

## 5KV DIGITAL INSULATION RESISTANCE TESTER MODEL- KM 5405



## PRODUCT INTRODUCTION

Digital insulation resistance meter, also name megohmmeter, high voltage insulation resistance tester, is used for insulation resistance test. This instrument has a large LCD screen gray backlit display, data storage, data review, alarm, Automatic discharge, charging, automatic shutdown & other functions. At the same time, it also has the function of measuring absorption ratio and polarization index of AC voltage and DC voltage. The machine is beautiful & upscale, has a wide range, high resolution, convenient operation, easy to carry, accurate, reliable, stable performance, Large output power, strong anti-interference ability.

Digital insulation resistance meter also has a shockproof, dustproof, moisture-proof structure, and adapts to the harsh working environment. It is a commonly used & indispensable instrument for Telecommunications, electricity, weather, computer rooms, oil fields, electro mechanical installation and maintenance, and industrial enterprises that use electricity as industrial power or energy. It is suitable for measuring the resistance value of various insulating materials and the insulation resistance of transformers, motors, cables and electrical equipment.

## **FEATURES**

Rated applied voltage: 100; 250; 500; 1000; 2500; 5KV

• Resistance limit range :  $0.01M\Omega \sim 10T\Omega$  • Resolution :  $0.01M\Omega$ 

