

## FEATURES

- Handy and compact housing
- Large-scale display
- 6000 display count
- DCA  $\mu$ A
- Data Hold
- Min / Max function
- Frequency Counter
- Capacitance Measurement
- Auto Power Off
- Shock resistant (1 m drop)
- Protective Holster with a tilt stand and lead storage
- Large-scale display
- True RMS reading on AC mode
- DCA  $\mu$ A, A
- ACA A (True RMS)
- Optional RS-232 interface and software

# RS PRO Digital Multimeters- IDM73 Handheld Digital Multimeter

RS Stock No.: 123-3243



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 IDM73 Digital Multimeter

The RS PRO IDM73 is a compact, rugged and high performing 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. The highest measuring category allows measurements direct at the source of the low voltage installation. Features optical interface for transmitting measuring results to PCs.

## General Specifications

<b>Model Numbe</b>	<b>IDM73</b>
<b>Multimeter Type</b>	<b>Handheld</b>
<b>True RMS</b>	<b>Yes</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
DC Current	10A dc	0.1µA	±1% + 2 Digits
AC Current	10A ac	0.1µA	±1.5% + 5 Digits
Resistance	60MΩ	100mΩ	±0.7% + 2 Digits
DC Voltage	1000V dc	0.1mV dc	±0.5% + 2 Digits
AC Voltage	750V ac	0.1mV ac	±0.9% + 5 Digits
Capacitance	6mF	1pF	±1.9% + 8 Digits
Frequency	60MHz		

## Electrical Specifications

<b>Battery Type</b>	<b>IEC 6F22, NEDA 1604, 9V</b>
<b>Battery life</b>	<b>300 h</b>
<b>Safety Category Voltage</b>	<b>600 V, 1000 V</b>

## Mechanical Specifications

<b>Dimensions</b>	<b>82 x 44 x 164mm</b>
<b>Width</b>	<b>44mm</b>
<b>Length</b>	<b>82mm</b>
<b>Height</b>	<b>164mm</b>
<b>Weight</b>	<b>400g</b>

## Protection Category

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

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

## Similar Products

<b>Stock No.</b>	<b>Brand</b>	<b>Product Name</b>	<b>Multimeter Type</b>	<b>Functions Measured</b>	<b>Digit Resolution</b>
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	Input Impedance	Accuracy
600.0mV DC~1000V DC	10MΩ	±(0.5%+2dgt)
600.0mV AC~750V AC	10MΩ// < 100pF	±(0.9%+5dgt) 50Hz~500Hz

**Resolution:** 0.1mV

**Overload Protection:** DC 1000V or AC 750V rms

**Conversion Type:** Average sensing True-RMS indicating

## DC/AC Current

Range	DC Accuracy	AC Accuracy	Voltage Burden
600.0μA	±(1%+2dgt)	N/A	<4mV /μA
6000μA			
6A		±(1.5%+5dgt) 50Hz~500Hz	2V max
10A			

**Overload Protection:** 10A/600V for μA input

600V rms for A input

## Resistance

Range	Accuracy
600.0Ω	±(0.7%+2dgt)
6.000KΩ	
60.00KΩ	
600.0KΩ	
6.000MΩ	±(1%+2dgt)
60.00MΩ	±(1.5%+2dgt)

**Resolution:** 0.1Ω

**Overload Protection:** 600V rms

**Open Circuit Voltage:** -1.3V approx.

## Diode & Continuity

**Continuity Beeper:** <100Ω, 2KHz tone buzzer

**Open Circuit Voltage:** 3V max

**Test Current:** 1.5mA max

## Frequency

Range	Sensitivity	Accuracy
6KHz	100mV rms	±(0.1%+1dgt)
60KHz		
600KHz		
6MHz	250mV rms	
60MHz	1V rms	

Resolution: 1Hz


Overload Protection: 600V rms

## Capacitance

Range	Accuracy
6.000nF	±(1.9% + 8dgt)
60.00nF	
600.0nF	
6.000µF	
60.00µF	
600.0µF	
6.0mF	

Overload Protection: 600V rms

## General

Sampling Rate:	1.5 times/sec
Overload Indication:	"OL" or "-OL"
Low Battery Indication:	
Auto Power Off:	Approx. 10 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.IV 600V/CAT.III 1000V
Power Requirement:	Two 1.5V Alkaline type AAA batteries
Battery Life:	300 hours(Alkaline)
Size:	76mm(W)×158mm(L)×38mm(H), without holster 82mm(W)×164mm(L)×44mm(H), with holster
Weight:	400g with holster
Accessories:	Battery (installed), Test Leads, Protective Holster and User Manual