

**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 <b>OL</b> 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 within 15 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<br>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)  |                     |

#### INSULATION RESISTANCE MEASUREMENT

| Output Voltage        | 500V                                                                               | 1000V                                                                              | 2500V                                                                               | 5000V                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Display Range         | 1MΩ ~ 5.5GΩ                                                                        | 2MΩ ~ 40GΩ                                                                         | 5MΩ ~ 100GΩ                                                                         | 10MΩ ~ 1000GΩ                                                                                                                        |
| Open Circuit Voltage  | DC 500V 0% ~ +20%                                                                  | DC 1000V 0% ~ +20%                                                                 | DC 2500V 0% ~ +20%                                                                  | DC 5000V 0% ~ +20%                                                                                                                   |
| Test Current          | 3.5mA @1MΩ                                                                         | 3.5mA @2MΩ                                                                         | 3.5mA @5MΩ                                                                          | 3.5mA @10MΩ                                                                                                                          |
| Short Circuit Current | >3.5mA                                                                             |                                                                                    |                                                                                     |                                                                                                                                      |
| Accuracy              | 0.0MΩ ~ 99.9MΩ : ±(3%+5)<br>100MΩ ~ 9.99GΩ : ±(5%+5)<br>10.0GΩ ~ 20.0GΩ : ±(10%+5) | 0.0MΩ ~ 99.9MΩ : ±(3%+5)<br>100MΩ ~ 9.99GΩ : ±(5%+5)<br>10.0GΩ ~ 40.0GΩ : ±(10%+5) | 0.0MΩ ~ 99.9MΩ : ±(3%+5)<br>100MΩ ~ 9.99GΩ : ±(5%+5)<br>10.0GΩ ~ 100.0GΩ : ±(10%+5) | 0.0MΩ ~ 99.9MΩ : ±(3%+5)<br>100MΩ ~ 9.99GΩ : ±(5%+5)<br>10.0GΩ ~ 99.9GΩ : ±(10%+5)<br>Above 100GΩ: [±(20%+5)<br>Humidity :below 50%] |

Note: All Specification are Subject to change without prior notice.