ALL NEW
APPA 100 Series
The Toughest Multimeters

APPA 100 SERIES MULTIMETERS FEATURES:

	APPA 103N	APPA 105N	APPA 106	APPA 107	APPA 109
Main Display	4000 count	4000 count	4000 count	20000/4000 count	20000/4000count
Dual Digital Display	NA	NA	NA	•	•
Analog Bargraph Display	82 segment	82 segment	82 segment	83 segment	83 segment
Zoom Analog Bargraph	NA	NA	NA	•	•
Center Zero Analog Bargraph	NA	NA	NA	•	•
Self-Calibration	NA	NA	NA	•	•
True RMS	NA	NA	True RMS	AC+DC True RMS	AC+DC True RMS
Data Hold	•	•	•	NA	NA
Auto Hold	NA	NA	NA	•	•
Relative Mode	NA	•	•	•	•
Min/Max/Avg Function	NA	•	•	•	•
Peak Hold	NA	•	•	•	•
Store, Recall Function	NA	NA	NA	Up to 1000 records	Up to 1000 records
°C/°F Temperature Test	NA	NA	•	•	•
Auto Fuse Detector	NA	NA	NA	•	•
Beep Guard	NA	NA	NA	•	•
RS - 232 Cable	OPTION	OPTION	OPTION	OPTION	INCLUDED
WinDMM 100J software	OPTION	OPTION	OPTION	NA	NA
WinDMM 100 software	NA	NA	NA	OPTION	INCLUDED
Data logger records	NA	NA	NA	6,000 records	40,000 records
dBm/ dB measurment	NA	NA	NA	•	•
Continuity Check/Beeper	•	•	•	•	•
Low Voltage Ohms	NA	NA	NA	•	•
Backlight	•	•	•	•	•
Open Communication Protocol	•	•	•	•	•
Water / Dust Resistant	•	•	•	•	•
Protective Holster	•	•	•	•	•

