

# APPA 80 Series Multimeter

Leading Edge Features On a Tight Budget



**APPA**<sup>®</sup>

Advanced Instrument Technology Made Easy



### APPA 80

- 3400 count digital display
- 70 segments analog bar graph
- Autorange and manual selection
- 0.5% basic DCV accuracy
- Data Hold
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster and tilt stand
- CAT. III 600V/CAT. II 1000V Safety Standard



### APPA 82 APPA 82R (True -RMS reading)

- 4000 count digital display
- 82 segments analog bar graph
- Autorange and manual selection
- True RMS reading or AC mode (82R)
- 0.5% basic DCV accuracy
- Data Hold
- Frequency Counter
- Capacitance Measurement
- Hz reading on AC mode
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster and tilt stand
- CAT. III 600V/CAT. II 1000V Safety Standard

## APPA 80 SERIES MULTIMETER

### FEATURES:

	APPA 80	APPA 82/82R
Digital display	3400 count	4000 count
Analog bar graph	70 segments	82 segments
Range selection	Auto/Manual	Auto/Manual
True RMS measuring		*82R
Frequency counter		*
Capacitance measurement		*
Audible continuity and Diode test	*	*
Data hold	*	*
Automatic power shut off	*	*
Shock proof from 4 feet drops	*	*
Standard full-sleeve safety test leads	*	*
Protective holster	Option	Option

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

	APPA 80	APPA 82/82R	
<b>DCV:</b>	<b>Ranges</b>	300.0mV~1000V	400mV~1000V
	<b>Resolution</b>	0.1mV	0.1mV
	<b>Accuracy:</b> ±(0.5%+2d)	*	*
	<b>Input Impedance:</b> 10MΩ	*	*
<b>ACV:</b>	<b>Ranges</b>	3.000V~750V	400.0mV~750V
	<b>Resolution</b>	1mV	0.1mV
	<b>Accuracy:</b> 400mV(Unspecified), 3V/ 4V	±(1.5%+5d)	±(1.5%+5d)
	30V/ 40V, 300V/ 400V, 750V	±(1.5%+5d)	±(1.3%+5d)
	<b>Frequency Response:</b> 40Hz~500Hz	*	*
	<b>Input Impedance:</b> 10MΩ/<100pF	*	*
	<b>Overload Protection:</b> 1000V rms	*	*
	<b>Conversion Type:</b>	*	*82R True-RMS
		Average sensing RMS indicating	*
<b>DCA:</b>	<b>Ranges</b>	300.0μA, 3000μA, 10.00A	400.0μA, 4000μA, 10.00A
	<b>Resolution</b>	0.1μA	0.1μA
	<b>Accuracy:</b> 300μA/ 400μA, 3000μA/ 4000μA	±(1.7%+2d)	±(1.7%+2d)
	10A	±(2.0%+2d)	±(2.0%+2d)
		<b>Input Protection:</b> 600V rms for μA input	*
		16A / 500V fast blow fuse for A input	*
<b>ACA:</b>	<b>Ranges</b>	300.0μA, 3000μA, 10.00A	400.0μA, 4000μA, 10.00A
	<b>Resolution</b>	0.1μA	0.1μA
	<b>Accuracy:</b> 300μA / 400μA, 3000μA/ 4000μA	±(2.2%+5d)	±(1.7%+2d)
	10A	±(2.5%+5d)	±(2.0%+2d)
		<b>Frequency Response:</b> 40Hz~500Hz	*
		<b>Input Protection:</b> Same as DCA	*
		<b>Conversion Type:</b>	*
		Average sensing RMS indicating	*82R True-RMS
<b>OHM:</b>	<b>Ranges</b>	300.0Ω~30.00MΩ	400.0Ω~40.00MΩ
	<b>Resolution</b>	0.1Ω	0.1Ω
	<b>Accuracy:</b> 300Ω / 400Ω	±(1.0%+4d)	±(1.0%+3d)
	3KΩ/ 4KΩ, 30KΩ/ 40KΩ, 300KΩ/ 400KΩ		±(0.75%+3d)
		3MΩ/ 4MΩ	±(1.0%+3d)
		30MΩ/ 40MΩ	±(2.0%+5d)
		<b>Overload Protection:</b> 600V rms	*
		<b>Continuity Beeper:</b> <30±, 2KHz tone buzzer	*
		<b>Diode Test:</b> Open circuit voltage: 3V	*
<b>Frequency Counter:</b>	<b>Ranges</b>		4.000KHz~40.00MHz
	<b>Resolution</b>		1Hz
	<b>Accuracy:</b> 4KHz, 40KHz, 400KHz at 100mV rms		±(0.01%+1d)
	4MHz at 250mV rms		±(0.01%+1d)
		40MHz at 1V rms	±(0.01%+1d)
		<b>Overload Protection:</b> 600V rms	*
<b>Capacitance:</b>	<b>Ranges</b>		4.000nF~40.00mF
	<b>Resolution</b>		1pF
	<b>Accuracy:</b> 4nF, 40nF		±(3.0%+10d)
	4μF, 40μF, 400μF		±(2.0%+8d)
		4mF, 40mF	±(5.0%+20d)
		<b>Overload Protection:</b> 600V rms	*

### GENERAL:

	APPA 80	APPA 82/82R
<b>Sampling Rate:</b> 2times/sec for digital display	*	*
12times/sec for analog bar graph	*	*
<b>Overload Indication</b>	"OL" or "-OL"	"OL" or "-OL"
<b>Low Battery Indication</b>		
<b>Auto Power Off:</b> Approx. 10 minutes	*	*
<b>Operating Temperature:</b> 0°C~50°C, ≤80% RH"	*	*
<b>Storage Temperature:</b> - 20°C ~ 60°C	*	*
<b>Temperature Coefficient:</b> 0.15(Spec. Acc)/°C, <18°C or>28°C	*	*
<b>Safety:</b> IEC 61010 and designed to meet UL3111 specifications	CAT. III 600V CAT. II 1000V	CAT. III 600V CAT. II 1000V
<b>Power Requirement:</b> Single 9V battery (NEDA 1604 or IEC 6F22)	*	*82R
IEC LR03, AM4 or AAA size 1.5V x 2	*	*
<b>Battery Life:</b> In hours (Alkaline battery)	500	300
<b>Size:</b> 85mm(W) x 177mm (L) x 38 mm(H), without holster	*	*
90mm(W) x 186mm (L) x 46mm (H), with holster	*	*
<b>Weight:</b> In grams (with holster)	400	400, (82R) 430
<b>Included with instrument:</b> Test Leads, ZnC battery (installed) and manual	*	*

Specifications subject to change without notice.  
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