KUSAM-MECO®
An ISO 9001:2015 Company

15KV HIGH VOLTAGE INSULATION RESISTANCE TESTER

MODEL - KM 7015IN

THINK SAFETY
THINK KUSAM-MECO®

FEATURES :

IP66

CAT IV 600V



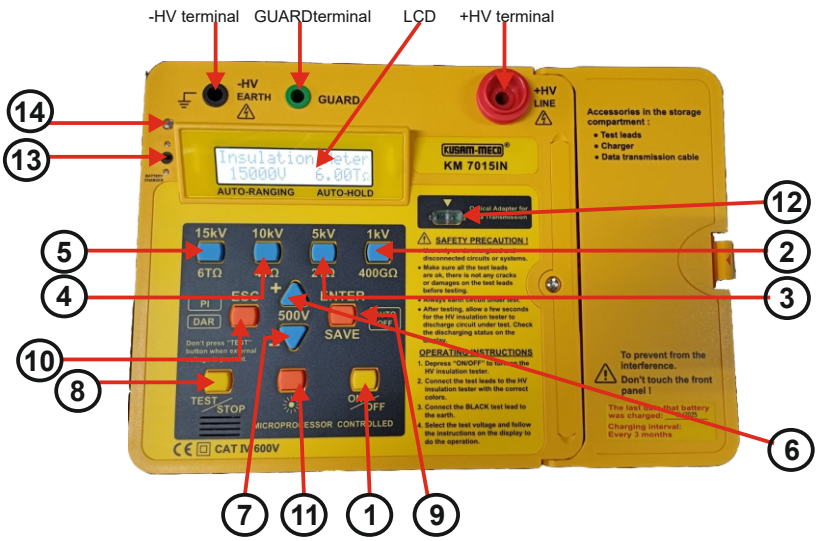
Preliminary Data

- Protection class: IP66 (Lid closed)
- Test insulation resistance up to 6TΩ (6000GΩ).
- Short-circuit current up to 5mA
- Microprocessor controlled.
- 30 insulation test voltages :
  500V, 1kV, 1.5kV, 2kV, 2.5kV, 3kV, 3.5kV, 4kV, 4.5kV, 5kV, 5.5kV, 6kV, 6.5kV, 7kV, 7.5kV, 8kV, 8.5kV, 9kV, 9.5kV, 10kV, 10.5kV, 11kV, 11.5kV, 12kV, 12.5kV, 13kV, 13.5kV, 14kV, 14.5kV, 15kV.
- AC/DC voltmeter (600V).
- PI (Polarization Index) indication.
- DAR (Dielectric Absorption ratio) indication.
- Auto-ranging on all insulation ranges.
- Backlight function.
- Menu driven.
- Visual and audible warning if external voltage is present. (≥30Vac or ≥30Vdc)
- Auto-hold function to freeze the reading.
- Overload protection.
- Adjustment for testing time (duration) : 1~30 minutes
- Auto-off.
- Calendar.
- Optical USB to RS-232 data transmission.
- 200 measurement results can be saved in the memory and recalled on the display.
- Safety standard : IEN EN 61010-1 CAT IV 600V EN 61010-2-030 EN 61326-1

APPLICATIONS :

For testing the insulation resistance of cables, motors, generators, transformers, insulators, high-pressure switches, wiring installations.....etc.

INSTRUMENT LAYOUT

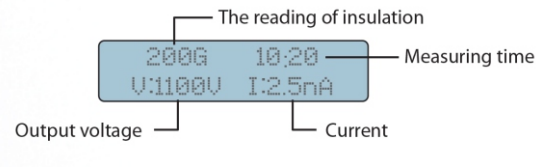


1. Power ON/OFF button
2. Insulation resistance test at to the selected test voltage 1kV button
3. Insulation resistance test at
4. Insulation resistance test at
5. Insulation resistance test at
6. To add (+500V) button to the selected test voltage
7. To subtract (-500V) button
8. TEST/STOP button
9. ENTER & SAVE button 5kV button
10. ESC button
11. BACKLIT button 10kV button
12. CA-232 connection socket
13. Battery-charge socket 15kV button
14. Charge indicator

All Specifications are subject to change without prior notice.

