ANALOG INSULATION RESISTANCE TESTER

An ISO 9001:2008 Company

KUSAM-MECO

APPLICATIONS :

- Insulation Test for general equipment & electronic components.
- Test for a high power equipment (e.g. high power apparatuses for cable & communications apparatuses)
- Insulation Test for power equipment.

FEATURES :

- Battery Operation
- Logarithmic Scale.
- Anti-parallax mirror scale for accurate readings.
- Power ON / OFF switch Lock for continuous measurement.
- Battery condition indication.
- Sturdy ABS case
- High Voltage (Output) LED Indicator
- Operating Temperature : 0°C-40°C, < 75%R.H.
- Storage Temperature : -10°C-60°C, < 80%R.H.
- Power ON/OFF Switch for continuous measurement
- AC Voltage measurement facility to check for live circuits.
- AC Voltage measurement Accuracy within ±5% of max. Scale value.
- Terminal- to- Terminal Voltage ± 10% of rated Voltage at "0" Megaohms scale.
 About 90% of rated Voltage at Center scale.
- Insulation Resistance Accuracy ± 5% indicated value
- Power Supply :Standard 1.5V x 4 batteries.
- Dimensions : 100 X 150 X 45 mm. Appx.
- Weight : 350 gms. Approx

ACCESSORIES :

Test Lead with probe x 1, test lead with clip x 1, Batteries, Carrying Case & User Manual.

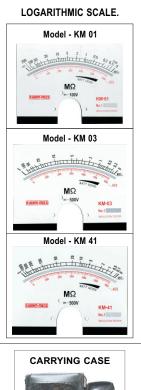
ELECTRICAL SPECIFICATIONS - KM 01/03/41/81

 $\label{eq:accuracy} \begin{array}{l} \mbox{Accuracy}: \pm\% \mbox{ reading } \pm \mbox{ digits} \\ \mbox{Environment to guarantee } \mbox{accuracy}: 23^{\circ}\mbox{C} \pm 5^{\circ}\mbox{C}, \mbox{ less than 75\% RH} \end{array}$

MODEL NO.	RATED OUTPUT V (DC)	SCALE RANGE	ACV RANGE
KM - 01	100 V	0-50 M	0-600 V
KM - 03	500 V	0-100 M	0-600 V
KM - 41	500 V	0 - 1000 M	0-600 V
KM - 81	1000 V	0-2000 M	0-600 V

Model KM-01/03/41/81



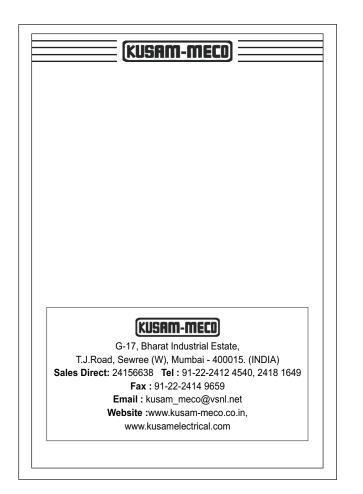


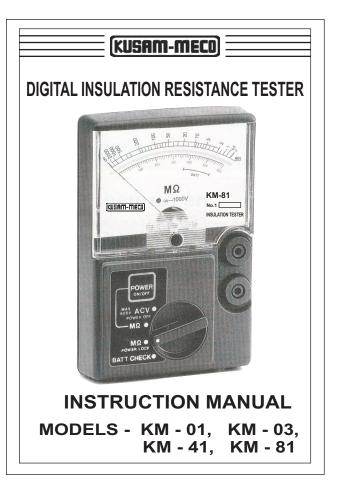


All Specifications are subject to change without prior notice



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KM - 81 KM - 41 KM - 03 KM - 01

DIGITAL INSULATION RESISTANCE TESTER

INSTRUCTION MANUAL

BATTERY - DRIVEN INSULATION RESISTANCE TSTERS

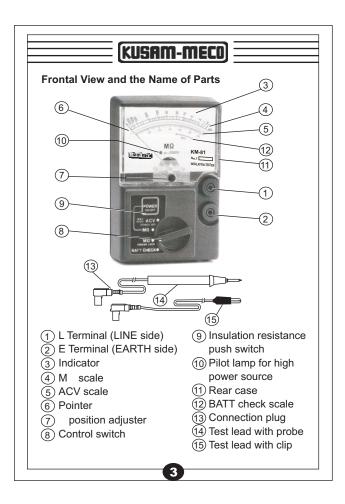
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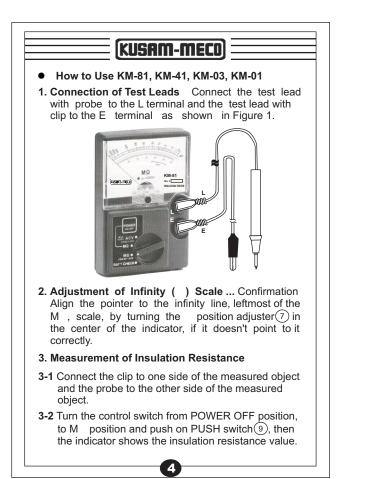
Introduction

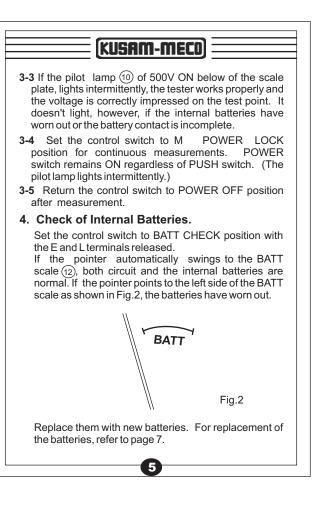
Thank you very much for purchasing this insulation resistance tester. This is a small, easy-to-operate insulation resistance tester using a transistor-type, stable voltage type DC-DC converter. It enables the user to read promptly and directly the insulation resistance value of various electric equipment and lines.