Accuracy : ±3%rdg±5dgt • Output short-circuitt current : ≥6mA





## **TECHNICAL SPECIFICATIONS**

| Basic condition         23°C±5°C · below 75%rh           Rated voltage(V)         100V; 250V; 500V; 1000V; 2500V; 5000V   Accuracy rated voltage ×(1±10%)           Step voltage(V)         ±5V, ±50V For each range           Insulation resistance range(GΩ)         0.01MΩ ~ 10TΩ   Accuracy: ±3%rdg±5dgt   Resolution: 0.01MΩ           DC voltage range         0.1 ~ 1000V   AC voltage range         Accuracy: ±5.0%rdg±5dgt   Resolution: 0.1V           DC current measurement         0.01nA ~ 6mA   Accuracy: ±5.0%rdg±5dgt   Resolution: 0.01nA           Capacitance test         10nF ~ 50µF   Accuracy: ±10%rdg±5dgt   Resolution: 0.01nA           Absorption ratio and polarization index measurement         have           Absorption ratio and polarization index measurement         10nF ~ 50µF   Accuracy: ±10%rdg±5dgt   Resolution: 0.01nA           Power         12V rechargeable battery           Backlight         Controllable gray screen backlight, suitable for use in dim places           Display mode         4-bit large LCD display, gray screen backlight           USB interface         With USB interface, software monitoring, storage data can upload computer, save and print           Communication line         USB communication line 1pc           High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters           Data Review         Data review function: "READ" symbol display           Overflow Display <th>TECHNICAL SPECIFICATIO</th> <th></th> <th></th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TECHNICAL SPECIFICATIO                              |                                                                                                        |                                           |                    |
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| Rated voltage(V)   100V; 250V; 500V; 1000V; 2500V; 500V   Accuracy rated voltage ×(1±10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Function                                            | Insulation resistance test, voltage test, current test, capacitance test                               |                                           |                    |
| Step voltage(V)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Basic condition                                     | 23°C±5°C · below 75%rh                                                                                 |                                           |                    |
| Insulation resistance range(GΩ)   0.01MΩ ~10TΩ   Accuracy: ±3%rdg±5dgt   Resolution: 0.01MΩ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rated voltage(V)                                    | 100V; 250V; 500V; 1000V; 2500V; 5000V Accuracy rated voltage ×(1±10%)                                  |                                           |                    |
| DC voltage range  0.1 ~ 1000V AC voltage range  0.1 ~ 750V  DC current measurement  0.01nA ~ 6mA Accuracy: ±1.5%rdg±3dgt Resolution: 0.1V  Absorption ratio and polarization index measurement Ramp Test Function  Power  12V rechargeable battery  Backlight Controllable gray screen backlight, suitable for use in dim places  Display mode 4-bit large LCD display, gray screen backlight Instrument size  USB interface With USB interface, software monitoring, storage data can upload computer, save and print  USB communication line USB communication line 1pc  Test line Pata Storage  Data Storage  500 groups, "FULL" symbol indicates that storage is full Data Review Data review function: "READ" symbol display  Overflow Display  Exceed measurement range overflow function: "OL" symbol display  When the measured value exceeds the alarm set value, an alarm prompt is issued.  Instrument weight  2720g(including battery)  Standby: 30mA Max(backlight off)  Battery voltage  When the battery voltage is low, low battery symbol will display  Automatic shut-down  Insulation Resistance  >50MC(between Measuring line and housing)  Pressure Resistance  AC3RV/SoHz Imin  - 10°C ~ +50°C < 85%RH  Suitable for Safety Regulations  Accuracy: ±1.5%rdg±3dgt  Resolution: 0.1V  Accuracy: ±1.5%rdg±3dgt  Resolution: 0.1V  Accuracy: ±1.5%rdg±3dgt  Resolution: 0.1V  Accuracy: ±1.5%rdg±3dgt  Resolution: 0.10n  Accuracy: ±1.5%rdg±3dgt  Resolution: 0.10n  Accuracy: ±1.5%rdg±3dgt  Resolution: 0.10n  Resolution: 0.1V  Resolution: 0.10n  Resolution: 0.1V  Resolution: 0.1nA  Resolution: 0.1v  Resolution: 0.1nA  Resolution: 0.1nA  Resolution: 0.1nA  Resolution: 0.1n  Resol | Step voltage(V)                                     | ±5V, ±50V For each range                                                                               |                                           |                    |
| AC voltage range  0.1 ~ 750V  Accuracy: ±1.5%rdg±3dgt  Resolution: 0.1V  DC current measurement  0.01nA ~ 6mA  Accuracy: ±5.0%rdg±5dgt  Resolution: 0.01nA  Absorption ratio and polarization index measurement  Ramp Test Function  Power  12V rechargeable battery  Backlight  Controllable gray screen backlight, suitable for use in dim places  Display mode  4-bit large LCD display, gray screen backlight  Instrument size  240mm (L)*188mm (W)*85mm (H)  With USB interface, software monitoring, storage data can upload computer, save and print  USB communication line 1 USB communication line 1pc  Test line  High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters  Data Storage  500 groups, "FULL" symbol indicates that storage is full  Data Review  Data review function: "READ" symbol display  Overflow Display  Exceed measurement range overflow function: "OL" symbol display  Alarm function  When the measured value exceeds the alarm set value, an alarm prompt is issued.  Instrument weight  2720g(including battery)  Standby: 30mA Max(backlight off)  Power Consumption  Battery voltage  When the battery voltage is low, low battery symbol will display  Automatic shut-down  Insulation Resistance  ≥50MC(between Measuring line and housing)  Acsilonation pollution grade 2, CAT IV 600V  High voltage bar, High voltage test line, USB communication lineUSB,  High voltage bar, High voltage test line, USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Insulation resistance range(GΩ)                     | 0.01ΜΩ ~ 10ΤΩ                                                                                          | Accuracy: ±3%rdg±5dgt Resolution: 0.01MΩ  |                    |