DISPLAY

2 Lines x 16 characters, large intelligent LCD module.



Lower insulation resistance tested takes longer test time, which would deteriorate the specimen. Thus, higher DAR or PI (as close to 1) would create better insulation grade of specimen.

SPECIAL FUNCTIONS

VOLTMETER

When testing insulation resistance while there is a presence of voltage (whether ACV or DCV) on the measured object, conventional insulation testers are highly susceptible to damage. With this new line of insulation testers, it has the ability to switch to voltage detection mode without damaging the instrument once it detects the presence of voltage. It will also display the voltage finding on the LCD screen. With this new and unique function, it will allow the user to safely rule out the possibility of any presence of voltage on the measured object prior to measuring its insulation.

DAR = Dielectric Absorption Ratio

The dielectric absorption ratio is the ratio of the insulation resistance measured at 1 min divided per the insulation resistance measured at 30 seconds. 30 seconds after starting a test, the tester will beep, indicating the operator that the resistance value measured at 30 seconds now has been saved internally. 1 minute after starting a test, the tester will beep again, indicating the user that the DAR result is now computed, and change the display format to now display the DAR result.

$$\text{DAR} : \frac{\text{1-min Insulation Resistance}}{\text{30-sec Insulation Resistance}}$$

PI = Polarization Index

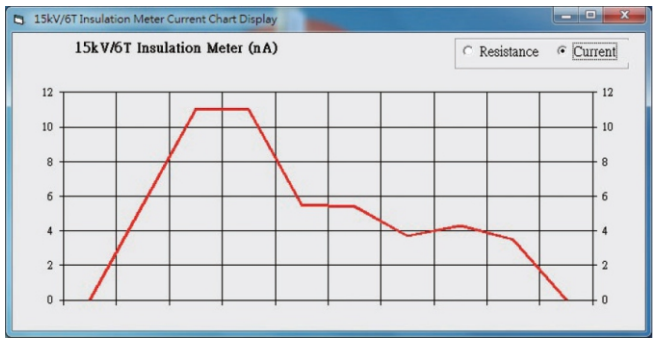
The polarization Index or PI is the ratio of the insulation resistance measured at 10 minutes divided per the insulation resistance measured at 1 minute.

10 minutes after starting a test, the tester will beep again, indicating the user that the PI result is now computed, & change the display format to now display the PI result.

$$\text{PI} : \frac{\text{10-min Insulation Resistance}}{\text{1-min Insulation Resistance}}$$

DATA COMMUNICATION FUNCTION

- Downloading saved data to a PC
- Transferring & showing real-time data to a PC.
- 200 measurement results can be saved in the memory & recalled on the display.



