

**APPA 70 SERIES MULTIMETERS**

FEATURES:	APPA 71	APPA 72	APPA 73	APPA 75	APPA 77	APPA 79
Digital display	6000 count	6000 count	6000 count	4000 count	4000 count	4000 count
Analog bar graph display	.	.	.	.	.	.
Range selection	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
True RMS measuring	.	.	.	.	.	.
Data hold	.	.	.	.	.	.
Min Max function	.	.	.	.	.	.
Frequency counter	.	.	.	.	.	.
Capacitance measurement	.	.	.	.	.	.
RS-232 interface	.	.	.	.	.	.
Audible continuity and Diode test	.	.	.	.	.	.
Backlight	.	.	.	.	.	.
Open communication protocol	.	.	.	.	.	.
Automatic power shut off	.	.	.	.	.	.
Shock proof from 4 feet drops	.	.	.	.	.	.
Standard full-sleeve safety test leads	.	.	.	.	.	.
Protective holster	.	.	.	.	.	.

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

<b>DCV:</b>						
Ranges	600.0mV~1000V	600.0mV~1000V	600.0mV~1000V	400.0mV~1000V	400.0mV~1000V	400.0mV~1000V
Resolution	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
Basic Accuracy: ±(0.5%+2d)	.	.	.	.	.	.
Input Impedance:10MΩ	.	.	.	.	.	.
Overload Protection: 1000V rms	.	.	.	.	.	.
<b>ACV:</b>						
Ranges	600.0mV~750V	600.0mV~750V	600.0mV~750V	4.00mV~750V	4.00mV~750V	4.00mV~750V
Resolution	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
Basic Accuracy: ±(0.9%+5d) at 50Hz~500Hz, 600.0mV(unspecified)	.	.	.	±(1.2%+5d) at 50Hz~500Hz	±(1.2%+5d) at 50Hz~500Hz	±(1.2%+5d) at 50Hz~500Hz
Input Impedance:10MΩ/≤100pF	.	.	.	.	.	.
Overload Protection: 1000V rms	.	.	.	.	.	.
Conversion Type: Average sensing RMS indicating	.	.	.	.	.	.
<b>DCA:</b>						
Ranges	600.0μA, 6000μA	True-RMS 600.0μA, 6000μA, 6.000A, 10.00A	True-RMS 600.0μA, 6000μA, 6.000A, 10.00A	True-RMS 400.0μA, 4000μA, 10.00A*	True-RMS 400.0μA, 4000μA, 10.00A*	True-RMS 400.0μA, 4000μA, 10.00A*
Resolution	0.1μA	0.1μA	0.1μA	0.1μA	0.1μA	0.1μA
Basic Accuracy: ±(1.0%+2d)	.	.	.	.	.	.
Input Protection: 600V rms for μA input	.	.	.	.	.	.
10A/500V fast blow fuse for A input	.	.	.	.	.	.
<b>ACA:</b>						
Ranges	600.0μA, 6000μA	6.000A, 10.00A	6.000A, 10.00A		10.00A	10.00A
Resolution	0.1μA	0.1μA	0.1μA		10mA	10mA
Basic Accuracy: ±(1.5%+5d) at 50Hz~500Hz	.	.	.	.	.	.
Input Protection: 600V rms for μA input	.	.	.	.	.	.
16A/500V fast blow fuses for A input	.	.	.	.	.	.
<b>OHM:</b>						
Ranges	600.0Ω~60.00MΩ	600.0Ω~60.00MΩ	600.0Ω~60.00MΩ	400.0Ω~40.00MΩ	400.0Ω~40.00MΩ	400.0Ω~40.00MΩ
Resolution	0.1Ω	0.1Ω	0.1Ω	0.1Ω	0.1Ω	0.1Ω
Accuracy: 600.0/400.0Ω	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)	±(1.0%+5d)	±(1.0%+5d)	±(1.0%+5d)
6.000/4.000KΩ, 60.00/40.00KΩ, 600.0/400.0KΩ	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)
6.000/4.000MΩ	±(1.0%+2d)	±(1.0%+2d)	±(1.0%+2d)	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)
60.00/40.00MΩ	±(1.5%+2d)	±(1.5%+2d)	±(1.5%+2d)	±(1.5%+2d)	±(1.5%+2d)	±(1.5%+2d)
Overload Protection: 600V rms	.	.	.	.	.	.
Continuity Beeper: <150Ω, 2KHz tone buzzer	.	.	.	<350Ω	<350Ω	<350Ω
Diode Test: Open circuit voltage: 3V	.	.	.	.	.	.
<b>Frequency Counter:</b>						
Ranges	6000Hz~60.00MHz	6000Hz~60.00MHz	6000Hz~60.00MHz	4KHz~40.00MHz	4KHz~40.00MHz	4KHz~40.00MHz
Resolution	1Hz	1Hz	1Hz	1Hz	1Hz	1Hz
Accuracy: 6000/4000Hz, 60.00/40.00KHz, 600.0/400.0KHz	±(0.01%+1d) at 100mV rms	±(0.01%+1d) at 100mV rms	±(0.01%+1d) at 100mV rms	±(0.01%+1d) at 150V rms	±(0.01%+1d) at 150V rms	±(0.01%+1d) at 150V rms
6.000/4.000MHz	±(0.01%+1d) at 250mV rms	±(0.01%+1d) at 250mV rms	±(0.01%+1d) at 350V rms	±(0.01%+1d) at 350V rms	±(0.01%+1d) at 350V rms	±(0.01%+1d) at 350V rms
60.00/40.00MHz	±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms
Overload Protection: 600V rms	.	.	.	.	.	.
<b>Capacitance:</b>						
Ranges	6.000nF~6.000mF	6.000nF~6.000mF	6.000nF~6.000mF	4.000nF~4.000mF	4.000nF~4.000mF	4.000nF~4.000mF
Resolution	1pF	1pF	1pF	1pF	1pF	1pF
Basic Accuracy: ±(1.9%+8d)	.	.	.	±(2.0%+8d)	±(2.0%+8d)	±(2.0%+8d)
Overload Protection: 600V rms	.	.	.	.	.	.