| AC voltage range 0.1 ~ 750V   Second Secon | DC voltage range                                    | 0.1 ~ 1000V                                                                                            | Accuracy : ±1.5%rdg±3dgt Resolution: 0.1V |                    |
| Capacitance test         10nF ~ 50μF         Accuracy : ±10%rdg±5dgt         Resolution: 10nF           Absorption ratio and polarization index measurement         have           Ramp Test Function         12V rechargeable battery           Power         12V rechargeable battery           Backlight         Controllable gray screen backlight, suitable for use in dim places           Display mode         4-bit large LCD display, gray screen backlight           Instrument size         240mm (L)*188mm (W)*85mm (H)           USB interface         With USB interface, software monitoring, storage data can upload computer, save and print           Communication line         USB communication line 1pc           Test line         High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters           Data Storage         500 groups, "FULL" symbol indicates that storage is full           Data Review         Data review function: "READ" symbol display           Overflow Display         Exceed measurement range overflow function: "OL" symbol display           Alarm function         When the measured value exceeds the alarm set value, an alarm prompt is issued.           Instrument weight         2720g(including battery)           Standby: 30mA Max(backlight off)         Turn on backlight: 42mA Max           Measure: 200mA Max(backlight off)           Turn on backlight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AC voltage range                                    | 0.1 ~ 750V                                                                                             |                                           |                    |
| Absorption ratio and polarization index measurement  Ramp Test Function  Power 12V rechargeable battery  Backlight Controllable gray screen backlight, suitable for use in dim places  Display mode 4-bit large LCD display, gray screen backlight  Instrument size 240mm (L)*188mm (W)*85mm (H)  USB interface With USB interface, software monitoring, storage data can upload computer, save and print  Communication line USB communication line 1pc  High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters  Data Storage 500 groups, "FULL" symbol indicates that storage is full  Data Review Data review function: "READ" symbol display  Overflow Display Exceed measurement range overflow function: "OL" symbol display  When the measured value exceeds the alarm set value, an alarm prompt is issued.  Instrument weight 2720g(including battery)  Standby: 30mA Max(backlight off)  Turn on backlight: 42mA Max  Measure: 200mA Max(backlight off)  Battery voltage When the battery voltage is low, low battery symbol will display  Automatic shut-down automatic shutdown after 15 minutes boot  Insulation Resistance 250MΩ(between Measuring line and housing)  Pressure Resistance AC3kV/50Hz 1min  Working Temperature and Humidity -15°C ~ +55°C < 90%RH  Suitable for Safety Regulations  Pressories High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DC current measurement                              | 0.01nA ~ 6mA                                                                                           | Accuracy: ±5.0%rdg±5dg                    | Resolution: 0.01nA |
| Index measurement Ramp Test Function  Power  12V rechargeable battery  Backlight Controllable gray screen backlight, suitable for use in dim places  4-bit large LCD display, gray screen backlight Instrument size 240mm (L)*188mm (W)*85mm (H) USB interface With USB interface, software monitoring, storage data can upload computer, save and print  Communication line USB communication line 1pc  Test line High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters  Data Storage 500 groups, "FULL" symbol indicates that storage is full  Data Review Data review function: "READ" symbol display  Overflow Display Exceed measurement range overflow function: "OL" symbol display  When the measured value exceeds the alarm set value, an alarm prompt is issued.  Instrument weight 2720g(including battery) Standby: 30mA Max(backlight off)  Turn on backlight: 42mA Max Measure: 200mA Max(backlight off)  Battery voltage When the battery voltage is low, low battery symbol will display  Automatic shut-down Insulation Resistance ≥50MΩ(between Measuring line and housing)  Pressure Resistance AC3kV/50Hz 1min  Vorking Temperature and Humidity - 10°C ~+50°C <85%RH  Storage Temperature and Humidity - 15°C ~+55°C <90%RH  "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V  High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Capacitance test                                    | 10nF ~ 50μF                                                                                            | Accuracy: ±10%rdg±5dgt                    | Resolution: 10nF   |
| Power   12V rechargeable battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Absorption ratio and polarization index measurement | have                                                                                                   |                                           |                    |
