

# 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  
Autoranging 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  
Autoranging 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

	3400 count	4000 count
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.)		
<b>DCV:</b>		
Ranges	300.0mV-1000V	400mV-1000V
Resolution	0.1mV	0.1mV
Accuracy: ±(0.5%+2d)	*	*
Input Impedance:10M	*	*
Overload Protection: 1000V rms	*	*
<b>ACV:</b>		
Ranges	3.000V-750V	400.0mV-750V
Resolution	1mV	0.1mV
Accuracy: 400mV(Unspecified), 3V/ 4V	±(1.5%+5d)	±(1.5%+5d)
30V/ 40V, 300V/ 400V, 750V	±(1.5%+5d)	±(1.3%+5d)
Frequency Response: 40Hz-500Hz	*	*
Input Impedance:10M / <100pF	*	*
Overload Protection: 1000V rms	*	*
Conversion Type:	*	*82R True-RMS
Average sensing RMS indicating	*	*
<b>DCA:</b>		
Ranges	300.0µA, 3000µA, 10.00A	400.0µA, 4000µA, 10.00A
Resolution	0.1µA	0.1µA
Accuracy: 300µA/ 400µA, 3000µA/ 4000µA	±(1.7%+2d)	±(1.7%+2d)
10A	±(2.0%+2d)	±(2.0%+2d)
Input Protection: 600V rms for µA input	*	*
16A / 500V fast blow fuse for A input	*	*
<b>ACA:</b>		
Ranges	300.0µA, 3000µA, 10.00A	400.0µA, 4000µA, 10.00A
Resolution	0.1µA	0.1µA
Accuracy: 300µA / 400µA, 3000µA/ 4000µA	±(2.2%+5d)	±(1.7%+2d)
10A	±(2.5%+5d)	±(2.0%+2d)
Frequency Response: 40Hz-500Hz	*	*
Input Protection: Same as DCA	*	*
Conversion Type:	*	*82R True-RMS
Average sensing RMS indicating	*	*
<b>OHM:</b>		
Ranges	300.0 -30.00M	400.0 -40.00M
Resolution	0.1	0.1
Accuracy: 300 / 400	±(1.0%+4d)	±(1.0%+3d)
3K / 4K , 30K / 40K , 300K / 400K	±(0.75%+3d)	±(0.75%+2d)
3M / 4M	±(1.0%+3d)	±(1.0%+3d)
30M / 40M	±(2.0%+5d)	±(1.5%+5d)
Overload Protection: 600V rms	*	*
Continuity Beeper: <30±, 2KHz tone buzzer	*	*
Diode Test: Open circuit voltage: 3V	*	*
Frequency Counter:Ranges		4.000KHz-40.00MHz
Resolution		1Hz
Accuracy: 4KHz, 40KHz, 400KHz at 100mV rms		±(0.01%+1d)
4MHz at 250mV rms		±(0.01%+1d)
40MHz at 1V rms		±(0.01%+1d)
Overload Protection: 600V rms	*	*
<b>Capacitance:</b>		
Ranges		4.000nF-40.00mF
Resolution		1pF
Accuracy: 4nF, 40nF		±(3.0%+10d)
4µF, 40µF, 400µF		±(2.0%+8d)
4mF, 40mF		±(5.0%+20d)
Overload Protection: 600V rms	*	*
<b>GENERAL:</b>		
Sampling Rate: 2times/sec for digital display	*	*
12times/sec for analog bar graph		
Overload Indication	"OL" or "OL"	"OL" or "OL"
Low Battery Indication	!±	!±
Auto Power Off: Approx. 10 minutes	*	*
Operating Temperature: 0°C-50°C, 80% RH*	*	*
Storage Temperature: -20°C - 60°C	*	*
Temperature Coefficient: 0.15(Spec. Acc)/°C, <18°C or>28°C	*	*
Safety: IEC 61010 and designed to meet UL3111 specifications	CAT. III 600V CAT. II 1000V	CAT. III 600V CAT. II 1000V
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)		*82R
IEC LR03, AA4 or AAA size 1.5V x 2	*	*
Battery Life: In hours (Alkaline battery)	500	300
Size: 85mm(W) x 177mm (L) x 38 mm(H), without holster		
90mm(W) x 186mm (L) x 46mm (H), with holster		
Weight: In grams (with holster)	400	400, (82R) 430
Included with instrument: Test Leads, ZnC battery (installed) and manual	*	*

ifications subject to change without notice.  
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Distrubuted by:

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