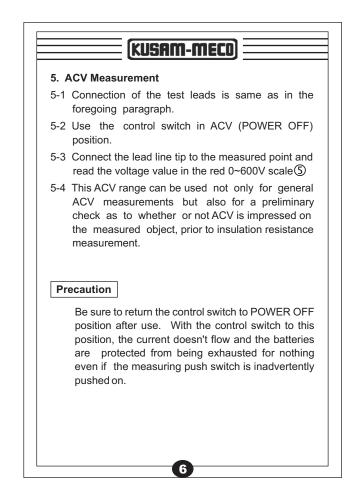
- 1. A small, light-weight and easy-to operate product.
- 2. Used is a core-magnet type meter which is stable and little influenced by external magnetic field.
- 3. It is economical since only four SUM-3 or R6 batteries can drive the tester.
- 4. Incorporating the ACV range, it can measure the voltage of AC line.
- 5. The measuring switch can be locked, so it is very handy to make continuous measurements.
- 6. It incorporates an LED pilot lamp showing ON of high voltage power sources (500V) and lighting intermittently, so the user can know precisely whether or not any voltage exists. It also helps the user avoid forgetting to turn off the switch when it is locked.

Specifications	210			
Model No.	Rated V Rated R	Scale range	ACV	Usage
KM-81	1000V 2000M	0-2000M	V009-0	General insulation tests. Tests for a high power equipment (e.g. high power apparatuses for cable and communications apparatuses)
KM-41	500V 1000M	0-1000M	V009-0	Insulation tests for general equipment and electronic components
KM-03	500V 100M	0-100M	0-600V	Insulation tests for general equipment, chiefly power equipment.
KM-01	100V 50M	0-50M	0-600V	Insulation tests for general equipment.
Power source Accuracy		Standard (1.5v) X 4 batteries. Within ±5% of the scale length	 4 batterie scale len 	ح
lerminal-to-terminal voltage		±10% of rated voltage About 90% of rated voltage	itage	scale
ACV Size & Weight		Vvitnin ±5% of max. scale value 150 X 100 X 45mm, About 350 g	ax. scale v nm, About	alue 350 q
Accessories		Test lead with pi	robe X1 1	Test lead with probe X1 Test lead with clip X1 carrying case





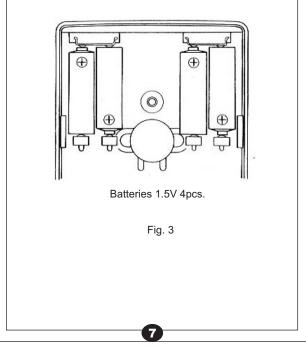




• Replacement of Battery

When replacing battery, loosen the 4 X 15 screw on the rear case, remove the case, and insert the new batteries correctly with the right polarity as shown in Fig.3.

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• Precaution for Use

1. E and L Terminals

When the minus side of the measured object is grounded, plug the test lead into the E terminal. Make measurement with the E terminal test lead connected to the ground side. By so doing it is common that the measured value is indicated at a smaller value. Safety in use is considered and promised. For general measurements, use either polarity of the terminals.

- 2. If the tester is not used for a long time, be sure to take out the internal batteries.
- 3. Don't store the tester in a high temperature and humidity.
- **4.** Avoid giving any mechanical shock or vibration to the tester.
- Don't rub strongly the surface of the indicator cover with a dry cloth. Should anti-static coating on the cover be removed, a cloth moistened with anti-static solvent should be used to clean the cover.

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TEST CERTIFICATE

DIGITAL INSULATION RESISTANCE TESTER

This Test Certificate warrantees that the product has been inspected and tested in accordance with the published specifications.

The instrument has been calibrated by using equipment which has already been calibrated to standards traceable to national standards.

MODEL NO.	
SERIAL NO.	
DATE:	
ISO 9001 REGISTERED	QC KUSAM-MECO PASS
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WARRANTY

Each "KUSAM-MECO" product is warranted to be free from defects in material and workmanship under normal use & service. The warranty period is one year (12 months) and begins from the date of despatch of goods. In case any defect occurs in functioning of the instrument, under proper use, within the warranty period, the same will be rectified by us free of charges, provided the to and fro freight charges are borne by you.

This warranty extends only to the original buyer or enduser customer of a "KUSAM-MECO" authorized dealer.

This warranty does not apply for damaged Ic's, burnt PCB's, fuses, disposable batteries, carrying case, test leads, or to any product which in "KUSAM-MECO's" opinion, has been misused, altered, neglected, contaminated or damaged by accident or abnormal conditions of operation or handling.

"KUSAM-MECO" authorized dealer shall extend this warranty on new and unused products to end-user customers only but have no authority to extend a greater or different warranty on behalf of "KUSAM-MECO".

"KUSAM-MECO's" warranty obligation is limited, at option, free of charge repair, or replacement of a defective product which is returned to a "KUSAM-MECO" authorized service center within the warranty period.

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THIS WARRANTY IS BUYER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. "KUSAM-MECO" SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE WHATSOEVER. All transaction are subject to Mumbai Jurisdiction.

Service Centre:

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