| Backlight Controllable gray screen backlight, suitable for use in dim places  Jisplay mode Jeff Large LCD display, gray screen backlight  240mm (L)*188mm (W)*85mm (H)  With USB interface With USB interface, software monitoring, storage data can upload computer, save and print  Communication line USB communication line 1pc  Test line Pligh voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters  Data Storage Jog groups, "FULL" symbol indicates that storage is full  Data Review Data review function: "READ" symbol display  Overflow Display Exceed measurement range overflow function: "OL" symbol display  When the measured value exceeds the alarm set value, an alarm prompt is issued.  Instrument weight 2720g(including battery) Standby: 30mA Max(backlight off)  Turn on backlight: 42mA Max Measure: 200mA Max(backlight off)  Battery voltage When the battery voltage is low, low battery symbol will display  Automatic shut-down Insulation Resistance ≥50MΩ(between Measuring line and housing)  Pressure Resistance Working Temperature and Humidity - 10°C ~ +50°C < 85%RH  Storage Temperature and Humidity - 15°C ~ +55°C < 90%RH  "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V  High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ramp Test Function                                  |                                                                                                        |                                           |                    |
| Display mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Power                                               | 12V rechargeable battery                                                                               |                                           |                    |
| Substitute   240mm (L)*188mm (W)*85mm (H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Backlight                                           | Controllable gray screen backlight, suitable for use in dim places                                     |                                           |                    |
| USB interface         With USB interface, software monitoring, storage data can upload computer, save and print           Communication line         USB communication line 1pc           Test line         High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters           Data Storage         500 groups, "FULL" symbol indicates that storage is full           Data Review         Data review function: "READ" symbol display           Overflow Display         Exceed measurement range overflow function: "OL" symbol display           When the measured value exceeds the alarm set value, an alarm prompt is issued.         Value exceeds the alarm set value, an alarm prompt is issued.           Instrument weight         2720g(including battery)           Standby: 30mA Max(backlight off)         Turn on backlight: 42mA Max           Measure: 200mA Max(backlight off)           Battery voltage         When the battery voltage is low, low battery symbol will display           Automatic shut-down         automatic shutdown after 15 minutes boot           Insulation Resistance         ≥50MΩ(between Measuring line and housing)           Pressure Resistance         AC3kV/50Hz 1min           Working Temperature and Humidity         -10°C ~ +50°C < 85%RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Display mode                                        | 4-bit large LCD display, gray screen backlight                                                         |                                           |                    |
| USB Interface         Communication line       USB communication line 1pc         Test line       High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters         Data Storage       500 groups, "FULL" symbol indicates that storage is full         Data Review       Data review function: "READ" symbol display         Overflow Display       Exceed measurement range overflow function: "OL " symbol display         When the measured value exceeds the alarm set value, an alarm prompt is issued.       When the measured value exceeds the alarm set value, an alarm prompt is issued.         Instrument weight       2720g(including battery)         Standby: 30mA Max(backlight off)       Turn on backlight: 42mA Max         Measure: 200mA Max(backlight off)       When the battery voltage is low, low battery symbol will display         Automatic shut-down       automatic shutdown after 15 minutes boot         Insulation Resistance       ≥50MΩ(between Measuring line and housing)         Pressure Resistance       AC3kV/50Hz 1min         Working Temperature and Humidity       -10°C ~+50°C < 85%RH         Suitable for Safety Regulations       "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V         Accessories       High voltage bar, High voltage test line, USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Instrument size                                     | ( ) ( )                                                                                                |                                           |                    |
| Test line    High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters   500 groups, "FULL" symbol indicates that storage is full     Data Review   Data review function: "READ" symbol display     Overflow Display   Exceed measurement range overflow function: "OL" symbol display     Alarm function   When the measured value exceeds the alarm set value, an alarm prompt is issued.     Instrument weight   2720g(including battery)     Standby: 30mA Max(backlight off)     Turn on backlight: 42mA Max     Measure : 200mA Max(backlight off)     Battery voltage   When the battery voltage is low, low battery symbol will display     Automatic shut-down   automatic shutdown after 15 minutes boot     Insulation Resistance   ≥50MΩ(between Measuring line and housing)     Pressure Resistance   AC3kV/50Hz 1min     - 10°C ~ +50°C < 85%RH     Suitable for Safety Regulations   "IEC61010-2-31, IEC61557-1,5, IEC60529(IP54)     pollution grade 2, CAT IV 600V     High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USB interface                                       |                                                                                                        |                                           |                    |
