



**TRMS Digital**  
**Thoughest**  
**Multimeters**  
**APPA 109N**

**Key Functions**

- 20000/4000 count display
- 83 Segment Analog Bargraph
- Zoom Analog Bargraph
- Center Zero Analog Bargraph
- Self-Calibration
- **True RMS reading on AC**
- Auto Hold
- Relative Mode
- Min/Max/Avg Function
- Peak Hold
- **Store, Recall Function**
- **Optional USB cable and WinDMM Software**

**General Information**

- Auto Power Off
- Auto Fuse Detector
- Beep Guard
- Data logging capability
- dB/dBm Measurement
- Continuity Beeper
- Low Voltage Ohms
- Water/Dust Resistant
- CAT.III 600V/CAT. II 1000V safety standard

Technical Data		
Display 4 1/2 Digital, LCD, 19999 Digits, 83 Segment Analog Bargraph		
Voltage AC	Range	400.0mV~750V(40Hz~100kHz)
	Basic Accuracy	±(0.7%+5d)
Voltage DC	Range	400.0mV~1000V
	Basic Accuracy	±(0.06%+10d)
Current AC	Range	40.00mA~10A(40Hz~3kHz)
	Basic Accuracy	±(0.8%+50d)
Current DC	Range	40.00mA~10A
	Basic Accuracy	±(0.2%+40d)
Resistance	Range	400.0Ω~40.00MΩ
	Basic Accuracy:	±(0.3%+30d)
Continuity Beeper	Threshold	<150Ω, 2KHz tone buzzer
Diode Test	Open circuit Voltage	3.3V
Capacitance	Range	4.000nF~10mF
	Basic Accuracy:	±(0.9%+5d)
Frequency Counter	Range	20.00Hz~1MHz
	Basic Accuracy:	±(0.01%+10d)
Duty Factor	Range	20%~80%
	Basic Accuracy:	±1%
Temperature	Range	-200 ~1200
	Basic Accuracy:	±(0.1%+3 ) at -100 ~1200
Sampling Rate	2~4times/sec	
Operating Temperature	-20 ~ 50 , <80% RH	
Storage Temperature	-20 ~ 60	
Safety	IEC61010 and designed to meet UL61010 specifications	
Power Requirement	IEC 6LF22, 6AM6 or NEDA 1604A 9V x1	
Size	98mm (W) x 197mm (L) x 50mm (H) with holster	
Weight	620 g	
Included with Instrument	Protective holster, test leads, test clips, ZnC battery(Installed), manual, Optical RS-232 cableand WinDMM 100S	
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