

## FEATURES

- Multimeter with a 4000 Counts LCD display
- 8 functions / 30 ranges
- 600 V &  $\mu$ A AC-DC measurement ranges
- Volt Sense: Integral non-contact AC voltage detector with a visual and audible indication
- Resistance/Continuity and Diode Test
- Capacitance, Frequency counter and duty cycle
- Selectable manual /auto-ranging
- Display HOLD
- Auto-power off
- Conforms to EN61010-1 (safety rating) CAT III 300 V, CAT II 600 V

# RS PRO Digital Multimeters- IDM5A Handheld Digital Multimeter

RS Stock No.: 123-3251



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 IDM5A Digital Wallet Multimeter

RS PRO IDM5A all new card type digital multimeter. These handheld devices 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.

### General Specifications

Model Number (p)	IDM5A
Multimeter Type	Handheld
Functions Measured	AC Current, AC Voltage, Capacitance, Conductance, DC Current, DC Voltage, Diode, Frequency, Resistance, RMS, Temperature
True RMS	No
Display Type	LCD
Operating Temperature (Min to Max)	0°C to +50°C
Storage Temperature (Min to Max)	-20 to +60°C, 0 to 80% RH (batteries not fitted).
Diode Test	Yes
Continuity Test	Yes
Auto power off	Yes

### Measurement

Type	Absolute Maximum Measurement	Resolution	Best Accuracy
DC Current	4mA dc	0.1µA	±0.9% + 5 Digits
AC Current	4mA ac	0.1µA	±0.9% + 5 Digits
Resistance	40MΩ	100mΩ	±0.9% + 2 Digits
DC Voltage	600V dc	0.1mV dc	±0.6% + 2 Digits
AC Voltage	600V ac	0.1mV ac	±0.9% + 5 Digits
Capacitance	400µF	0.01nF	±2.9% + 5 Digits
Frequency	40kHz		

### Electrical Specifications

Battery Type	LR44 1.5 V
Battery life	100 h
Safety Category Voltage	300 V, 600 V

## Mechanical Specifications

<b>Dimensions</b>	56 x 12 x 112mm
<b>Width</b>	12mm
<b>Length</b>	56mm
<b>Height</b>	112mm
<b>Weight</b>	100g

## Protection Category

<b>Safety Category Level</b>	CAT II, CAT III
------------------------------	-----------------

## Approvals

<b>Compliance/Certifications</b>	IEC
<b>Declarations</b>	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:** (All at 23°C ±5°C, ≤80% R.H.)

## DC/AC Voltage

Range	Input Impedance	Overload Protection	Accuracy
400.0mV~600V DC	10MΩ	600V	±(0.6%+2dgt)
400.0mV~600V AC	10MΩ// < 100pF	600V rms	±(0.9%+5dgt) 50Hz~500Hz

**Resolution:** 0.1mV

**Conversion Type:** Average sensing RMS indicating

## DC/AC Current

Range	DC Accuracy	AC Accuracy
400.0μA, 4000μA	±(0.9%+5dgt)	±(0.9%+5dgt) 50Hz~500Hz

**Resolution:** 0.1μA

**Input Protection:** 600V or 600V rms

**Conversion Type:** Average sensing RMS indicating

## Resistance

Range	Accuracy
400Ω~40.00MΩ	±(0.9% + 2dgt)

**Resolution:** 0.1Ω

**Overload Protection:** 600V rms

## Diode & Continuity

**Continuity Beeper :** <30Ω, 2KHz tone buzzer

**Open circuit Voltage :** 1.5V

## Frequency

Range	Accuracy	Resolution
40Hz~4MHz	±(0.3% + 5dgt)	1Hz

**Overload Protection:** 600V rms

## Duty Cycle

Range	Accuracy	Resolution
0.1%~99.9%	±(0.5% + 3dgt)	0.1%


**Overload Protection:** 600V rms

## Capacitance

Range	Accuracy	Resolution
40nF~4mF	±(2.9% + 5dgt)	0.01nF

**Overload Protection:** 600V rms

### General

<b>Sampling Rate:</b>	3 times/sec
<b>Overload Indication:</b>	"OL" or "OL"
<b>Low Battery Indication:</b>	
<b>Auto Power Off:</b>	Approx 20 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 300V, CAT.II 600V
<b>Power Requirement:</b>	LR44 Button size 1.5V ×2 battery
<b>Battery Life:</b>	100hours
<b>Size:</b>	56mm(W)×112mm(L)×12mm(H)
<b>Weight:</b>	100g
<b>Accessories:</b>	Battery (installed), Integral Test Leads, Manual and Deluxe Carrying Wallet