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

DCV:	**Ranges:**	400mV ~ 1000V	400mV ~ 1000V	400mV ~ 1000V	20mV ~ 1000V	20mV ~ 1000V
	Resolution:	0.1mV	0.1mV	0.1mV	0.001mV	0.001mV
	Basic Accuracy:	±(0.25%+1d)	±(0.1%+1d)	±(0.1%+1d)	±(0.06%+10d)	±(0.06%+10d)
ACV:	**Ranges:**	400mV ~ 750V	400mV ~ 750V	400mV ~ 750V	20mV~750V	20mV~750V
	Resolution:	0.1mV	0.1mV	0.1mV	0.001mV	0.001mV
	Basic Accuracy:	±(1.3%+5d)	±(1.0%+5d)	±(1.0%+5d)	±(0.70%+50d), 40Hz ~ 100Hz	±(0.70%+50d), 40Hz ~ 100Hz
	Bandwidth:	40Hz ~ 1kHz	40Hz ~ 1kHz	40Hz ~ 1kHz	40Hz ~ 50kHz	40Hz ~ 100kHz
Ω:	**Ranges:**	400Ω ~ 40MΩ	400Ω ~ 40MΩ	400Ω ~ 40MΩ	200Ω ~ 2GΩ	200Ω ~ 2GΩ
	Resolution:	0.1Ω	0.1Ω	0.1Ω	0.01Ω	0.01Ω
	Basic Accuracy:	±(0.6%+2d)	±(0.4%+2d)	±(0.4%+2d)	±(0.30%+30d), 200Ω ~200KΩ	±(0.30%+30d), 200Ω ~ 200KΩ
Diode Test:	**Test Current:**	1.5 mA (Typical)	1.5 mA (Typical)	1.5 mA (Typical)	1.1 mA (Typical)	1.1 mA (Typical)
	Open Circuit Voltage:	3V DC(max).	3V DC(max).	3V DC(max).	3.3V DC(max).	3.3V DC(max).
Continuity Test:	**Continuity Threshold:**	Approx.30Ω	Approx.30Ω	Approx.30Ω	Approx.50Ω	Approx.50Ω
	Continuity Indicator:	2kHz Tone Buzzer	2kHz Tone Buzzer	2kHz Tone Buzzer	2kHz Tone Buzzer	2kHz Tone Buzzer
DCA:	**Ranges:**	40mA ~ 10A	40mA ~ 10A	40mA ~ 10A	20mA ~ 10A	20mA ~ 10A
	Resolution:	10µA	10µA	10µA	0.001mA	0.001mA
	Basic Accuracy:	±(0.6%+2d)	±(0.4%+2d)	±(0.4%+2d)	±(0.20%+40d)	±(0.20%+40d)
ACA:	**Ranges:**	40mA ~ 10A	40mA ~ 10A	40mA ~ 10A	20mA ~ 10A	20mA ~ 10A
	Resolution:	10µA	10µA	10µA	0.001mA	0.001mA
	Basic Accuracy:	±(1.3%+5d)	±(1.3%+5d)	±(1.3%+5d)	±(0.80%+50d), 40Hz ~ 500Hz	±(0.80%+50d), 40Hz ~ 500Hz
	Bandwidth:	40Hz ~ 1kHz	40Hz ~ 1kHz	40Hz ~ 1kHz	40Hz ~ 3kHz	40Hz ~ 3kHz
Capacitance:	**Ranges:**	4nF ~ 40mF	4nF ~ 40mF	4nF ~ 40mF	4nF ~ 40mF	4nF ~ 40mF
	Resolution:	1pF	1pF	1pF	1pF	1pF
	Basic Accuracy:	±(2%+5d)	±(2%+5d)	±(2%+5d)	±(0.90%+5d), 400nF ~ 4µF	±(0.90%+5d), 400nF ~ 4µF
Hz:	**Ranges:**	4kHz ~ 40MHz	4kHz ~ 400MHz	4kHz ~ 400MHz	20Hz ~ 1MHz	20Hz ~ 1MHz
	Resolution:	1Hz	1Hz	1Hz	0.01Hz	0.01Hz
	Basic Accuracy:	±(0.01%+1d)	±(0.01%+1d)	±(0.01%+1d)	±(0.01%+10d)	±(0.01%+10d)
RPM:	**Ranges:**	40kRPM ~ 400kRPM	40kRPM ~ 400MRPM	40kRPM ~ 400MRPM		
	Resolution:	30RPM	30RPM	30RPM	NA	NA
	Basic Accuracy:	±(0.01%+10d)	±(0.01%+10d)	±(0.01%+10d)		
%DF:	**Ranges:**				20% ~ 80%	20% ~ 80%
	Resolution:	NA	NA	NA	0.1%	0.1%
	Basic Accuracy:				±1% (20Hz ~ 10kHz, 5 Vp-p).	±1%(20Hz ~ 10kHz, 5 Vp-p).
Temperature:	**Ranges:**			-20°C ~ 800°C	-200°C ~ 1200°C	-200°C ~ 1200°C
	Resolution:	NA	NA	1°C	0.1°C	0.1°C
	Basic Accuracy:			±(2%+4°C), - 20°C ~ 350°C ±(2%+2°C), 351°C ~ 500°C ±(3%+2°C), 501°C ~ 800°C	±(0.1%+6°C), - 200°C ~ 100°C ±(0.1%+3°C), 100°C ~ 1200°C	±(0.1%+6°C), - 200°C ~ 100°C ±(0.1%+3°C), 100°C ~ 1200°C

GENERAL SPECIFICATIONS:

