KUSAM-MECO®

An ISO 9001:2015 Company

3¾ DIGIT DIGITAL INSULATION RESISTANCE TESTER WITH MULTIMETER FUNCTIONS

THINK SAFETY
THINK KUSAM-MECO®

12 FUNCTIONS 35 RANGES

MODEL KM 370 / KM379



KM 370



500/1000/2500V

KM 379



250/500/1000V

SPECIAL FEATURES :

- Digital MW Hitester & Digital multimeter.
- Overlod Protection
- The meter can display actual insulation test voltage. LED light is used to indicate high voltage output status
- Measures Insulation Resistance & AC & DC Voltage
- Backlight , function characters indication
- Auto power off
- Low battery indication

GENERAL SPECIFICATIONS :

- ✶ **Basic Accuracy :** ±(0.5%rdg + 5dgts)
- ✶ **Display :** 3¾ digit Max. 3999 Counts liquid crystal display
- ✶ **Sampling Rate :** 2 times per second
- ✶ **Short Circuit :** 1.5mA
- ✶ **Measurement time :** ½/10min
- ✶ **Auto range :** "OL" will be displayed for overload
- ✶ **Operating Temperature :** 0°C-40°C, < 75%R.H.
- ✶ **Storage Temperature :** -10°C-60°C, < 80%R.H.
- ✶ **Maximum Power Consumption :** 4.5W
- ✶ **Minimum Power Consumption :** 18mW
- ✶ **Power :** AA 1.5V battery x 6
- ✶ **Dimension :** 170(L) x 156(W) x 64(H)mm
- ✶ **Weight :** Approx. 650g. Including battery.

ACCESSORIES : Test leads, Carrying Case, User's Manual & Batteries.

INSULATION RESISTANCE TESTER

MEASUREMENT VOLTAGE

Rated Voltage	Measurement Range	Accuracy
250 V	0.25MW~ 400MW	0.2MW-200MW: ±3%rdg ± 5, 200MW-4GW: ±5%rdg ± 5, 4GW-40GW: ±10%rdg ± 5
500 V	0.5MW~ 4GW	
1000 V	1.5MW~ 40GW	
2500 V	5MW~ 40GW	

DISPLAY RANGE

Rated Voltage	Display Range (Autorange)	Resolution
250 V	4M/40M/400MW	1k/10k/100kW
500 V	4M/40M/400M/4GW	1k/10k/100k/1MW
1000 V	40M/400M/4G/40G	10k/100k/1M/10MW
2500 V	40M/400M/4G/40GW	10k/100k/1M/10MW

MEASUREMENT TERMINAL

Rated Voltage	Allowed range of open circuit voltage	The measurement resistance value that can maintain lower limit of the rated voltage	Short Circuit Current
250 V	90% - 110% of the rated voltage	250KW (ERR is displayed when it is less than 200KW)	Not less than 1.5mA
500V		500KW (ERR is displayed when it is less than 400KW)	
1000V		1.5MW (ERR is displayed when it is less than 1MW)	
2500V		5MW (ERR is displayed when it is less than 2MW)	

ELECTRICAL SPECIFICATIONS- KM 370/KM379

Accuracy : ±% reading ± digits

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

DIGITAL MULTIMETER

AC CURRENT

Range	Resolution	Accuracy
40 mA	10 mA	±(1%rdg + 5dgts)
400 mA	100 mA	

Overload protection : 0.5A/250V fuse.

DC CURRENT

Range	Resolution	Accuracy
40 mA	10 mA	±(0.8%rdg + 5dgts)
400 mA	100 mA	

Overload protection : 0.5A/250V fuse.

AC VOLTAGE

Range	Resolution	Accuracy
4 V	100 mV	±(0.8%rdg + 5dgts)
40 V	10 mV	
400 V	100 mV	
700 V	1 V	±(1%rdg + 5dgts)

Frequency range: 40Hz~400Hz (400V & 700V range is 40 Hz~100Hz.
Maximum input Voltage : DC or AC peak value 1000V.
Display : Average (Sine wave virtual value calibration)

DC VOLTAGE

Range	Resolution	Accuracy
400 mV	100 mV	±(0.5%rdg + 5dgts)
4 V	1 mV	
40 V	10 mV	
400 V	100 mV	
1000 V	1 V	±(0.8%rdg + 5dgts)

Input Impedance : 400mV >1000MW, 10MW for other range.
Maximum input Voltage : DC or AC peak value 1000V.

CAPACITANCE

Range	Resolution	Accuracy
40 nF	10 pF	±(3%rdg + 5dgts)
400 nF	100 pF	
4 mF	1 nF	
40 mF	10 nF	

Overload protection : 250V rms

RESISTANCE

Range	Resolution	Accuracy
400 W	0.1 W	±(0.8%rdg + 5dgts)
4 kW	1 W	
40 kW	10 W	
400 kW	100 W	
4 MW	1 kW	±(1%rdg + 3dgts)
40 MW	10 kW	±(2%rdg + 3dgts)

Overload protection : 250V rms

FORWARD VOLTAGE OF THE DIODE

Display approximate forward voltage value of diode.
Test condition: Forward DC current of approx. 0.5mA, reverse DC voltage of approx. 1.5V

CONTINUITY TEST

When the ON resistance is less than 50±20W, the buzzer in the meter buzzes.
Test condition : open circuit voltage of approx. 0.5V

FREQUENCY

Range	Resolution	Accuracy
40 Hz	0.01 Hz	±(0.5%rdg + 3dgts)
400 Hz	0.1 Hz	
4 kHz	1 Hz	
40 kHz	10 Hz	
400 kHz	100 Hz	
4 MHz	1 kHz	

Overload protection : 250V rms
Input sensitivity : 2V rms
Note : If the frequency amplitude under test is larger than 50V, please press "SELECT" key of ACV function to enter frequency function, & then make the measurement.

All Specifications are subject to change without prior notice

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