| Data Storage       500 groups, "FULL" symbol indicates that storage is full         Data Review       Data review function: "READ" symbol display         Overflow Display       Exceed measurement range overflow function: "OL" symbol display         Alarm function       When the measured value exceeds the alarm set value, an alarm prompt is issued.         Instrument weight       2720g(including battery)         Standby: 30mA Max(backlight off)       Turn on backlight: 42mA Max         Measure: 200mA Max(backlight off)         Battery voltage       When the battery voltage is low, low battery symbol will display         Automatic shut-down       automatic shutdown after 15 minutes boot         Insulation Resistance       ≥50MΩ(between Measuring line and housing)         Pressure Resistance       AC3kV/50Hz 1min         Working Temperature and Humidity       - 10°C ~ +55°C < 85%RH         Suitable for Safety Regulations       "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V         Accessories       High voltage bar, High voltage test line, USB communication line USB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Communication line                                  | USB communication line 1pc                                                                             |                                           |                    |
| Data Review         Data review function: "READ" symbol display           Overflow Display         Exceed measurement range overflow function: "OL" symbol display           Alarm function         When the measured value exceeds the alarm set value, an alarm prompt is issued.           Instrument weight         2720g(including battery)           Power Consumption         Standby: 30mA Max(backlight off)           Turn on backlight: 42mA Max         Measure : 200mA Max(backlight off)           Battery voltage         When the battery voltage is low, low battery symbol will display           Automatic shut-down         automatic shutdown after 15 minutes boot           Insulation Resistance         ≥50MΩ(between Measuring line and housing)           Pressure Resistance         AC3kV/50Hz 1min           Working Temperature and Humidity         - 10°C ~ +50°C < 85%RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Test line                                           | High voltage rod red line 3 meters, high voltage test line black line 1.5 meters green line 1.5 meters |                                           |                    |
| Overflow Display         Exceed measurement range overflow function: "OL " symbol display           Alarm function         When the measured value exceeds the alarm set value, an alarm prompt is issued.           Instrument weight         2720g(including battery)           Standby: 30mA Max(backlight off)           Turn on backlight: 42mA Max           Measure: 200mA Max(backlight off)           Battery voltage         When the battery voltage is low, low battery symbol will display           Automatic shut-down         automatic shutdown after 15 minutes boot           Insulation Resistance         ≥50MΩ(between Measuring line and housing)           Pressure Resistance         AC3kV/50Hz 1min           Working Temperature and Humidity         - 10°C ~ +50°C < 85%RH           Storage Temperature and Humidity         - 15°C ~ +55°C < 90%RH           Suitable for Safety Regulations         "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V           Accessories         High voltage bar, High voltage test line, USB communication line USB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Data Storage                                        | 500 groups, "FULL" symbol indicates that storage is full                                               |                                           |                    |
| Alarm function       When the measured value exceeds the alarm set value, an alarm prompt is issued.         Instrument weight       2720g(including battery)         Power Consumption       Standby: 30mA Max(backlight off)         Turn on backlight: 42mA Max       Measure : 200mA Max(backlight off)         Battery voltage       When the battery voltage is low, low battery symbol will display         Automatic shut-down       automatic shutdown after 15 minutes boot         Insulation Resistance       ≥50MΩ(between Measuring line and housing)         Pressure Resistance       AC3kV/50Hz 1min         Working Temperature and Humidity       - 10°C ~ +50°C < 85%RH         Storage Temperature and Humidity       - 15°C ~ +55°C < 90%RH         Suitable for Safety Regulations       "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V         Accessorios       High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Data Review                                         | , , ,                                                                                                  |                                           |                    |
| Power Consumption   Standby: 30mA Max(backlight off)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Overflow Display                                    |                                                                                                        |                                           |                    |
| Standby: 30mA Max(backlight off)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Alarm function                                      |                                                                                                        |                                           |                    |
| Power Consumption       Turn on backlight: 42mA Max         Measure: 200mA Max(backlight off)         When the battery voltage is low, low battery symbol will display         Automatic shut-down       automatic shutdown after 15 minutes boot         Insulation Resistance       ≥50MΩ(between Measuring line and housing)         Pressure Resistance       AC3kV/50Hz 1min         Working Temperature and Humidity       - 10°C ~ +50°C < 85%RH         Storage Temperature and Humidity       - 15°C ~ +55°C < 90%RH         Suitable for Safety Regulations       "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V         Accessories       High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Instrument weight                                   |                                                                                                        |                                           |                    |
