

APPA 90II SERIES MULTIMETER

PECIFICATIONS:(All at 23°C ±5°C < 80% R.H.)

	APPA 97II	APPA 98II	APPA 99II
CV:			
Ranges	300mV ~ 1000V	400mV ~ 1000V	400mV ~ 1000V
Resolution	100µV	100µV	100µV
Accuracy	±(0.25%+1d)	±(0.25%+1d), 40V~1000V	±(0.25%+1d), 40V~1000V
CV:			
Ranges	3V ~ 750V	400mV ~ 750V	400mV ~ 750V
Resolution	1mV	0.1mV	0.1mV
Accuracy	±(1.3%+5d)	±(1.3%+5d), 40V~750V	±(1.3%+5d), 40V~750V
Bandwidth	40Hz ~ 1KHz	40Hz ~ 1KHz	40Hz ~ 1KHz
CA:			
Ranges	30mA ~ 10A	40mA ~ 10A	40mA ~ 10A
Resolution	10µA	10µA	10µA
Accuracy	±(1.5%+2d), 30mA ~ 300mA	±(0.6%+2d), 40mA	±(0.6%+2d), 40mA
CA:			
Ranges	30mA ~ 10A	40mA ~ 10A	40mA ~ 10A
Resolution	10µA	10µA	10µA
Accuracy	±(2.0%+5d), 30mA ~ 300mA	±(2.0%+5d), 40mA ~ 400mA	±(2.0%+5d), 40mA ~ 400mA
Bandwidth	40Hz ~ 1KHz	40Hz to 1KHz	40Hz to 1KHz
Ranges	300 ~ 30M	400 ~ 40M	400 ~ 40M
Resolution	0.1	0.1	0.1
Accuracy	±(0.7%+3d), 3K ~ 300K	±(0.4%+3d), 4K ~400K	±(0.4%+3d), 4K ~400K
Diode Test:			
Max Test Current	1.5mA	1.5mA	1.5mA
Open Circuit Voltage	3V	3V	3V
Input Protection	600Vrms	600Vrms	600Vrms
Continuity Test:			
Continuity Threshold	Approx. 30	Approx. 30	Approx. 30
Continuity Indicator	2KHz Tone Buzzer	2KHz Tone Buzzer	2KHz Tone Buzzer
Input Protection	600Vrms	600Vrms	600Vrms
Hz:			
Ranges	3.0KHz ~ 30MHz	4KHz ~ 40MHz	4KHz ~ 40MHz
Resolution	1Hz	1Hz	1Hz
Accuracy	±(0.01%+1d)	±(0.01%+1d)	±(0.01%+1d)
PM:			
Ranges	30KRPM ~ 300MRPM	40KRPM ~ 400MRPM	40KRPM ~ 400MRPM
Resolution	30RPM	10RPM	10RPM
Accuracy	±(0.01%+10d)	±(0.01%+10d)	±(0.01%+10d)
Capacitance:			
Ranges	NA	4nF ~ 40mF	4nF ~ 40mF
Resolution	NA	1pF	1pF
Accuracy	NA	±(2%+5d), 40nF~400µF	±(2%+5d), 40nF~400µF
AHz:			
Ranges	AC: 3V ~ 750V, 30mA ~ 10A	AC: 400mV ~ 750V, 40mA ~ 10A	NA
Resolution	1Hz	1Hz	NA
Accuracy	±(0.01%+1d)	±(0.01%+5d)	NA
°F:			
Ranges	NA	NA	-20°C ~ 800°C
Resolution	NA	NA	1°C
Accuracy	NA	NA	±(2%+4°C), -20°C ~ 350°C ±(2%+2°C), 351°C ~ 500°C ±(3%+2°C), 501°C ~ 800°C

GENERAL SPECIFICATIONS:

Display	3400 count	4000 count	4000 count
Analog Bargraph Display	70 segments	82 segments	82 segments
Overrange Indication	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"
Sampling Rate	2 times/sec	2 times/sec	2 times/sec
Auto Power Off	Approx. 30 minutes	Approx. 30 minutes	Approx. 30 minutes
Storage Temperature: -20°C to 60°C, 0 to 80% R.H.	•	•	•
Temperature Coefficient: 0.15 x (Spec. Acc'y)/°C, < 18°C, > 28°C.	•	•	•
Safety Standard	•	•	•
Compliance: IEC 61010 & designed to meet UL 3111, CAT. III 600V/CAT.II 1000V	•	•	•
Power Requirement: Standard 9V battery NEDA 1604, IEC6F22, JIS006P. IEC LR03, AM4 or AAA size 1.5V x 2.	•	•	•
Battery Life	Alkaline 500 hours	Alkaline 300 hours.	Alkaline 300 hours.
Dimensions (W x L x H)	88mm x 180mm x 33.5mm 94mm x 188mm x 40mm, with holster	88mm x 180mm x 33.5mm 94mm x 188mm x 40mm, with holster	88mm x 180mm x 33.5mm 94mm x 188mm x 40mm, with holster
Weight: In grams (with holster)	460	460	460
Accessories	Protective holster, ZnC battery (installed), test leads, test clips and manual.	Protective holster, ZnC battery (installed), test leads, test clips and manual.	Protective holster, ZnC battery (installed), test leads, test clips, Temp. adaptor, Bead sensor and manual.

Specifications subject to change without notice.

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ISO 9001 CERTIFIED

ALL NEW

APPA 90 Series II Multimeter



APPA®

Advanced Instrument Technology Made Easy



DAY & NIGHT

APPA 99II Digital Multimeter has a LED backlit display that turns ON/OFF at the touch of a button, also automatically goes off to save battery life.

WHOLE NEW SHAPE

A whole new designed V shape represent a new millennium of instrumentation.



EXTRA PROTECTION

Every 90II 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 one screw to remove battery door for battery replacement, designed for user's convenience without opening the bottom case.



NO-OPTION FULL ACCESSORIES

Ergonomically 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. (Mode 99II)

APPA 97II

3400 count digital display
70 segment analog bar graph
Large scale display
Autoranging and manual selection
0.25% DCV accuracy
Hz reading on AC mode
Frequency Counter
Data Hold
Stream Line Design, Protective Holster
CAT. III 600V/CAT.II 1000V Safety Standard



APPA 98II

4000 count digital display
82 segment analog bar graph
Large scale display
Autoranging and manual selection
0.25% DCV accuracy
True RMS Indication
Hz reading on AC mode
Frequency Counter
Capacitance Measurement
Data Hold
Stream Line Design, Protective Holster
CAT. III 600V/CAT.II 1000V Safety Standard



APPA 99II

4000 count digital display
82 segment analog bar graph
Backlit, Large scale display
Autoranging and manual selection
0.25% DCV accuracy
True RMS Indication
Peak Hold
Data Hold
Relative feature
Min/Max function
Frequency Counter
Capacitance Measurement
°C/ °F Temperature test
Stream Line Design, Protective Holster
CAT. III 600V/CAT.II 1000V Safety Standard

