

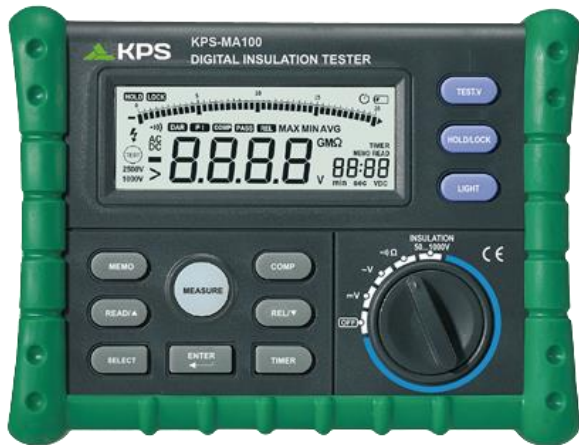
# INSULATION TESTERS

## INSULATION TESTERS (designed and manufactured by KPS)

Insulation is a safety element that has the purpose of avoiding contact with live parts. Therefore, the insulation test reveals possible failures caused by contamination, humidity, deterioration of the insulation material, etc. KPS range offers different models according to their voltages test up to 1kV, 5 kV and 10kV respectively, being the suitable equipment for insulation troubleshooting and preventative maintenance applications.

Experts in Measurement Instrumentation





**KPS-MA100**  
Insulation tester up to 1kV

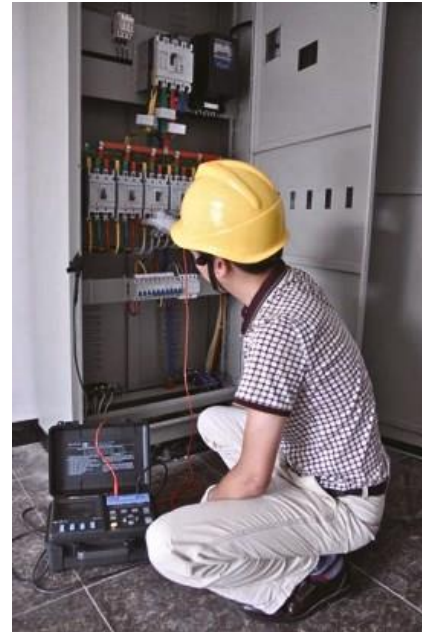
VOLTAGE  
DC 1000V  
AC 750V

RESISTANCE  
10GΩ



| SKU           | UPC          | EAN 13        |
|---------------|--------------|---------------|
| KPSMA100CBINT | 810053670347 | 8435394747323 |

- Rugged, compact and advanced Insulation resistance tester
- Insulation Voltage test (50V, 100V, 250V, 500V and 1000V)
- DAR/PI calculation
- Programmable timer
- MAX/MIN/AVG values. Relative measurement
- Compare function
- Data register
- DC/AV voltage and resistance measurement
- Continuity test
- Auto
- off display backlight and low battery display
- CAT III 1000V, CAT IV 600V according to EN 61010



RESISTANCE  
5TΩ

VOLTAGE  
DC 1000V \ AC 750V

LEAK CURRENTS  
300 mA

**KPS-MA500**  
**Insulation tester up to 5kV**

| SKU           | UPC          | EAN 13        |
|---------------|--------------|---------------|
| KPSMA500CBINT | 810053670354 | 8435394747330 |

- Insulation tester up to 5 KV with adjustable test voltage in 25V or 100V steps.
- 10000 counts. - DAR/PI calculation
- Step voltage test
- Temperature compensation
- Compare function - Data register and PC software for downloading the results
- DC/AV voltage measurement
- CATIII 1000V/CATIV 600V according to EN 61010



## INSUTEST10000 (designed and manufactured by KPS)

The INSUTEST10000 is a small and light 10 kV insulation resistance tester for the diagnostic testing and maintenance of high voltage electrical equipment, cables, generators, circuit breakers, motors...etc

| SKU                   | UPC          | EAN 13        |
|-----------------------|--------------|---------------|
| KPSINSUTEST10000CBINT | 810053671276 | 8435394776408 |



## MAIN FEATURES

- 2 Lines × 16 Characters LCD
- Microprocessor-controlled
- Tests insulation resistance up to 20 TΩ
- 4 Insulation test voltages: 1000V, 2500V, 5000V, 10000V
- AC / DC Voltmeter (30~600V)
- Auto-ranging on all insulation ranges
- Auto-discharge function
- Well isolated from contact
- Well protected from surges
- 2 built-in optical LEDs for data transfer
- Visual and audio warning of external voltage presence ( $\geq 30V_{ac}$  or  $\geq 30V_{dc}$ )
- Auto-hold function to freeze reading
- Overload protection
- Adjustable testing duration: 1~30 minutes
- Internal memory for data storage
- Displays testing duration for insulation measurement
- Auto-off function
- 200 measurement results can be saved in memory and recalled on display
- Optical USB to RS-232 data transmission

