

FEATURES

- Multimeter with a 4000 Counts LCD display
- 8 functions / 30 ranges
- 600 V & μ 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, DC Current, DC Voltage, Diode, Frequency, Resistance
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

Dimensions	56 x 12 x 112mm
Width	12mm
Length	56mm
Height	112mm
Weight	100g

Protection Category

Safety Category Level	CAT II, CAT III
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Approvals

Compliance/Certifications	IEC
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: (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

Sampling Rate:	3 times/sec
Overload Indication:	"OL" or "OL"
Low Battery Indication:	
Auto Power Off:	Approx 20 minutes after last operation
Operating Temperature:	0°C~30°C(≤80% R.H.), 30°C~40°C(≤75% R.H.), 40°C~50°C(≤45% R.H.)
Storage Temperature:	-20°C~60°C
Temperature Coefficient:	0.2×(spec. Acc'y)/°C <18°C, >28°C
Safety:	IEC 61010-1: CAT.III 300V, CAT.II 600V
Power Requirement:	LR44 Button size 1.5V ×2 battery
Battery Life:	100hours
Size:	56mm(W)×112mm(L)×12mm(H)
Weight:	100g
Accessories:	Battery (installed), Integral Test Leads, Manual and Deluxe Carrying Wallet