| Measure : 200mA Max(backlight off)         Battery voltage       When the battery voltage is low, low battery symbol will display         Automatic shut-down       automatic shutdown after 15 minutes boot         Insulation Resistance       ≥50MΩ(between Measuring line and housing)         Pressure Resistance       AC3kV/50Hz 1min         Working Temperature and Humidity       - 10°C ~ +50°C < 85%RH         Storage Temperature and Humidity       - 15°C ~ +55°C < 90%RH         Suitable for Safety Regulations       "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V         Accessories       High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Power Consumption                                   | , , ,                                                                                                  |                                           |                    |
| Battery voltage       When the battery voltage is low, low battery symbol will display         Automatic shut-down       automatic shutdown after 15 minutes boot         Insulation Resistance       ≥50MΩ(between Measuring line and housing)         Pressure Resistance       AC3kV/50Hz 1min         Working Temperature and Humidity       - 10°C ~ +50°C < 85%RH         Storage Temperature and Humidity       - 15°C ~ +55°C < 90%RH         Suitable for Safety Regulations       "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V         Accessorios       High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |                                                                                                        |                                           |                    |
| Automatic shut-down       automatic shutdown after 15 minutes boot         Insulation Resistance       ≥50MΩ(between Measuring line and housing)         Pressure Resistance       AC3kV/50Hz 1min         Working Temperature and Humidity       - 10°C ~ +50°C < 85%RH         Storage Temperature and Humidity       - 15°C ~ +55°C < 90%RH         Suitable for Safety Regulations       "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V         Accessorios       High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     | , ,                                                                                                    |                                           |                    |
| Suitable for Safety Regulations   ≥50MΩ(between Measuring line and housing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Battery voltage                                     |                                                                                                        |                                           |                    |
| Pressure Resistance  Working Temperature and Humidity  - 10°C ~+50°C < 85%RH  Storage Temperature and Humidity  - 15°C ~+55°C < 90%RH  Suitable for Safety Regulations  "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V  High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Automatic shut-down                                 |                                                                                                        |                                           |                    |
| Working Temperature and Humidity  Storage Temperature and Humidity  Suitable for Safety Regulations  Tighthamperature and Humidity  - 15°C ~ +55°C < 90%RH  "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V  High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Insulation Resistance                               | ≥50MΩ(between Measuring line and housing)                                                              |                                           |                    |
| and Humidity - 10°C ×+50°C < 85%RH  Storage Temperature and Humidity - 15°C × +55°C < 90%RH  Suitable for Safety Regulations "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V  Accessories High voltage bar, High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pressure Resistance                                 | AC3kV/50Hz 1min                                                                                        |                                           |                    |
| Suitable for Safety Regulations "IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT IV 600V  Accessories High voltage test line,USB communication lineUSB,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Working Temperature and Humidity                    | - 10°C ~ +50°C < 85%RH                                                                                 |                                           |                    |
| pollution grade 2, CAT IV 600V  Accessories  Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Storage Temperature and Humidity                    |                                                                                                        |                                           |                    |
| Accordance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Suitable for Safety Regulations                     |                                                                                                        |                                           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Accessories                                         |                                                                                                        |                                           |                    |



**Preliminary Data** 



All specifications are subject to change without prior notice.



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