## Data Communication Function with measurement storage and PC interface

- Data can be downloaded and saved to a PC.
- Data can also be transferred to a PC for real-time display.
- 200 measurement results can be saved in the memory and recalled on the display.



|   |   |
|---|---|
| <b>RISO</b><br>Test voltages: 1kV, 2.5kV, 5kV, 10kV<br>Ratio: 0-20TΩ        | <b>VOLTAGE VAC: 30~600V</b><br>(50/60Hz) VDC: 30~600V |
| <b>RATIOS PI (Polarization Index)</b><br><b>DAR (Dielectric Absorption)</b> | <b>VOLTAGE VAC: 30~600V</b><br>(50/60Hz) VDC: 30~600V |

| Function                                 | Range   |
|--|---|
| <b>Test Voltage</b>                      | 1000V, 2500V, 5000V, 10000V   |
| <b>Insulation resistance</b>             | 2TΩ / 1000V<br>5TΩ / 2500V<br>10TΩ / 5000V<br>20TΩ / 10000V   |
| <b>Resolution</b>                        | 1000MΩ: 1MΩ<br>10GΩ: 0.01GΩ<br>100GΩ: 0.1GΩ<br>1TΩ: 1GΩ<br>10TΩ: 10GΩ<br>20TΩ: 100GΩ  |
| <b>Short Circuit Current</b>             | Up to 5mA   |
| <b>PI (Polarization Index)</b>           | Yes   |
| <b>DAR (Dielectric Absorption Ratio)</b> | Yes   |
| <b>Voltmeter</b>                         | ACV: 30~600V (50/60Hz)<br>DCV: 30~600V<br>Resolution: 1V  |
| <b>Current measurement</b>               | 0.5nA ~ 0.55mA (Depending on the insulation Resistance)   |
| General Features                         |   |
| <b>Power source</b>                      | 1.5V "C" × 8 Alkaline Batteries   |
| <b>Dimensions</b>                        | 330 (L) × 260 (W) × 160 (D) mm  |
| <b>Weight</b>                            | Approx. 4284g (battery included)  |
| <b>Safety standard</b>                   | EN 61010-1 CAT IV 600V EN<br>61010-2-030<br>EN 61326-1  |
| <b>Accessories</b>                       | <ul style="list-style-type: none"> <li>• Instruction manual</li> <li>• Test leads</li> <li>• Data transmission cable CA-232</li> <li>• Alligator clips</li> <li>• Batteries</li> <li>• Calibration certificate</li> </ul> |



**KPS-MA100**



**KPS-MA500**



**INSUTEST10000**

| SKU                                    | KPSMA100CBINT                | KPSMA500CBINT                   | KPSINSUTEST10000CBINT       |
|--|------------------------------|---------------------------------|-----------------------------|
| Voltage Test (Vdc)                     | 50V, 100V, 250V, 500V, 1000V | 250V, 500V, 1000V, 2500V, 5000V | 1000V, 2500V, 5000V, 10000V |
| Insulation resistance                  | 10GΩ                         | 5TΩ                             | 20TΩ                        |
| Voltage test:50Vdc, 100Vdc             | √                            | -                               | -                           |
| Voltage test:250Vdc, 500Vdc            | √                            | √                               | -                           |
| Voltage test:1000Vdc                   | √                            | √                               | √                           |
| Voltage test:2500Vdc, 5000Vdc          | -                            | √                               | √                           |
| Voltage test:10000Vdc                  | -                            | -                               | √                           |
| Configurable Intermedium voltages test | -                            | √                               | -                           |
| Stepped voltages test                  | -                            | √                               | -                           |
| DAR/PI                                 | √                            | √                               | √                           |
| Timer                                  | √                            | √                               | √                           |
| Temperature compensation               | -                            | √                               | -                           |
| Auto discharge                         | -                            | √                               | √                           |
| DC Voltage measurement                 | 1000V                        | 1000V                           | 600V                        |
| AC Voltage measurement                 | 750V                         | 750V                            | 600V                        |
| Leakage current measurement            | -                            | 3mA                             | -                           |
| Resistance measurement                 | 200Ω                         | -                               | -                           |
| Continuity Test                        | √                            | -                               | -                           |
| Temperature measurement                | -                            | 70°C                            | -                           |
| Relative measurement                   | √                            | -                               | -                           |
| MAX/MIN                                | √                            | -                               | -                           |
| Auto range                             | √                            | √                               | √                           |
| Auto Power Off                         | √                            | √                               | √                           |
| Backlight                              | √                            | √                               | -                           |
| Low battery Indicator                  | √                            | √                               | √                           |
| Datalogging                            | √                            | √                               | √                           |
| PC communication                       | -                            | USB                             | USB                         |
| Safety rating according to EN61010     | CAT III 1000V<br>CAT IV 600V | CAT III 1000V<br>CAT IV 600V    | CAT IV 600V                 |