



Product Datasheet

ENGLISH

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**RS PRO DIGITAL INSULATION TESTER**

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## Features

Meets IEC10101, CAT III 1000V

Large dual display with analog bargraph & backlight

Test hold & lock function for easy operation

Easy to carry testing package

Over range Indication

Low Battery Indication

Includes 6 AA batteries, test leads and plastic carrying case

Auto-discharge of capacitive voltage for added user protection

Live circuit detection prevents insulation test if voltage >30V is detected for added user protection

Min/Max recording & Data Hold

1mA test current for MegOhm range at rated voltage

200mA short current for continuity range

Insulation test voltages 125V,250V,500V,1000V

Double molded plastic housing

## 1.SPECIFICATIONS

### 1-1 General Information

#### Environment conditions:

- ① Installation Categories III 1000V
- ② Pollution Degree 2
- ③ Altitude up to 2000 meters
- ④ Indoor use only
- ⑤ Relatively humidity 80% max.
- ⑥ Operation Ambient 0~40°C


**Display:** 4000 count Large LCD with dual display

**Measurement Range:** 4000M $\Omega$ /125V, 4000M $\Omega$ /250V, 4000M $\Omega$ /500V, 4000M $\Omega$ /1000V, 400 $\Omega$ /Continuity, 1000V/DCV, .750V/ACV

**Sampling Rate:** 2.5 times per second.

**Zero Adjustment:** Automatic adjustment.

**Over Range Indicator:** "OL" of highest digit is displayed.

**Low Battery Indication:** The  is displayed when the battery Voltage drop below the operating voltage.

**Operating Temperature:** 0°C to 40°C (32°F to 104°F) and Humidity below 80% RH

**Storage Temperature:** -10°C to 60°C (14°F to 140°F) and Humidity below 70% RH

**Power source:** DC9V (6x1.5V Size "AA" battery or Equivalent)

**Dimensions:** 200(L) x 92(W) x 50(H) mm

**Weight:** Approx. 700g include battery

**Supplied Accessories:** Test leads, 6pcs battery, Carrying case and User manual.

## 1-2 Electrical Specifications

Accuracies are specified in the way:

$\pm(\dots\%$  of reading  $+\dots$  digits) at 23°C $\pm$ 5°C, below 80% RH.

## OHMS

Range	Resolution	Accuracy	Max. open Circuit Voltage	Overload Protection
40.00 $\Omega$	0.01 $\Omega$	$\pm(1.2\%+3)$	5.8V	250Vrms
400.0 $\Omega$	0.1 $\Omega$		5.8V	

## Continuity Beeper

Range	Resolution	Operation Resistance	Max.open Circuit Voltage	Overload Protection
•)))	0.01Ω	Resistance ≤ 35Ω	5.8V	250Vrms
Short circuit current		≅ 200mA		

## DC Voltage

Range	Resolution	Accuracy	Input Impedance	Overload Protection
1000V	1V	$\pm(0.8\%+3)$	10MΩ	1000Vrms

## AC Voltage (40Hz~400Hz)

Range	Resolution	Accuracy	Input Impedance	Overload Protection
750V	1V	$\pm(1.2\%+10)$	10MΩ	750Vrms

## Meg OHMS

Terminal Voltage	Range	Resolution	Accuracy	Test Current	Short circuit current
125V(0%~+10%)	0.125~4.000 MΩ	0.001MΩ	$\pm(2\%+10)$	1mA @load 125kΩ	≤1mA
	4.001~40.00 MΩ	0.01MΩ	$\pm(2\%+10)$		
	40.01~400.0 MΩ	0.1MΩ	$\pm(4\%+5)$		
	400.1~4000 MΩ	1MΩ	$\pm(5\%+5)$		
250V(0%~+10%)	0.250~4.000 MΩ	0.001MΩ	$\pm(2\%+10)$	1mA @load 250kΩ	≤1mA
	4.001~40.00 MΩ	0.01MΩ	$\pm(2\%+10)$		
	40.01~400.0 MΩ	0.1MΩ	$\pm(3\%+5)$		
	400.1~4000 MΩ	1MΩ	$\pm(4\%+5)$		
500V(0%~+10%)	0.500~4.000 MΩ	0.001MΩ	$\pm(2\%+10)$	1mA @load 500kΩ	≤1mA
	4.001~40.00 MΩ	0.01MΩ	$\pm(2\%+10)$		
	40.01~400.0 MΩ	0.1MΩ	$\pm(2\%+5)$		
	400.1~4000 MΩ	1MΩ	$\pm(4\%+5)$		
1000V(0%~+10%)	1.000~4.000 MΩ	0.001MΩ	$\pm(3\%+10)$	1mA @load 1MΩ	≤1mA
	4.001~40.00 MΩ	0.01MΩ	$\pm(2\%+10)$		
	40.01~400.0 MΩ	0.1MΩ	$\pm(2\%+5)$		
	400.1~4000 MΩ	1MΩ	$\pm(4\%+5)$		