GENERAL:	APPA 71	APPA 72	APPA 73	APPA 75	APPA 77	APPA 79
Sampling Rate: 1.5times/sec	.	.	.	2 times/sec	2 times/sec	2 times/sec
Overload Indication: "OL" or "-OL"	.	.	.	.	.	.
Low Battery Indication	🔋	🔋	🔋	🔋	🔋	🔋
Auto Power Off: Approx. 10 minutes	.	.	.	30 minutes	30 minutes	30 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. IV, 600V, CAT. III 1000V	CAT. IV, 600V, CAT. III 1000V	CAT. IV, 600V, CAT. III 1000V	CAT. IV, 600V, CAT. III 1000V	CAT. IV, 600V, CAT. III 1000V	CAT. IV, 600V, CAT. III 1000V
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)	.	.	.	.	.	.
IEC LFR03, AM4 or AAA size 1.5V x 2	.	.	.	.	.	.
Battery Life: In hours (Alkaline battery)	300	300	300	300	300	300
Size: 76mm(W) x 158mm (L) x 38 mm(H), without holster	.	.	.	.	.	.
82mm(W) x 164mm (L) x 44 mm (H), with holster"	.	.	.	.	.	.
Weight: In grams (with holster)	400	400	400	400	400	400
Included with instrument: Test Leads, Protective holster	.	.	.	.	.	.
ZnC battery (installed) and manual	.	.	.	.	.	.

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# APPA 70 Series Multimeter

## Smaller but much Nicer and Rugged



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 ISO 9001 CERTIFIED

**APPA**<sup>®</sup>  
 Advanced Instrument Technology Made Easy



### NEW SLIM DESIGN

Ergonomically designed slim shape with one hand operated knob and buttons. Just fit the palm of your hand and your needs.



### APPA 71

6000 count digital display  
Large scale display  
0.5% basic DCV accuracy  
Data Hold  
Min/ Max function  
Frequency Counter  
Capacitance Measurement  
Auto Power Off  
Shock proof from 4 feet drops  
Protective Holster with tilt stand  
CAT. IV 600V/CAT. III 1000V  
Safety standard



### APPA 72

6000 count digital display  
Large scale display  
True RMS reading on AC mode  
0.5% basic DCV accuracy  
Data Hold  
Min/ Max function  
Frequency Counter  
Capacitance Measurement  
Auto Power Off  
Shock proof from 4 feet drops  
Protective Holster with tilt stand  
CAT. IV 600V/CAT. III 1000V  
Safety standard



### APPA 75

4000 count digital display  
82 segments analog bar graph  
Large scale display  
0.5% basic DCV accuracy  
Data Hold  
Min/ Max function  
Frequency Counter  
Capacitance Measurement  
Auto Power Off  
Shock proof from 4 feet drops  
Protective Holster with tilt stand  
CAT. IV 600V/CAT. III 1000V  
Safety standard



### APPA 77

4000 count digital display  
82 segments analog bar graph  
Large scale display  
True RMS reading on AC mode  
0.5% basic DCV accuracy  
Data Hold  
Min/ Max function  
Frequency Counter  
Capacitance Measurement  
Auto Power Off  
Shock proof from 4 feet drops  
Protective Holster with tilt stand  
CAT. IV 600V/CAT. III 1000V  
Safety standard

### DAY & NIGHT

APPA 73 & 79 Digital Multimeter have a LED backlit display that turns ON/OFF at the touch of a button, also automatically goes off to save battery life.



### OPTICAL RS-232 INTERFACE

APPA 73 & 79 have RS-232 optical interface to connect to PC for data acquisition and analysis.

### EXTRA PROTECTION

Every 70 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.



### APPA 73

6000 count digital display  
Backlit, Large scale display  
True RMS reading on AC mode  
0.5% basic DCV accuracy  
Data Hold  
Min/ Max function  
Frequency Counter  
Capacitance Measurement  
Optical RS-232 interface  
Auto Power Off  
Shock proof from 4 feet drops  
Protective Holster with tilt stand  
CAT. IV 600V/CAT. III 1000V  
Safety standard



### APPA 79

4000 count digital display  
82 segments analog bar graph  
Backlit, Large scale display  
True RMS reading on AC mode  
0.5% basic DCV accuracy  
Data Hold  
Min/ Max function  
Frequency Counter  
Capacitance Measurement  
Optical RS-232 interface  
Auto Power Off  
Shock proof from 4 feet drops  
Protective Holster with tilt stand  
CAT. IV 600V/CAT. III 1000V  
Safety standard



### 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.

