



ENGLISH

Datasheet

Stock No. 123-3238

RS PRO IDM 62T Digital Multimeter



Feature:

- 2000 count large scale digital display
- Autoranging and manual selection ACV, DCV, Ohm, Continuity and Diode function
- 0.5% basic DCV accuracy
- Data hold
- VoltSense™ feature (None contact voltage detection)
- Auto power off (Disable)
- 10Amp ACA/DCA range
- MAX/MIN function key
- Frequency counter
- Capacitor measurement
- Shock proof from 4 feet drops
- Probe holder and tilt stand

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	$\pm(2\%+4^{\circ}$ C)
1 $^{\circ}$ C~100 $^{\circ}$ C	$\pm(1\%+3^{\circ}$ C)
101 $^{\circ}$ C~500 $^{\circ}$ C	$\pm(2\%+3^{\circ}$ C)
501 $^{\circ}$ C~800 $^{\circ}$ C	$\pm(3\%+2^{\circ}$ C)


Overload protection: 600 V rms

Temperature($^{\circ}$ F)

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