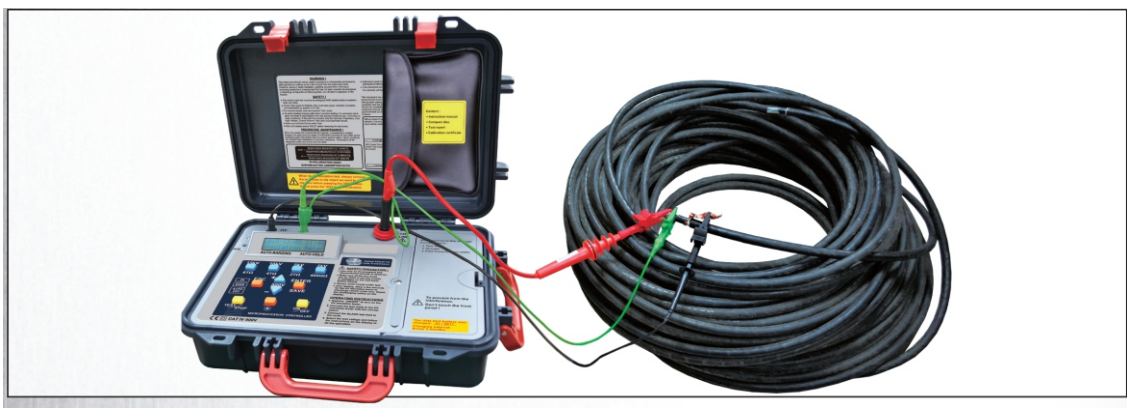


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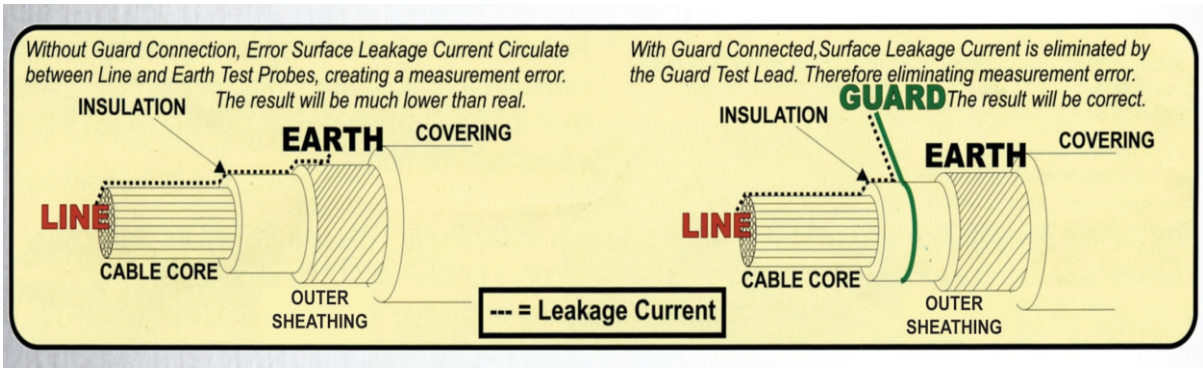
ELECTRICAL SPECIFICATIONS : KM 7015IN

Test Voltage	**From 500Vdc to 15kvdc Adjustable in 500V steps**	
preset buttons	**1kv, 5kv, 10kv, 15kv**	
Insulation resistance	**200GΩ / 0.5kv 200GΩ at 0.5kv ~ 6TΩ at 15kv**	
Accuracy	**1KV : 0 ~ 400GΩ 5KV : 0 ~ 1TΩ** **10KV : 0 ~ 1TΩ 15KV : 0 ~ 1TΩ**	±(5%rdg + 5dgts)
	5KV : 1TΩ ~ 2TΩ 10KV : 1TΩ ~ 4TΩ **15KV : 1TΩ ~ 6TΩ**	±15%
Resolution	**1GΩ : 0.001GΩ 10GΩ : 0.01GΩ** **100GΩ : 0.1GΩ 1TΩ : 1GΩ** **6TΩ : 10GΩ**	
Short Circuit Current	**upto 5mA**	
PI (Polarization Index)	**YES**	
DAR (Dielectric Absorption Ratio)	**YES**	
Voltmeter	**ACV : 30 ~ 600V (50 60Hz)** **DCV : 30 ~ 600V** **Accuracy : ±(2.0%rdg + 3dgts)** **Resolution : 1V**	
Current measurement	**0.5nA ~ 0.55mA (Depending on the insulation resistance)**	
Power Supply	**Rechargeable battery**	
Adapter	**Input : 100 - 240Vac, 0.4A, 50-60Hz** **Output : 24Vdc, 0.62A**	
Dimension	**430 (L) x 324(W) x 127(D)mm**	
Weight	**Approx. 6.56kg**	
Accessories	**Manual, Test leads, USB cable, Software CD, Alligator clips & charger**	

MEASURE THE INSULATION OF CABLE



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ACCESSORIES



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Shop no.18, 1st Floor, CIDCO Shopping Complex, Plot # 9, Sector-7, Rajiv Gandhi Marg, Sanpada, Navi Mumbai - 400705. **Sales Direct :** +91-9867488006, 9867675093
Email : sales@kusam-meco.co.in **Web.:** www.kusamelectrical.com