



Product Datasheet

ENGLISH

Stock No: 123-1938

RS PRO DIGITAL MULTIMETER

EN



## Features

2000 Digital display counts  
Auto Ranging & Data Hold  
MAX Hold  
Display backlight  
EN61010-1 CATIII 600V  
Double molded plastic housing  
Diode Check  
Continuity Test

## SPECIFICATIONS

**The instrument complies with:** EN61010-1.

**Insulation:** Class2, Double insulation.

**Overvoltage category:** CATIII 600V

**Display:** 2000 counts LCD display with function indication.

**Polarity:** Automatic, (-) negative polarity indication.

**Overrange:** "OL" mark indication.

**Low battery indication:** The "BAT" is displayed when the battery voltage drops below the operating level.

**Measurement rate:** 2 times per second, nominal.

**Auto power off:** Meter automatically shuts down after approx. 15 minutes of inactivity.

**Operating environment:** 0 °C to 50 °C (32 °F to 122 °F) at < 70 % relative humidity.

**Storage temperature:** -20 °C to 60 °C (-4 °F to 140 °F) at < 80 % relative humidity.

**For inside use, max height:** 2000m

**Pollution degree:** 2

**Power:** One 9V battery , NEDA 1604, IEC 6F22.

**Dimensions:** 150 (H) x 70 (W) x 48 (D) mm

**Weight:** Approx.: 255g.

Accuracy is given at 18 °C to 28 °C (65 °F to 83 °F), less than 70 % RH.

## **DC Voltage** (Auto-ranging)

Range	Resolution	Accuracy
200.0mV	0.1mV	$\pm 0.5\%$ of rdg $\pm 2$ dgts
2.000V	1mV	$\pm 1.0\%$ of rdg $\pm 2$ dgts
20.00V	10mV	
200.0V	100mV	
600V	1V	$\pm 1.2\%$ of rdg $\pm 2$ dgts

Input Impedance: 10M $\Omega$

Maximum Input: 600V dc rms.

## AC Voltage (Auto-ranging except 200mV)

Range	Resolution	Accuracy
200.0mV	0.1mV	$\pm 1.5\%$ of rdg $\pm 30$ dgts
2.000V	1mV	$\pm 1.2\%$ of rdg $\pm 3$ dgts
20.00V	10mV	$\pm 1.5\%$ of rdg $\pm 3$ dgts
200.0V	100mV	
600V	1V	$\pm 2.0\%$ of rdg $\pm 4$ dgts

Input Impedance: 10M  $\Omega$

Frequency Range: 50 to 60Hz

Maximum Input: 600V dc/ac rms.

## DC Current (Auto-ranging for $\mu$ A and mA)

Range	Resolution	Accuracy
200.0 $\mu$ A	0.1 $\mu$ A	$\pm 1.0\%$ of rdg $\pm 3$ dgts
2000 $\mu$ A	1 $\mu$ A	$\pm 1.5\%$ of rdg $\pm 3$ dgts
20.00mA	10 $\mu$ A	
200.0mA	100 $\mu$ A	
10A	10mA	$\pm 2.5\%$ of rdg $\pm 5$ dgts

Overload Protection: 0.2A / 250V and 10A / 250V Fuse.

Maximum Input: 200mA dc or 200mA ac rms on  $\mu$ A / mA ranges, 10A dc or ac rms on 10A range.

## AC Current (Auto-ranging for uA and mA)

Range	Resolution	Accuracy
200.0uA	0.1uA	$\pm 1.5\%$ of rdg $\pm 5$ dgts
2000uA	1uA	$\pm 1.8\%$ of rdg $\pm 5$ dgts
20.00mA	10uA	
200.0mA	100uA	
10A	10mA	$\pm 3.0\%$ of rdg $\pm 7$ dgts

Overload Protection: 0.2A / 250V and 10A / 250V Fuse.

Frequency Range: 50 to 60 Hz

Maximum Input: 200mA dc or 200mA ac rms on uA / mA ranges, 10A dc or ac rms on 10A range.

## Resistance (Auto-ranging)

Range	Resolution	Accuracy
200.0 $\Omega$	0.1 $\Omega$	$\pm 1.2\%$ of rdg $\pm 4$ dgts
2.000k $\Omega$	1 $\Omega$	$\pm 1.0\%$ of rdg $\pm 2$ dgts
20.00k $\Omega$	10 $\Omega$	$\pm 1.2\%$ of rdg $\pm 2$ dgts
200.0k $\Omega$	100 $\Omega$	
2.000M $\Omega$	1k $\Omega$	
20.00M $\Omega$	10k $\Omega$	$\pm 2.0\%$ of rdg $\pm 3$ dgts

Input Protection: 250V

## Temperature

Range	Resolution	Accuracy
-50 <sup>0</sup> C~+1000 <sup>0</sup> C	1 <sup>0</sup> C	±3% of rdg ±5dgts
-58 <sup>0</sup> F~+1832 <sup>0</sup> F	1 <sup>0</sup> F	±3% of rdg ±8dgts

Sensor: Type K Thermocouple

Overload protection: 250V dc or ac rms..

## Diode Test

Test current	Resolution	Accuracy
0.3mA typical	1 mV	±10% of rdg ± 5 dgts

Open circuit voltage: 1.5V dc typical

Overload protection: 250V dc or ac rms.

## Audible continuity

Audible threshold: Less than 100Ω ; Test current: <0.3mA

Overload protection: 250V dc or ac rms.

## Accessories:

Test leads, 9V battery, type K temperature probe, User manual.