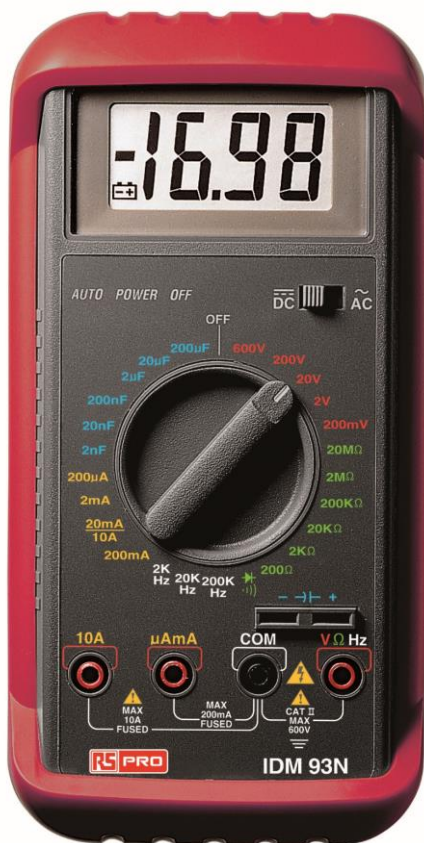




ENGLISH

Datasheet
Stock No. 123-3245
RS PRO IDM 93N 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
- 1.0% Frequency accuracy
- 2.0% Capacitance accuracy
- Continuity and Diode test
- 600V protection in non-current ranges
- 500V dual fuses protection
- Auto power off
- 5 feet drop proof
- Protective holster with tilt stand
- CAT.III 600V/CAT.II 1000V 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	±(1.3%+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

Conversion Type: Average sensing RMS indicating

AC Current

Range	Resolution	Accuracy	Voltage Burden
200μA	0.1μA	±(1.5%+3dgt) 40Hz~500Hz	600mV max
2.00mA	1μA		
20.0mA	10μA		
200mA	100μA	±(2.5%+7dgt) 40Hz~500Hz	900mV max
10A	10mA		

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

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

Resistance

Range	Resolution	Accuracy	Max Test Current	Max Open Circuit Voltage
200Ω	0.1Ω	±(0.8% + 4dgt)	2.5mA	3.2V
2KΩ	1Ω	±(0.8% + 1dgt)	200μA	0.5V
20KΩ	10Ω		40μA	
200KΩ	100Ω		4μA	
2MΩ	1KΩ		400nA	
20MΩ	10KΩ	±(1.5% + 5dgt)	40nA	

Overload Protection: 600V DC/AC max

Diode & Continuity

Continuity Beeper: <50Ω, 2KHz tone buzzer

Test Current: 1.5mA max

Overload Protection: 600 V DC/AC rms

Open Circuit Voltage: 3.2V max

Frequency


Range	Resolution	Accuracy 5V rms Max	Sensitivity	Min Input Frequency
2KHz	1Hz	±(1%+3dgt)	200mV rms min	20Hz
20KHz	10Hz			200Hz
200KHz	100Hz			20KHz

Overload Protection: 600V DC/AC rms

Capacitance

Range	Resolution	Accuracy	Test Frequency
2nF	1pF	±(1.9%+5dgt)	40Hz
20nF	10pF		
200nF	100pF		
2μF	1pF		
20μF	10pF		
200μF	100pF		

General

Sampling Rate:	2times/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.II 600V/CAT.III 300V
Power Requirement:	Two 1.5V Alkaline type AAA batteries
Battery Life:	150 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