

## FEATURES

- Compact design with soft rubber side grips
- 2000 Counts LCD display
- 6 functions / 14 ranges
- 1000 V ac/dc measurement range
- Integral non-contact AC voltage detector with visual & audible indication (50 V ac to 600 V ac, 50 Hz to 500 Hz)
- Resistance/ Continuity and Diode Test
- Full autoranging with manual override
- Display hold
- Auto-power off
- Conforms to EN61010-1 (safety rating) CAT III 600 V, CAT II 1000 V

# RS PRO Digital Multimeters- IDM61 Handheld Digital Multimeter

RS Stock No.: 123-3237



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 IDM61 Digital Multimeter

IDM61 high-performance pocket multimeter with non-contact voltage detector. This meter is a handheld device 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. RS Pro has a range of digital multimeters which are great value for money and also high quality you can rely on.

## General Specifications

<b>Model Number (p)</b>	<b>IDM61</b>
<b>Multimeter Type</b>	<b>Handheld</b>
<b>Function Measured</b>	<b>AC Voltage, Continuity, DC Voltage, Diode Test, Resistance</b>
<b>True RMS</b>	<b>No</b>
<b>Display Type</b>	<b>LCD</b>
<b>Operating Temperature (Min to Max)</b>	<b>0 to +50°C</b>
<b>Storage Temperature (Min to Max)</b>	<b>-20°C to +60°C</b>
<b>Diode Test</b>	<b>Yes</b>
<b>Continuity Test</b>	<b>Yes</b>
<b>Auto power off</b>	<b>Yes, Approx 10 minutes</b>

## Measurement

Type	Absolute Maximum Measurement	Resolution	Best Accuracy
Resistance	20MΩ	100mΩ	±0.7% + 2 Digits
DC Voltage	1000 V dc	0.1mV dc	±0.5% + 2 Digits
AC Voltage	750V ac	0.1mV ac	±1.5% + 5 Digits

## Electrical Specifications

<b>Battery Type</b>	<b>AAA 1.5 V, AM4, IEC LR03</b>
<b>Battery life</b>	<b>250 h</b>
<b>Safety Category Voltage</b>	<b>600 V, 1000 V</b>

## Mechanical Specifications

<b>Dimensions</b>	<b>74 x 44 x 156mm</b>
<b>Width</b>	<b>44mm</b>
<b>Length</b>	<b>74mm</b>
<b>Height</b>	<b>156mm</b>

<b>Weight</b>	<b>250g</b>
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## Protection Category

<b>Safety Category Level</b>	<b>CAT II, CAT III</b>
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## Approvals

<b>Compliance/Certifications</b>	<b>IEC</b>
<b>Declarations</b>	<b>RoHS Certificate of Compliance</b>

## 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

**DC/AC Voltage**

Range	AC Accuracy
200.0mV	Unspecified
2.0V	$\pm(1.5\%+5\text{dgt})$ 50Hz~300Hz
20V~200V	$\pm(1.5\%+5\text{dgt})$ 50Hz~300Hz
750V AC/1000V DC	

**DC Accuracy:**  $\pm(0.5\% + 2\text{dgt})$ **DCV Resolution:** 0.1mV**ACV Resolution:** 1mV**Overload Protection:** 1000V DC or 750 V AC rms**Input Impedance:** 10M $\Omega$  // < 100pF**Resistance**


Range	Accuracy	Voltage Burden
200.0 $\Omega$ ~ 200.0K $\Omega$	$\pm(0.7\%+3\text{dgt})$	2V max
2.000M $\Omega$	$\pm(1.0\%+3\text{dgt})$	
20.00M $\Omega$	$\pm(1.5\%+3\text{dgt})$	

**Open Circuit Voltage:** -1.3V approx.**Diode & Continuity**

Range	Resolution	Accuracy
9	10mV	$\pm(1.5\%+5\text{dgt})$ For 0.4V ~ 0.8V

**Open Circuit Voltage:** 2V**Max.Test Current:** 1.5mA**Overload Protection:** 600V rms

## General

<b>Sampling Rate:</b>	2 times/sec
<b>Overload Indication:</b>	"OL" or "-OL"
<b>Low Battery Indication:</b>	
<b>Auto Power Off:</b>	Approx. 10 minutes after last operation
<b>Operating Temperature:</b>	0°C~30°C(≤80% R.H.), 30°C~40°C(≤75% R.H.), 40°C~50°C(≤45% R.H.)
<b>Storage Temperature:</b>	-20°C~60°C
<b>Temperature Coefficient:</b>	0.2×(spec. Acc'y)/°C <18°C, >28°C
<b>Safety:</b>	IEC 61010-1: CAT.III 600V, CAT.II 1000V.
<b>Power Requirement:</b>	IEC LR03, AM4 or AAA size 1.5V x 2
<b>Battery Life:</b>	250hours(Alkaline)
<b>Size:</b>	74mm(W)×156mm(L)×44mm(H)
<b>Weight:</b>	320g(Including battery)
<b>Accessories:</b>	Battery (installed), Test Leads and User Manual.