

# Datasheet

**RS Stock No: 8937893**

## **RS 12 Digital Multimeter, 600V ac**



### Features

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

## Specifications

Function	Range	Resolution	Accuracy
DC Voltage (V DC)	200mV	0.1mV	$\pm (0.5\% \text{ reading} + 2 \text{ digits})$
	2000mV	1mV	
	20V	0.01V	
	200V	0.1V	$\pm (0.8\% \text{ reading} + 2 \text{ digits})$
	600V	1V	
AC Voltage (V AC)	200V	0.1V	$\pm (1.2\% \text{ reading} + 10 \text{ digits} + 50/60\text{Hz})$
	600V	1V	
DC Current (A DC)	2000 $\mu$ A	1 $\mu$ A	$\pm (1.0\% \text{ reading} + 2 \text{ digits})$
	20mA	10 $\mu$ A	
	200mA	100 $\mu$ A	$\pm (1.2\% \text{ reading} + 2 \text{ digits})$
	10A	10mA	$\pm (2.0\% \text{ reading} + 2 \text{ digits})$

Resistance	200 $\Omega$	0.1 $\Omega$	$\pm (0.8\% \text{ reading} + 2 \text{ digits})$
	2000 $\Omega$	1 $\Omega$	
	20k $\Omega$	0.01k $\Omega$	
	200k $\Omega$	0.1k $\Omega$	
	2000k $\Omega$	1k $\Omega$	$\pm (1.0\% \text{ reading} + 2 \text{ digits})$
Battery Test	9V	10mV	$\pm (1.0\% \text{ reading} + 2 \text{ digits})$
	1.5V	1mV	

**Note:** Accuracy specifications consist of two elements:

- (% reading) – This is the accuracy of the measurement circuit.
- (+ digits) – This is the accuracy of the analogue to digital converter.

Accuracy is stated at 65°F to 83°F (18°C to 28°C) and less than 78% RH.



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### Specifications (continued)

Diode Test: Test current of 1mA maximum, open circuit voltage 2.8V DC typical

Continuity Check: Audible signal will sound if the resistance is less than approximately 30Ω

Battery Test Current: 9V (6mA); 1.5V (100mA)

Input Impedance: >1MΩ

ACV Bandwidth: 45Hz to 450Hz

DCA Voltage Drop: 200mV

Display: 3½ digit, 2000 count LCD, 1.1" digits

Over-range Indication: "1" is displayed

Polarity: Automatic (no indication for positive polarity); Minus (-) sign for negative polarity

Measurement Rate: 2 times per second, nominal

Low Battery Indication: "BAT" is displayed if battery voltage drops below operating voltage

Battery: one 9 volt (NEDA 1604) battery

Fuses: mA, µA ranges; ceramic 0.2A/250V fast blow 5mm x 20mm 10A range; ceramic 10A/250V fast blow 5mm x 20mm

Operating Temperature: 32°F to 122°F (0°C to 50°C)

Absolute Maximum AC Current Measurement: 10V ac

AC Current Measurement Resolution: 10V ac



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### Specifications (Continued)

Storage Temperature: -4°F to 140°F (-20°C to 60°C)

Relative Humidity: <70% operating, <80% storage

Operating Altitude: 7000ft. (2000m) maximum

Weight: 255g

Size: 150mm x 70mm x 48mm

Safety: Indoor use only, Pollution Degree 2, Installation Category III 600V

### Accessories

Test leads, 9V battery, User manual.