



ENGLISH

Datasheet

Stock No. 123-3236

RS PRO IDM 106N Digital Multimeter



Feature:

- 4000 count large scale display
- 86 segment analog bargraph
- LED backlit
- Auto power off
- Overload protection
- 0.1% basic DCV accuracy
- 1.0% basic ACV accuracy
- 0.4% basic DCA accuracy
- 1.3% basic ACA accuracy
- 0.4% basic Ohms accuracy
- True-RMS
- Data hold
- Relative mode
- Min/Max function
- Peak hold
- Temperature measurement
- Data acquisition and analysis
- Continuity beeper
- Open communication protocol
- Optical RS232 interface
- APPA WinDMM 100J software
- Water/ Dust Resistant
- Full accessories included
- Probe holder and tilt stand
- Protective holster
- Carrying case included
- CAT.III 600V/CAT.II1000V Safety standard

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

DC Voltage

Range	Accuracy	Over Voltage Protection
400mV	±(0.3%+2dgt)	1000V rms
4.00V	±(0.1%+2dgt)	
40.0V		
400V		
1000V		

Input Impedance: 10MΩ

AC Voltage

Range	Accuracy	Over Voltage Protection
400mV	±(2%+8dgt) 50Hz~60Hz	1000V rms
4.00V	±(1.5%+5dgt)	
40.0V	40Hz~60Hz	
400V	±(1.5%+5dgt)	
1000V	61Hz~1KHz	

Input Impedance: < 100pF

Conversion Type: Average sensing True-RMS indicating

DC Current

Range	Accuracy	Voltage Burden
40mA	±(0.4%+2dgt)	300mV max
400mA	±(0.5%+2dgt)	3V max
10A	±(1.0%+3dgt)	3V max

AC Current

Range	Accuracy	Voltage Burden
40mA	±(1.5%+5dgt)	300mV max
400mA	40Hz~1KHz	3V max
10A	±(2.0%+5dgt) 40Hz~1K Hz	3V max

Overload Protection: 1A/600V fast blow fuses for mA input

10A/600V fast blow fuses for A input

Conversion Type: Average sensing True-RMS indicating

Resistance

Range	Accuracy
400Ω	±(0.7% + 3dgt)
4KΩ	±(0.4% + 2dgt)
40KΩ	
400KΩ	
4MΩ	±(0.6% + 3dgt)
40MΩ	±(1.5% + 5dgt)

Open Circuit Voltage: -1.3V approx.

Diode & Continuity

Continuity Beeper: <30Ω, 2KHz tone buzzer

Test Current: 1.5mA max

Open Circuit Voltage: 3V max

Frequency/RPM

Range	Sensitivity	Accuracy
4KHz/40KRPM	150mV rms	Frequency: 0.01%±1dgt RPM: 0.01%±10dgt
40KHz/400KRPM	>20HZ	
400KHz/4MRPM	1.5V rms ≤20Hz	
4MHz/40MRPM	300mV rms	
40MHz/400MRPM	1V rms	
400MHz/4000MRPM	Not guarnty	

Overload Protection: 600V rms

Capacitance

Range	Accuracy	Overload Protection
4nF	±(3%+10dgt)	600V rms
40nF		
400nF	±(2%+8dgt)	
4μF		
40μF		
400μF		
4mF	±(5%+20dgt)	
40mF		

Overload Protection: 600V rms


Temperature(°C)

Range	Accuracy	Overload Protection
-20°C~0°C	±(2% reading +4°C)	600V rms
1°C~100°C	±(1% reading +3°C)	
101°C~500°C	±(2% reading +3°C)	
501°C~800°C	±(3% reading +2°C)	

Temperature(°F)

Range	Accuracy	Overload Protection
-4°F~32°F	±(2% reading +8°F)	600V rms
33°F~212°F	±(1% reading +6°F)	
213°F~932°F	±(2% reading +6°F)	
933°F~1472°F	±(3% reading +4°F)	

General

Sampling Rate:	2 times/sec for digit, 12 times/sec for analog
Overload Indication:	"OL" or "- OL"
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.IV 600V/CAT.III 1000V
Power Requirement:	Single 9V battery (NEDA 1604 or IEC 6F22)
Battery Life:	300 hours(Alkaline)
Size:	90mm(W)×200mm(L)×42mm(H), without holster 100mm(W)×212mm(L)×55mm(H), with holster
Weight:	620g with holster
Accessories:	Battery (installed), Test Leads, Test Clips, Protective Holster and User Manual