KUSAM-MECO®
An ISO 9001:2015 Company

DIGITAL INSULATION RESISTANCE TESTER (5KV, 1TΩ)

THINK SAFETY
THINK KUSAM-MECO®

Model - KM 2805 MK-1 insulation resistance tester is a handheld instrument designed primarily to make resistance / insulation resistance measurement

Model KM 2805 MK-1



Preliminary Data

PHYSICAL SPECIFICATION

Display (LCD)	Digital : 9999 Counts, Analog bar graph with LCD backlight
Operating Temperature	-10°C~40°C (14°F~104°F)
Storage Temperature	-20°C~ 60°C (-4°F~ 152°F)
Relative Humidity	≤ 85% @ 0°C~ 40°C below ; ≤ 90% @ -20°C ~ 60°C.
Battery Type	8 pcs of 1.5V (LR 14) Batteries or power adaptor (input voltage 230, 50/60Hz, 150 mA, input DC15V, 1.0A). (optionally available at extra cost.)
Dimensions	202(H) x 155(W) x 94(L) mm
Weight	Approx. 2kg (including battery).

GENERAL SPECIFICATION

Range	Auto ranging.
Overloading	Display **OL** on Insulation Resistance range
Battery Indicator	Displays Battery Condition
Icon Display	Equips with function and battery indicator icons.
Current Consumption	Maximum : around 1.0A, Average : around 20mA
Display Backlight	Bright backlight for clear readings in poorly lighted areas.
Computer Connection	Via USB interface.
Data Logging and Recall	18 points
Autorange	The Meter automatically selects best range
Warning	⚠ And red light will on.
Voltage	Auto discharge Voltage function
Compare Measurement	Use the compare function to set a pass/fail compare level for the insulation measurements.
PI Measurement	Polarization Index is the ratio of insulation resistance. You can pre-set two points of time and automatically carry out the measurement
Time	To carry out measurement by setting specified time within15 Minutes
Accessories	Two pcs of plug test lead to one alligator clip (Black & Green), One pc of Two plugs test lead to alligator clip (Red), Batteries, User's manual, Tool Box, USB interface cable, Software, Power Adaptor.

SAFETY

Certification	CE
Compliances	IEC 61010 CAT. III 600V over voltage and double insulation standard CE IEC61010, IEC61326, IEC61557

ACCURACY SPECIFICATION

Accuracy	± (% of reading) + (number of least significant digits).
Operating Temperature	18°C ~ 28°C
Relative Humidity	45 ~ 75% RH

VOLTAGE MEASUREMENT

	DC Voltage	**AC Voltage**
Measurement Range	±30 ~ ±600V	30 V~ 600V(50/60Hz)
Resolution	1 V	
Accuracy	± (2% + 3)	

APPLICATION :

Long cables, motors with many windings, and power transformers all belong to capacitive loads. When accurately measuring the resistance of such objects, the output short-circuit current of the insulation resistance tester can reflect the internal resistance of the output high-voltage source of the insulation resistence tester. A larger short circuit current can make the capacitor charging process faster and take less test time to get a more realistic insulation resistance value.

INSULATION RESISTANCE MEASUREMENT

Output Voltage	**500V**	**1000V**	**2500V**	**5000V**
Display Range	1MΩ ~ 20GΩ	2MΩ ~ 40GΩ	5MΩ ~ 100GΩ	10MΩ ~ 1000GΩ
Open Circuit Voltage	DC 500V 0% ~ +20%	DC1000V 0% ~ +20%	DC 2500V 0% ~ +20%	DC5000V 0% ~ +20%
Test Current	1mA~1.2mA@500kΩ	1mA~1.2mA@1MΩ	1mA~1.2mA@2.5MΩ	1mA~1.2mA@5MΩ
Short Circuit Current	>3.5mA			
Accuracy	0.0MΩ ~ 99.9M Ω : ±(3%+5) 100MΩ ~ 9.99G Ω : ±(5%+5) 10.0GΩ ~ 20.0G Ω : ±(10%+5)	0.0MΩ ~ 99.9M Ω : ±(3%+5) 100MΩ ~ 9.99G Ω : ±(5%+5) 10.0GΩ ~ 40.0G Ω : ±(10%+5)	0.0MΩ ~ 99.9M Ω : ±(3%+5) 100MΩ ~ 9.99G Ω : ±(5%+5) 10.0GΩ ~ 100.0G Ω : ±(10%+5)	0.0MΩ ~ 99.9M Ω : ±(3%+5) 100MΩ ~ 9.99G Ω : ±(5%+5) 10.0GΩ ~ 99.9G Ω : ±(10%+5) Above 100GΩ: [±(20%+5) Humidity :below 50%]

All Specifications are subject to change without prior notice.

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