APPA 90 Series Multimeter

Analog Bar Graph Logic Test

Frequency Counter Capacitance Ranges Continuity/Diode Test ' Water Resistant [·] Drop Proof

[·] True RMS [·] Auto Power Off [·] Beep Guard[™] ' Protective Holster



APPA 93N

3 1/2 digit 0.8" large scale LCD 0.5% basic DCV accuracy 1.3% basic ACV accuracy 1.0% basic DCA accuracy 1.5% basic ACA accuracy 0.75% basic OHM accuracy 1.0% FREQUENCY accuracy 2.0% CAPACITANCE accuracy CONTINUITY and DIODE Test 600V protection in non-current ranges

500V dual fuses protection Auto Power Shut Off

5 feet drop proof

Protective Holster with tilt stand IEC 1010-1 standard CAT.II 600V



APPA 97R (True RMS reading)

3200 count digital resolution 65 segment analog bar graph Autoranging and manual selection 0.3% basic DCV accuracy (97R) 1.3% basic ACV accuracy 1.0% basic DCA accuracy 1.5% basic ACA accuracy 0.5% basic OHM accuracy (97R) TRUE RMS reading in ACV/ACA (97R) CONTINUITY and DIODE Test 500V dual fuses protection Auto Power Shut Off Beep Guard[™] warning system Water Resistant rating IP64 Fast continuity beeper (0.2m sec) Data HOLD key Unique DELAY HOLD function 5 feet drop proof Protective Holster with tilt stand IEC 1010-1 standard CAT. II 1000

Made Easy With These Feature ...

BEEP GUARDÔ

Specially designed Beep Guard™ provides a constant beep warning if the test leads put in the current jacks and select an incorrect function.

Model: 97R

SHOCKPROOF

Shock mounting and thick-wall design guarantee that these multimeters will keep on working even after a five foot fall to a concrete floor.

WATER RESISTANT

Model: 97R are designed for harsh environments with water tight gasket at the seams, rotary switch and input terminals to keep out dust, dirt and moisture. Rating IP 64

MULTIPURPOSE HOLSTER

Every APPA 90 Series meter is supplied with a protective holster that includes a built-in tilt stand, a nail hook, and convenient test lead This holster provides an extra storage. degree of protection and convenience for your meter.

COLOR-CODED

Input terminals are color-keyed to the functior switch. This helps ensure a correct mete setting and terminal use for the desired measurement.

DURABLE SWITCH

The unique rotary switch, constructed with durable engineering plastic, beryllium coppe contacts, and gold-plated circuit boards, wil provide years of use.

Any More ...



SAFTEY

All models are designed to meet Class II IEC 1010 and UL 3111 standards for the safest operation in all applications.



AUTO POWER OFF

The meter automatically shuts itself off when not in use to extend battery life.

東方科技公司 ORIENTAL TECHNOLOGY COMPANY O/B ORIENTAL TECH DEVELOPMENT LTD.

Unit 2203, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, N.T., Hong Kong. Tel: 852-24023200 Fax: 852-24133100 http://www.otdl.com info@otdl.com

APPA 90 SERIES MULTIMETERS

FEATURES:

	APPA 93N	APPA 97R	
Digital display	2000 count	3200 count	
Analog bar graph display		65 Segment	
Range selection	Manual	Auto/Manual	
Frequency Counter	•		
Capacitance measurement	•		
Audible continuity and Diode test	•	•	
Data hold/Peak hold		D-H	
Delay hold		•	
True RMS measuring		•	
Beep Guard™		•	
Automatic power shut off	•	•	
Shock proof from 5 feet drops	•	•	
Standard full-sleeve safety test leads	•	•	
Protective holster	•		
Water resistant and dust proof case			

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

DCV:	Ranges	200mV ~ 600V	320mV ~ 1000V
	Resolution	0.1mV	0.1mV
	Accuracy: 0.5% + 2d	•	0.3% + 2d
	Input Resistance: 10MΩ		
	Overload Protection: 1000Vrms	600V rms	
ACV:	Ranges	200mV ~ 600V	3.2 ~ 750V
	Resolution	0.1mV	1mV
	Accuracy: 1.3% + 5d at 40z ~ 500Hz		
	Input Impedance: 10MΩ//<100pF		
	Overload Protection: 1100VDC or AC peak	600V rms	
	Conversion Type: Average sensing RMS indicating		True RMS
DCA:	Ranges: (20A for 30 seconds)	200µA ~ 10A	320µA ~ 20A
	Resolution	0.1µA	0.1µA
	Accuracy: 1% + 2d basic, 2% + 3d at >2A	÷	
	Input Protection: 1A/500V and 13A/500V fuses, HBC 6000A		
ACA:	Ranges: (20A for 30 seconds)	200µA ~ 10A	320µA ~ 20A
	Resolution	0.1µA	0.1µA
	Accuracy: 1.5% + 3d basic, 2.5% + 5d at >2A		
	all at 40Hz ~ 500Hz		
	Input Protection: Same as DCA		•
	Conversion Type: Average sensing RMS indicating		True RMS
OHM:	Ranges	200Ω ~ 20MΩ	320Ω ~ 32MΩ
	Resolution	0.1Ω	0.1Ω
	Accuracy: 75% + 4d on 200Ω, 320Ω, 400Ω		
	75% + 2d on basic ranges		0.5% + 2d basic
	2% + 5d on 20MΩ, 32MΩ, 40MΩ		
	Overload Protection: 500V rms	600V rms	600V rms
CONTINUITY BEEPER:	<50Ω, 2KHz tone buzzer	•	•
DIODE TEST:	Open circuit voltage 3.3V max	•	•
FREQUENCY COUNTER:	Ranges	2KHz ~ 200KHz	
	Resolution	1Hz	
	Accuracy: 1% + 3d at 5V rms max	•	
	Overload Protection: 500V rms	600V rms	
CAPACITANCE:	Ranges	2nF ~ 200μF	
	Resolution	1pF	

GENERAL:

Measuring Rate	2.5T/sec	2T/s digital 12T/S analog
Overrange Indication	"1" or "-1"	″1″ or ″-1″
Operating Temperature: 0°C ~ 50°C, 80% R.H.	•	
Storage Temperature: -20°C ~ 60°C		•
Temperature Coefficient: 0.15 x (Spec. Acc)/ °C, <18°C or >28°C		
Safety: Designed to IEC 1010 and UL 3111 specifications		
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)	•	•
Battery Life: In hours (Alkaline battery)	150	400
Size: 84mm (W) x 175mm (L) x 31mm (H), without holster		•
95mm (W) x 192mm (L) x 50mm (H), with holster		
Weight: 340 grams without holster		
550 grams with holster		
Included with Instrument: Test Leads Protective holster. ZnC battery (installed) and manual		Specifications subject to change without ne

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