

FEATURES

- Integrated flashlight
- Compact and handheld - pocket size
- Digital 3-3/4 digit 4000 count LCD display
- 3-year warranty
- 104 x 55 x 32.5 mm dimension

RS PRO Digital Multimeters -IDM20 Handheld Digital Multimeter

RS Stock No.: 123-1930



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 IDM20 Pocket Digital Multimeter

The RS PRO IDM20 digital multimeter (DMM) is a handheld tool which can measure capacitance, voltage, electrical current and resistance with diode and continuity check. This meter has an LCD display where the measurement readouts can be viewed. There is also a "hold" function available in the compact design making it very user-friendly. The multimeter is also CAT IV rated for 600V and CAT III rated for 1000V.

General Specifications

Model Number (p)	IDM20
Multimeter Type	Handheld
Functions Measured	AC Current, AC Voltage, Capacitance, DC Current, DC Voltage, Resistance
True RMS	NO
Display Type	LCD
Digit Resolution	Digital 3-3/4 digit 4000 count LCD display
Bar graph	33 segments
Operating Temperature (Min to Max)	32°F to 104°F (0°C to 40°C)
Storage Temperature (Min to Max)	14°F to 122°F (-10°C to 50°C)
Diode Test	Yes
Continuity Test	Yes
Auto power off	Yes, Approx. 15 minutes after last operation

Measurement

Type	Absolute Maximum Measurement	Best Accuracy
DC Current	200mA dc	±2 %
AC Current	200mA ac	±2.5 %
Resistance	40MΩ	±0.8 %
DC Voltage	600V dc	±0.5 %
AC Voltage	600V ac	±1.2 %
Capacitance	100μF	
Frequency	100kHz	

Electrical Specifications

Battery Type	AAA
Safety Category Voltage	1000V

Mechanical Specifications

Dimensions	120 x 55 x 40mm
Width	55mm
Length	120mm
Height	40mm
Weight	145g

Protection Category

Safety Category Level	CAT III
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Approvals

Compliance/Certifications	IEC61010-1 CAT IV 600 V / CAT III 1000V CE Approved
Declarations	RoHS Certificate of Compliance

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](#)

Specifications

Electrical specifications

Function	Range	Accuracy
DC Voltage	400mV	$\pm (0.5\% \text{ rdg} + 3\text{d})$
	4.000V, 40.00V, 400.0V, 600V	$\pm (1.2\% \text{ rdg} + 3\text{d})$
AC Voltage 50-60Hz	4.000V, 40.00V	$\pm (1.0\% \text{ rdg} + 8\text{d})$
	400.0V, 600V	$\pm (2.3\% \text{ rdg} + 10\text{d})$
DC Current	400.0 μ A, 4000 μ A	$\pm (2.0\% \text{ rdg} + 8\text{d})$
	40.00mA, 200.0mA	
AC Current 50-60Hz	400.0 μ A, 4000 μ A	$\pm (2.5\% \text{ rdg} + 10\text{d})$
	40.00mA, 200.0mA	
Resistance	400.0 Ω	$\pm (0.8\% \text{ rdg} + 5\text{d})$
	4.000k Ω , 40.00k Ω , 400.0k Ω	$\pm (1.2\% \text{ rdg} + 5\text{d})$
	4.000M Ω	$\pm (5.0\% \text{ rdg} + 5\text{d})$
	40.00M Ω	$\pm (10.0\% \text{ rdg} + 5\text{d})$
Capacitance	4.000nF	$\pm (5.0\% \text{ rdg} + 0.6\text{nF})$
	40.00nF	$\pm (5.0\% \text{ rdg} + 30\text{d})$
	400.0nF	$\pm (3.0\% \text{ rdg} + 15\text{d})$
	4.000 μ F, 40.00 μ F, 200.0 μ F	$\pm (5.0\% \text{ rdg} + 25\text{d})$
Frequency	9.999Hz, 99.999Hz, 999.9Hz, 9.999kHz,	$\pm (2.0\% \text{ rdg} + 5\text{d})$
Duty Cycle	0.5-99%	$\pm (2.0\% \text{ rdg} + 5\text{d})$

Max input voltage	600V AC/DC
Diode Test	Test current 1mA max., open circuit voltage of 1.5V typical
Continuity Check	Audible signal if the resistance is <100 Ω
Display	4000 count 3 -3/4 digit LCD
Over range indication	LCD displays "OL"
Polarity	Minus (-) sign for negative polarity.
Low Battery Indication	"BAT" symbol indicates low battery condition.
Input Impedance	>7.5M Ω (VDC & VAC)
AC Response	Average responding
ACV Bandwidth	50Hz to 60Hz
Auto Power Off	15 minutes (approximately)
Fuse	mA, μ A ranges; 200mA/600V fast acting Resettable Fuse
Batteries supplied	Two 1.5V AAA
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	14°F to 122°F (-10°C to 50°C)
Weight	145g
Size	104x55x32.5mm
Standard	IEC61010-1 CAT IV 600 V / CAT III 1000V CE Approved

Accessories:

Two 1.5V AAA batteries, User manual and integral test leads.