

FEATURES

- Compact and handheld
- Digital 2000 count LCD display
- 3-year warranty
- 104 x 70 x 48mm dimension
- Continuity tester
- Functions measured:
AC and DC Current,
AC and DC Voltage,
Resistance,
Temperature
Measurement

RS PRO Digital Multimeters- RS14 Handheld Digital Multimeter

RS Stock No.: 123-1938



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO RS14 Digital Multimeter

The RS PRO RS14 digital multimeter (DMM) is a handheld tool which can measure capacitance, voltage, electrical current and resistance with diode and continuity check. There is also a “hold” function available in the compact design making it very user-friendly. The multimeter is also CAT III rated for 600V.

General Specifications

Model Number (p)	RS14
Multimeter Type	Handheld
Functions Measured	AC Current, AC Voltage, DC Current, DC Voltage, Resistance, Temperature
True RMS	NO
Display Type	LCD
Operating Temperature (Min to Max)	0 °C to 50 °C (32 °F to 122 °F) at < 70 % relative humidity
Storage Temperature (Min to Max)	-20 °C to 60 °C (-4 °F to 140 °F) at < 80 % relative humidity
Diode Test	Yes
Continuity Test	Yes
Auto power off	Yes, / Approx. 15 minutes after last operation
Insulation	Class2, Double insulation.

Measurement

Type	Absolute Maximum Measurement	Resolution	Best Accuracy
DC Current	10A dc	0.1µA	±1% ± 3 Digits
AC Current	10A ac	0.1µA	±1.5% ± 5 Digits
Resistance	20MΩ	100mΩ	±1% ± 2 Digits
DC Voltage	600V dc	0.1mV dc	
AC Voltage	600V ac	0.1mV ac	±1.2% ± 3 Digits
Temperature	+1000 °C, +1832 °F	1 °C, 1 °F	±3% + 8 Digits, ±3% ± 5 Digits
Frequency	60Hz		

Electrical Specifications

Battery Type	IEC 6F22, NEDA 1604, 9V
Safety Category Voltage	600 V, 1000 V

Mechanical Specifications

Dimensions	70 x 48 x 150mm
Width	48mm
Length	70mm
Height	150mm
Weight	255g

Protection Category

Safety Category Level	CAT III
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Approvals

Declarations	RoHS Certificate of Compliance
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Similar Products

Stock No.	Brand	Product Name	Multimeter Type	Functions Measured	Digit Resolution
124-2010	RS PRO	IDM505 Handheld Digital Multimeter With RSCAL calibration	Handheld	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode, Duty Cycle, Frequency, Resistance, Temperature	
161-1629	RS PRO	Handheld Digital Multimeter	Handheld	AC Current, AC Voltage, Capacitance, DC Current, DC Voltage, Frequency, Resistance	

Physical Dimensions / Connection Diagram / Accessories Included

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

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 ± 2 dgts
2.000V	1mV	$\pm 1.0\%$ of rdg ± 2 dgts
20.00V	10mV	
200.0V	100mV	
600V	1V	$\pm 1.2\%$ of rdg ± 2 dgts

Input Impedance: 10M Ω

Maximum Input: 600V dc rms.

AC Voltage (Auto-ranging except 200mV)

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

Input Impedance: 10M Ω

Frequency Range: 50 to 60Hz

Maximum Input: 600V dc/ac rms.

DC Current (Auto-ranging for uA and mA)

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

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

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

AC Current (Auto-ranging for μA and mA)

Range	Resolution	Accuracy
200.0 μA	0.1 μA	$\pm 1.5\%$ of rdg ± 5 dgts
2000 μA	1 μA	$\pm 1.8\%$ of rdg ± 5 dgts
20.00mA	10 μA	
200.0mA	100 μA	
10A	10mA	$\pm 3.0\%$ of rdg ± 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 μA / mA ranges, 10A dc or ac rms on 10A range.

Resistance (Auto-ranging)

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

Input Protection: 250V

Temperature

Range	Resolution	Accuracy
-50 ⁰ C~+1000 ⁰ C	1 ⁰ C	±3% of rdg ±5dgts
-58 ⁰ F~+1832 ⁰ F	1 ⁰ 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 100 Ω ; Test current: <0.3mA

Overload protection: 250V dc or ac rms.

Accessories:

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