Auto Power Off: 30 minutes	•	•	•	•	•
Operating Temperature: 0°C ~ 50°C	•	•	•	•	•
Storage Temperature: -20°C ~ 60°C 0 to 80% R.H.	•	•	•	•	•
Temperature: Coefficient: 0.15 x (Spec. Accuracy)/°C,<18°C,>28°C	•	•	•	•	•
Safty: Designed to meet IEC 1010 CAT III 600V & UL 3111 Spec.	•	•	•	•	•
Battery Life: in hours (Akaline battery)	Alkaline 450 hours	Alkaline 450 hours	Alkaline 300 hours	Alkaline 100 hours	Alkaline 100 hours
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)	NA	NA	•	•	•
IEC, LR03, AM4 or AAA Size 1.5 x 2	•	•	NA	NA	NA
Dimensions: 86mm (W) x 185mm (L) x 31.5mm (D) 98mm (W) x 197mm (L) x 50mm (D) with holster	•	•	•	•	•
Weight: in grams (with holster)	620grams	620grams	620grams	620grams	620grams
Accessories:	Protective holster, test leads, test clips, ZnC battery (installed) and manual.	Protective holster, test leads, test clips, ZnC battery (installed) and manual.	Protective holster, test leads, test clips,Temp. adaptor, Bead sensor. ZnC battery (installed) and manual.	Protective holster, test leads, test clips, Temp. adaptor, Bead sensor. Alkaline battery (installed) and manual.	Protective holster, test leads, test clips,Temp. adaptor, Bead sensor. Alkaline battery (installed) and manual
Optical RS 232 Cable:	OPTION	OPTION	OPTION	OPTION	INCLUDED
APPA WinDMM 100J software:	OPTION	OPTION	OPTION	NA	NA
APPA WinDMM 100 software:	NA	NA	NA	OPTION	INCLUDED

Specifications subject to change without notice.

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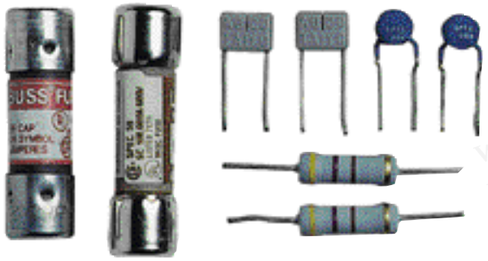
APPA®

Here are the key features that make us the toughest



OVERLOAD PROTECTION

High energy fuses, PTCs, and fusible resistors protect APPA 100 Series multimeter, and its user, from overloads.

OPTICAL RS-232 INTERFACE

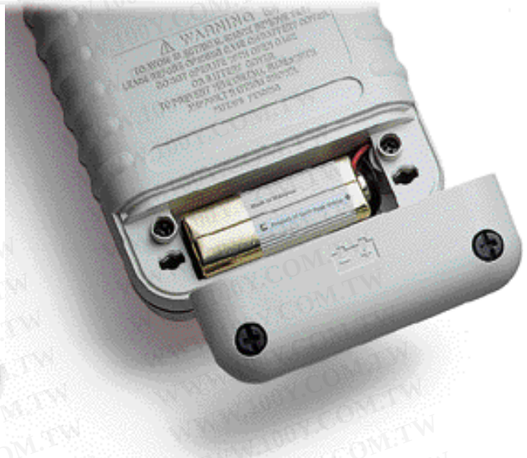
All new APPA 100 series has RS-232 optical interface to connect to PC for data acquisition. APPA 107 and 109 can be self-calibrated in connection with calibrator, also have self-data logging function without connecting to a computer.

DAY & NIGHT

All new APPA 100 series has LED backlit display that turns ON/OFF at the touch of a button, also automatically goes off to save battery life.

EXTRA PROTECTION

Every APPA 100 Series meter is supplied with a protective holster that includes a built-in tilt stand, a nail hook, and convenient test lead storage. This holster provides an extra degree of protection and convenience for your meter.



BATTERY EASY TO REPLACE

Unscrew only two screws to remove battery door for battery replacement, designed for user's convenience without opening the bottom case.

APPA107

APPA109

NO-OPTION FULL ACCESSORIES

Ergonomicly designed test leads with comfort-grip, safety-shrouded, full-sleeve right-angle plug and hard alloy tips for long life. Slip-on insulated alligator clips are standard. Also supplied with temperature adaptor and bead sensor.

APPA103N

APPA105N

APPA106

APPA 100 Series multimeters are as tough as they come ...and the best value for your money.

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