter.
- Insulation test voltage can be switched among 50V/100V/ 250V/500V/1000V.
- The display shows actual measurement voltage that is output by the meter, effectively avoiding misjudgment caused due to output voltage not conforming to the rated value.
- Auto Data Hold Function.
- The measurement time can be set up according to requirements.
- Auto discharge function.

GENERAL SPECIFICATIONS :

- **Display mode :** 3¾ Digit 4000 Counts Dual Display in Insulation Resistance Ranges.
  3-5/6 Digit 6000 Counts LCD display in Multimeter ranges.
- **Sampling rate :** 2 times per second
- **The meter can display actual insulation test voltage. LED light is used to indicate high voltage output status.**
- **Overload Indication :** "OL"
- **Operating Temperature :** 0°C ~ 50°C, less than 75%RH
- **Storage Temperature :** -10°C ~ 60°C, less then 80%RH
- **Indication for insufficient battery capacity : " ▭ " is displayed**
- **Power supply :** 2 x 14500 - 3.7V Li-ion battery
- **Auto power off :** 15 minutes after it is turned on if no key is pressed or the knob is not turned. Long press HOLD to disable sleep mode.
- **Dimension :** Approx. 189 (L) × 89 (W) × 55 (H) mm
- **Weight :** Approx. 380g (including the battery)

- **SAFETY :**
  IEC 61010 CAT IV 600V

- **ACCESSORIES :**
  Test Leads-3pcs, User Manual, Rechargeable Battery, Battery Charger, Crocodile Clips-3pcs & Carrying Case.



All Specifications are subject to change without prior notice.

ELECTRICAL SPECIFICATIONS : KM 372

Accuracy is ± (% reading digits + number of digits) or otherwise specified, at 23°C ± 5°C; <75% R.H.

INSULATION RESISTANCE TESTER :

RATED MEASUREMENT VOLTAGE

Rated Voltage	Measurement Range	Accuracy
50 V	0.05MΩ ~ 1GΩ	± (5% + 5)
100 V	0.1MΩ ~ 2GΩ	± (5% + 5)
250 V	0.25MΩ ~ 5GΩ	0.25Ω~399.9MΩ: ±(3%+5) 0.4G~2GΩ: ±(5%+5) 2.001G~20GΩ: ±(10%+5)
500 V	0.5MΩ ~ 10GΩ	
1000 V	1MΩ ~ 20GΩ	

DISPLAY RANGE

Rated Voltage	Range (Auto Range)	Resolution
50 V	4M/40M/400M/1GΩ	0.001MΩ~0.001GΩ
100 V	4M/40M/400M/2GΩ	0.001MΩ~0.001GΩ
250 V	4M/40M/400M/4G/5GΩ	0.001MΩ~0.01GΩ
500 V	4M/40M/400M/4G/10GΩ	0.001MΩ~0.01GΩ
1000 V	4M/40M/400M/4G/20GΩ	0.001MΩ~0.01GΩ

CHARACTERISTICS OF THE MEASUREMENT TERMINAL

Rated Voltage	Drop Resistance	Buzzer Alarm
50 V	0.05MΩ	≤ 0.3MΩ
100 V	0.1MΩ	≤ 0.6MΩ
250 V	0.25MΩ	≤ 1MΩ
500 V	0.5MΩ	≤ 2MΩ
1000 V	1MΩ	≤ 4MΩ

Open Circuit Voltage : 90% ~ 110%

Short Circuit Current : ≥ 1mA

DIGITAL MULTIMETER FUNCTIONS :

DC VOLTAGE

Range	Resolution	Accuracy
6 V	0.001 V	±(0.5%rdg+5dgts)
600 V	0.1 V	

Input impedance: 10MΩ

Maximum input voltage: 600V.

AC VOLTAGE

Range	Resolution	Accuracy
6 V	0.001 V	±(0.8%rdg+5dgts)
600 V	0.1 V	

Frequency range: 40Hz~1kHz

Input impedance: 10MΩ

Maximum input voltage: 600V.

Display: True-RMS (Sine wave virtual value calibration)

CAPACITANCE

Range	Resolution	Accuracy
10 nF	0.001 nF	±(3%rdg+20dgts)
100 nF	0.01 nF	±(3%rdg+5dgts)
1 mF	0.1 µF	±(3%rdg+5dgts)
10 mF	0.001 mF	±(8%rdg+10dgts)
100 mF	0.01 mF	±(8%rdg+10dgts)

Overload protection: 250V RMS

RESISTANCE

Range	Resolution	Accuracy
600 Ω	0.1 Ω	±(0.8%rdg+5dgts)
600 kΩ	0.1 kΩ	±(0.8%rdg+5dgts)
6 MΩ	0.001 MΩ	±(1%rdg+3dgts)
60 MΩ	0.01 MΩ	±(2%rdg+3dgts)

Overload protection: 250V RMS

CONTINUITY TEST

When the ON resistance is less than approx.50, the buzzer in the meter buzzes.

Test Condition:open circuit voltage of approx.1V

DIODE TEST

Display approximate forward voltage value of the diode.

Test Condition : Forward DC current of Approx. 0.5mA, reverse DC Voltage of Approx. 3.2V.

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