KUSAM-MECO®
An ISO 9001:2015 Company

1500V AC/DC DIGITAL TRMS INSULATION RESISTANCE TESTER WITH PI & DAR MEASUREMENT MODEL - KM 375

THINK SAFETY
THINK KUSAM-MECO®

CAT III 1000V
CAT IV 600V

NEW

INTRODUCTION:

This is a real digital insulation resistance tester + digital multi-meter. It has features of complete functions, high accuracy, reliability in operation, and convenience in use. Output test voltage can be switched among 100V/ 250V/ 500V/1000V/2500V. It can monitor the output high voltage in a real-time way. At any time, the user can observe actual measurement voltage that is output by the meter, effectively avoiding misjudgment caused due to output voltage not conforming to the rated value. The measurement range of the meter can reach up to 50GΩ. The measurement time can be set up according to requirements. After a measurement is completed, the measured result can be kept automatically. Functions of the digital multimeter include AC / DC voltage, resistance, capacitance, frequency, diode, and ON / OFF measurement.



Preliminary Data

GENERAL SPECIFICATIONS :

- **DC Voltage range is 1500V for Solar Applications.**
- **Display mode :** 3¾ Digit 3999 Counts Dual Display in Insulation resistance Ranges.
  3-5/6 Digit 5999 Counts LCD Display in Multimeter Ranges.
- **Sensing :** True RMS Sensing
- **Backlight :** LCD White Backlight Display
- **Sampling rate :** 2 times per second
- **The meter can display actual insulation test voltage. LED light is used to indicate high voltage output status.**
- **Auto range :** "OL" will be displayed for overload in multi-meter.
- **Operating Temperature :** 0°C ~ 40°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 wake up in sleep mode.
- **Auto discharge function.**
- **Dimension :** Approx. 189 (L) × 89 (W) × 55 (H) mm
- **Weight :** Approx. 380g (including the battery)

- **SAFETY :**
  IEC 61010 CAT III 1000V

- **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 375

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
100 V	0.1MΩ ~ 2GΩ	± (5% + 5)
250 V	0.25MΩ ~ 5GΩ	0.25M~399.9MΩ:±(3%+5) 0.4G~2GΩ: ± (5%+5) 2.001G~50GΩ: ±(10%+5)
500 V	0.5MΩ ~ 10GΩ	
1000 V	1MΩ ~ 20GΩ	
2500 V	2.5MΩ ~ 50GΩ	

DISPLAY RANGE

Rated Voltage	Range (Auto Range)	Resolution
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
2500 V	40M/400M/4G/40G/50GΩ	0.01MΩ~0.1GΩ

CHARACTERISTICS OF THE MEASUREMENT TERMINAL

Rated Voltage	Drop Resistance	Buzzer Alarm
100 V	0.1MΩ	≤ 0.6MΩ
250 V	0.25MΩ	≤ 1MΩ
500 V	0.5MΩ	≤ 2MΩ
1000 V	1MΩ	≤ 4MΩ
2500 V	2.5MΩ	≤ 10MΩ

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	
1500 V	1 V	±(1%rdg+5dgts)

Input impedance: 10MΩ

Maximum input voltage: 600V.

AC VOLTAGE

Range	Resolution	Accuracy
6 V	0.001 V	±(1.2%rdg+5dgts)
600 V	0.1 V	
1500 V	1 V	±(2%rdg+5dgts)

Frequency range: 40Hz~1kHz **Input impedance:** 10MΩ

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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