

FEATURES

- Compact design with soft rubber side grips
- 2000 Counts LCD display
- 11 functions / 32 ranges
- 750 V ac/dc measurement range
- 10 A ac/dc measurement range
- Integral non-contact AC voltage detector with a visual and audible indication (50 V ac to 600 V ac, 50 Hz to 500 Hz)
- -20°C to 800°C type K temperature measurement input and sensor
- 20 MHz frequency counter
- 2 mF capacitance range
- Resistance/ Continuity and Diode Test
- Full auto-ranging with manual override
- MIN/Max & Display HOLD
- Auto-power off
- Conforms to EN61010-1 (safety rating) CAT III 600 V, CAT II 1000 V

RS PRO Digital Multimeters- IDM62T Handheld Digital Multimeter

RS Stock No.: 123-3238



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 IDM62T Digital Multimeter

IDM62T pocket digital multimeter with a non-contact voltage detector. 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

Multimeter Type	Handheld
Function Measured	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Frequency, Resistance, Temperature
True RMS	No
Display Type	LCD
Operating Temperature (Min to Max)	0 to +50°C
Storage Temperature (Min to Max)	-20°C to +60°C
Diode Test	Yes
Continuity Test	Yes
Auto power off	Yes, Approx 30 minutes
Optical isolated interface output	RS232

Measurement

Type	Absolute Maximum Measurement	Resolution	Best Accuracy
DC Current	10A dc	1mA	±1% + 3 Digits
AC Current	10A ac	1mA	±1.5% + 5 Digits
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
Capacitance	2mF	1pF	±1.9% + 8 Digits
Frequency	20 MHz		

Electrical Specifications

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

Mechanical Specifications

Dimensions	74 x 44 x 156mm
Width	44mm
Length	74mm
Height	156mm
Weight	250g

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	Resolution	Accuracy
200.0mV~1000V DC	10MΩ	1000V	0.1mV	±(0.5%+2dgt)
200.0mV~750V AC	10MΩ// < 100pF	750V rms	1mV	±(1.5%+5dgt) 50Hz~500Hz

Conversion Type: Average sensing RMS indicating

DC/AC Current

Range	DC Accuracy	AC Accuracy	Voltage Burden
2.0A	±(1.0%+3dgt)	±(1.5%+5dgt)	2V max
10.0A **		50Hz~500Hz *	

Overload Protection:

A input : 10A (500V) fast blow fuse

* **AC Conversion Type:** Conversion type and additional specification are same as DC/AC Voltage.

** Ampere Testing Duty Ratio Table

Ampere	Testing Time	Rest Time
10A	4min	10min
9A	5min	10min
8A	7min	10min
7A	10min	10min
6A	Continually	N/A

Resistance

Range	Accuracy	Voltage Burden
200.0Ω~ 200.0KΩ	±(0.7%+3dgt)	2V max
2.000MΩ	±(1.0%+3dgt)	
20.00MΩ	±(1.5%+3dgt)	

Open Circuit Voltage: -1.3V approx.

Diode & Continuity

Range	Resolution	Accuracy
9	10mV	±(1.5%+ 5dgt) For 0.4V ~ 0.8V

Open Circuit Voltage: 2V

Max.Test Current: 1.5mA

Overload Protection: 600V rms

Frequency

Range	Sensitivity
2000Hz~200.0KHz	>1.5Vac rms, <5Vac rms
2.0MHz~20MHz	>2Vac rms, <5Vac rms

Overload Protection: 600V rms

Accuracy: $\pm(0.01\% + 1\text{dgt})$

Minimum Pulse Width: >25 ns

Duty Cycle Limits: >30% and <70%

Capacitance

Range	Accuracy
2nF~200 μ F	$\pm(1.9\%+8\text{dgt})$
2.00mF*	

*< 10 dgt of reading rolling

Overload protection: 600 V rms

Temperature($^{\circ}$ C)

Range	Accuracy
-20 $^{\circ}$ C~0 $^{\circ}$ C	$\pm(2\%+4^{\circ}\text{C})$
1 $^{\circ}$ C~100 $^{\circ}$ C	$\pm(1\%+3^{\circ}\text{C})$
101 $^{\circ}$ C~500 $^{\circ}$ C	$\pm(2\%+3^{\circ}\text{C})$
501 $^{\circ}$ C~800 $^{\circ}$ C	$\pm(3\%+2^{\circ}\text{C})$


Overload protection: 600 V rms

Temperature($^{\circ}$ F)

Range	Accuracy
-4 $^{\circ}$ F~32 $^{\circ}$ F	$\pm(2\%+8^{\circ}\text{F})$
33 $^{\circ}$ F~212 $^{\circ}$ F	$\pm(1\%+6^{\circ}\text{F})$
213 $^{\circ}$ F~932 $^{\circ}$ F	$\pm(2\%+6^{\circ}\text{F})$
933 $^{\circ}$ F~1472 $^{\circ}$ F	$\pm(3\%+4^{\circ}\text{F})$

Overload Protection: 600V rms

General

Sampling Rate:	2 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.III 600V, CAT.II 1000V
Power Requirement:	IEC LR03, AM4 or AAA size 1.5V x 2
Battery Life:	250hours(Alkaline)
Size:	74mm(W)×156mm(L)×44mm(H)
Weight:	250g(Including battery)
Accessories:	Battery (installed), Test Leads, User Manual, Temp. Adaptor and Bead Probe