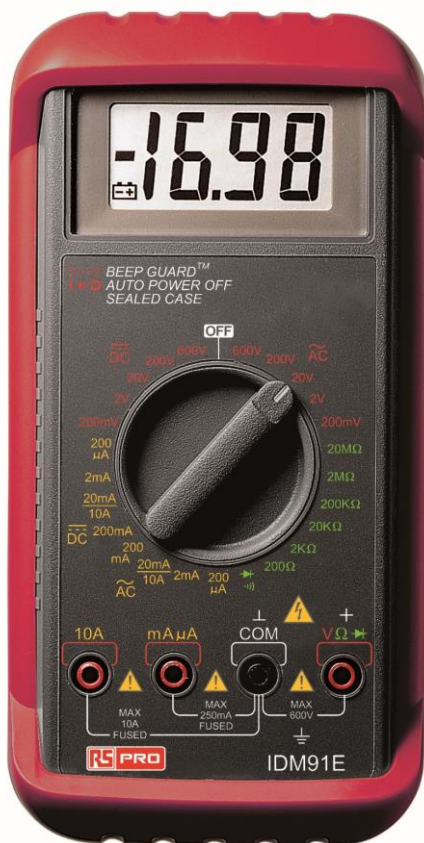




ENGLISH

Datasheet
Stock No. 123-3244
RS PRO IDM 91E Digital Multimeter



Feature:

- 3 1/2 digital 0.8" large scale LCD
- 0.5% basic DCV accuracy
- 1.3% basic ACV accuracy
- 1.0% basic DCA accuracy
- 1.5% basic ACA accuracy
- 0.75% basic Ohms accuracy
- Continuity and Diode test
- 500V dual fuses protection
- Auto power off
- Beep Guard™ warning system
- Water Resistant rating IP 64
- 5 feet drop proof
- Protective holster with tilt stand
- CAT.III 300V/CAT.II 600V Safety standard

Specifications: (All at 23°C ±5°C, ≤80% R.H.)

DC Voltage

Range	Resolution	Accuracy	Over Voltage Protection
200mV	100µV	±(0.5%+1dgt)	600V DC/AC rms
2.00V	1mV		
20.0V	10mV		
200V	100mV		
600V	1V		

Input Impedance: 10MΩ

AC Voltage

Range	Resolution	Accuracy	Over Voltage Protection
200mV	100µV	±(1.25%+4dgt) 40Hz~500Hz	600V DC/AC rms
2.00V	1mV		
20.0V	10mV		
200V	100mV		
600V	1V		

Input Impedance: 10MΩ// < 100pF

Conversion Type: Average sensing RMS indicating

DC Current

Range	Resolution	Accuracy	Voltage Burden
200µA	0.1µA	±(1%+1dgt)	600mV max
2.00mA	1µA		
20.0mA	10µA		
200mA	100µA		
10A	10mA	±(2%+3dgt)	900mV max

20A for 30 seconds

Overload Protection: 1A/415V fast blow fuses for mA, µA input

10A/415V fast blow fuses for 10A input

AC Current

Range	Resolution	Accuracy	Voltage Burden
200 μ A	0.1 μ A	$\pm(1.5\%+3\text{dgt})$ 40Hz~500HZ	600mV max
2.00mA	1 μ A		
20.0mA	10 μ A		
200mA	100 μ A	$\pm(2.5\%+3\text{dgt})$ 40Hz~500HZ	900mV max
10A	10mA		

Overload Protection: 1A/415V fast blow fuses for mA, μ A input

10A/415V fast blow fuses for 10A input

Resistance

Range	Resolution	Accuracy	Max Test Current	Max Open Circuit Voltage
200 Ω	0.1 Ω	$\pm(0.75\% + 4\text{dgt})$	2.5mA	3.2V
2K Ω	1 Ω	$\pm(0.75\% + 1\text{dgt})$	200 μ A	0.5V
20K Ω	10 Ω		40 μ A	
200K Ω	100 Ω		4 μ A	
2M Ω	1K Ω		400nA	
20M Ω	10K Ω	$\pm(1.5\% + 5\text{dgt})$	40nA	

Overload Protection: 500 V DC/AC rms

Diode & Continuity


Continuity Beeper: <50 Ω , 2KHz tone buzzer

Test Current: 1.5mA max

Overload Protection: 500 V DC/AC rms

Open Circuit Voltage: 3.2V max

General

Sampling Rate:	2.5 times/sec
Overload Indication:	"1" or "-1"
Low Battery Indication:	
Auto Power Off:	Approx. 30 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:	0.15×(spec. Acc'y)/°C <18°C, >28°C
Safety:	IEC 61010-1: CAT.III 300V, CAT.II 600V
Power Requirement:	Single 9V battery (NEDA 1604 or IEC 6F22)
Battery Life:	300 hours(Alkaline)
Size:	84mm(W)×175mm(L)×31mm(H), without holster 95mm(W)×192mm(L)×50mm(H), with holster
Weight:	550g(Including holster)
Accessories:	Battery (installed), Test Leads and User Manual