

4³/₄ Digit 42 Segment High End Multimeter

FEATURES

- 4 ³/₄ Dual Digit Display with EL Back Light for Night operation
- 42 Segment Analog Bar Graph Display with ZOOM Analog Graph and center Zero Graph
- Select 20000 count or 4000 count for Resolution
- Auto Range and Manual Range for Fast Readings
- Frequency Counter up to 1MHz
- Capacitance Measurement
- Temperature Measurement
- Auto Hold / Peak Hold
- Auto Fuse Detector
- Beep Guard
- Continuity Beeper
- Data Logger up to 6000 records
- Diode Test
- Hazard Warning
- Max- Min- Avg
- Δ Mode
- Low Voltage Ohms
- True RMS (AC, AC+DC)
- VAC / Hz / Dual Display
- dBm/dB (600 Ohms for dBm)
- 600V High Voltage Fuse
- Peak Hold Circuit (0.5ms)
- Self Calibration
- Store Recall up to 1000 Memories
- Auto Power Off
- Protective Holster
- Optically Isolated RS232
- Overload Protection
- Temp Adaptor
- Meeting IEC1010-1, UL3111-1, CSA EN55011 Class A
- Water / Dust Resistant (IP64 Rating)



Aplab-APPA multimeter 107N is designed for harsh environments with water tight gaskets at the seams, rotary switch, input terminals, and battery cover. This keeps dust, dirt and splashing out. It is provided with extra protective holster with built in stand for comfortable view and test lead storage. This holster provides an extra degree of protection and convenience for your meter. This meter is ergonomically designed with comfort grip for test leads safety shrouded full sleeve right angle plug and hard alloy tips for long life. Excellent protection with high energy fuse, spark gaps and PTC with fusible resistors. The unique rotary switch with durable engineering plastic and beryllium copper contacts plated with gold plated circuit boards will provide years of trouble free use.

Technical Specification

	Ranges	Accuracy
DCV	20mV	±0.06% +60d
	200mV	±0.06% +20d
	2V	±0.06% +10d
	20V	±0.06% +10d
	200V	±0.06% +10d
	1000V	±0.06% +10d
ACV (40Hz to 100Hz)	20mV	±0.7% +80d
	200mV	±0.7% +80d
	2V	±0.7% +50d
	20V	±0.7% +50d
	200V	±0.7% +50d
	750V	±0.7% +50d
Bandwidth	40Hz to 50KHz typical.	
Resolution	1µV in 20mV range.	
I/P Impedance	10MΩ <100pF.	
DCA	20mA	±0.2% +40d
	200mA	±0.2% +40d
	2A	±0.2% +40d
	10A	±0.2% +40d
ACA (40Hz to 500Hz)	20mA	±0.8% +50d
	200mA	±0.8% +50d
	2A	±0.8% +50d
	10A	±0.8% +50d
Bandwidth	40Hz to 3KHz.	
Resolution	1µA in 40mA range.	
Resistance Ω	200Ω	±0.3% +30d
	2KΩ	±0.3% +30d
	20KΩ	±0.3% +30d
	200KΩ	±0.3% +30d
	2MΩ	±0.3% +30d
	20MΩ	±5.0% +30d
	200MΩ	±5% +20d
	2GΩ	±5% +8d
Resolution	0.01Ω	
Input Protection	600V rms.	
Continuity Tester	50Ω Threshold 2KHz Tone Buzzer.	
Indicative Buzzer	Yes.	
Diode Test	Test current 1.1mA Open Circuit Voltage : 3.3V.	
Capacitance	4nF	±1.5% +10d
	40nF	±1.5% +10d
	400nF	±0.9% +5d
	4µF	±0.9% +5d
	40µF	±1.2% +5d
	400µF	±1.2% +5d
	4mF	±1.5% +5d
	40mF	±1.5% +5d

Resolution	1pF on Basic Range.	
Basic Accuracy	±0.9%.	
Input Protection	600Vrms.	
Frequency Counter (Duty Factor 20% to 80%)	20Hz	±0.01% +50
	200Hz	±0.01% +10
	2KHz	±0.01% +10
	20KHz	±0.01% +10
	200KHz	±0.01% +10
1MHz	±0.01% +10	
Sensitivity	0.5V p-p for 5Hz to 1MHz.	
Resolution	0.01Hz on basic range.	
Input Protection	600V rms.	
Temperature Measurement	-100°C to +1200°C	±0.1% +3°C
	-200°C to -100°C	±0.1% +6°C.
Resolution	0.1°C.	
General		
Beep Guard.		
Overrang Indicator OL.		
Continuity Beeper.		
dBm/dB readings with selectable Ref. Impedance.		
Holster Stand	Yes.	
Self Calibration	Yes.	
Auto Power Off	User Selectable upto 30 Mins.	
RS-232 Connectivity (Optical)	Yes.	
Software for PC connectivity	APPA WIN DMM 100 Software (optional).	
Operating Temperature	0°C to 50°C.	
Storage Temp	-20°C to +60°C.	
Relative Humidity	0% to 80%.	
Battery Life (Alkaline)	100 Hrs.	
Power Requirement	Single 9V battery (NEDA1604 or IEC6F22).	
Data Logger Records	6000 records.	
Protective Holster	Yes.	
Weight	620 gms.	
Size	86 x 185 x 31.5 mm (without Holster) and 98 x 197 x 50 mm (with Holster).	
Accessories Optional	RS-232 cable and APPA WIN DMM 100 Software.	
Accessories	Protective Holster, Test Leads, Test Clips, Temp Adaptor, Bead Sensor, Alkaline Battery (Installed) and Manual.	



Test & Measurement Instruments Division

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