

APPA 500 SERIES MULTIMETERS

FEATURES:	APPA 503	APPA 505
Digital display	4,000/40,000 count	10,000/100,000 count
Analog Bar graph Segments	43	43
Self-Calibration	.	.
True RMS reading	AC, AC+DC	AC, AC+DC
Auto Backlit, Dual Display	.	.
Auto detect AC, DC and AC+DC on Voltage & Current mode with Frequency indication	.	.
Auto Selection on Ohm, Capacitance, Diode or Continuity	.	.
On-Screen-Menu Selection	.	.
Navigator Key Drive	.	.
High Frequency Rejection (HFR)	.	.
Peak Hold	.	.
Auto Hold	.	.
MIN MAX AVG	.	.
Relative Mode	.	.
Duty Cycle	.	.
Store/Recall memoris	100	100
dBm/dB measurement	.	.
Data Logging Capacity	5,000	20,000
Log rate setting	.	.
Optical interface	.	.
Automatic power shut off with selectable time	.	.
Beep Guard with Auto fuse detection	.	.
All weather housing	.	.
Full Accessories	.	.

SPECIFICATIONS:(All at 23°C ± 5°C, ≤ 80% R.H.) Multiply accuracy digit by 10 in 40,000/100,000 count mode.

	APPA 503	APPA 505
<b>DCV:</b>		
Ranges:	40mV~1000V	100mV~1000V
Resolution:	0.001mV	0.001mV
Basic Accuracy:	±(0.03%+2d)	±(0.015%+2d)
Input Impedance:10MΩ	.	.
Overload Protection: 1000V rms	.	.
<b>ACV:</b>		
Ranges:	40mV~1000V	100mV~1000V
Resolution:	0.001mV	0.001mV
Basic Accuracy: 40Hz~100KHz	±(0.70%+5d)	±(0.40%+2d)
Input Impedance:10MΩ//<100pF	.	.
Overload Protection: 1000V rms	.	.
Conversion Type: AC+DC True RMS indicating	.	.
<b>(AC+DC)V:</b>		
Ranges:	Same as ACV	Same as ACV
Resolution:	0.001mV	0.001mV
Basic Accuracy: 40Hz~100KHz	Same as ACV+(1.0%+8d)	Same as ACV+(1.0%+8d)
Input Impedance:10MΩ//<100pF	.	.
DCA: Ranges:	4mA~40mA/10A	10mA~100mA/10A
Resolution:	0.1uA	0.1uA
Basic Accuracy:	±(0.2%+4d)	±(0.1%+4d)
Input Protection: 440mA/1000V & 11A/1000V DC/AC high energy fuse	.	.
<b>ACA:</b>		
Ranges:	4mA~40mA/10A	10mA~100mA/10A
Resolution:	0.1uA	0.1uA
Basic Accuracy: 40Hz~100KHz	±(0.8%+8d)	±(0.7%+8d)
Input Protection: 440mA/1000V & 11A/1000V DC/AC high energy fuse	.	.
<b>(AC+DC)A:</b>		
Ranges:	Same as ACA	Same as ACA
Resolution:	0.1uA	0.1uA
Basic Accuracy: 40Hz~100KHz	Same as ACA+(1.0%+80d)	Same as ACA+(1.0%+80d)
<b>OHM:</b>		
Ranges:	400Ω~40MΩ	1000Ω~10MΩ
Resolution:	0.01Ω	0.01Ω
Basic Accuracy:	±(0.2%+2d)	±(0.025%+2d)
Overload Protection: 1000V rms	.	.
<b>Continuity Beeper:</b>	<50Ω, 2KHz tone buzzer	.
<b>Diode Test:</b>	Open circuit voltage: 3V	±(3.0%+2d)
<b>Frequency Counter:</b>		
Ranges:	10Hz~4.0000MHz	10Hz~4.0000MHz
Resolution:	0.001Hz	0.001Hz
Basic Accuracy:	±(0.002%+1d)	±(0.002%+1d)
Overload Protection: 1000V rms	.	.
<b>%DF:</b>		
Ranges:	20%~80%	20%~80%
Resolution:	0.1%	0.1%
Basic Accuracy:	±6d(20Hz~10KHz, 5Vp-p)	±6d(20Hz~10KHz, 5Vp-p)
<b>Capacitance:</b>		
Ranges:	40nF~40mF	40nF~40mF
Resolution:	0.001nF	0.001nF
Basic Accuracy:	±(0.9%+2d)	±(0.8%+2d)
Overload Protection: 1000V rms	.	.
<b>°C/°F</b>		
Ranges:	-200°C~1200°C	-200°C~1200°C
Resolution:	0.1°C	0.1°C
Basic Accuracy:	±(1%+1°C)	±(1%+1°C)

GENERAL:

	APPA 503	APPA 505
<b>Sampling Rate:</b>	3times/sec	6times/sec
<b>Overload Indication:</b> "OL" or "-OL"	.	.
<b>Low Battery Indication</b>	.	.
<b>Auto Power Off:</b> Selectable from off, 1~ 60 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 UL61010 specifications	CAT. IV. 600V, CAT. III 1000V	CAT. IV. 600V, CAT. III 1000V
<b>Power Requirement:</b> AA size 1.5V x 4 batteries (NEDA 15A or IEC LR6)	.	.
<b>Battery Life:</b> In hours (Alkaline battery)	100	100
<b>Size:</b> 95mm(W) x 200mm (L) x 51,20 mm(H), without holster	.	.
<b>Weight:</b> In grams (with holster)	620	620
<b>Accessories:</b> Test Leads, Alligator Clips, Temp. daptor, Bead probe, Protective Holster, USB cable, WinDMM 500 Software, Magnetic Hanging Kit, Alkaline batteries (installed) and manual	.	.

Specifications subject to change without notice

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# APPA 500 Series Multimeter

## Simple, Smart and Accurate



Distributed by:

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 ISO 9001 CERTIFIED

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



## DAY & NIGHT

An innovative auto ON/OFF backlit feature give you fulltime display visibility and increased battery life.



## BATTERY & FUSE EASY TO REPLACE

Unscrew only one screw to remove battery door for battery replacement and fuse replacement, designed for user's convenience without opening the bottom case.



## OPTICAL INTERFACE

Safe and easy used optical interface to connect to PC for data acquisition. APPA 503 and 505 are self-calibrated in connection with calibrator and PC with calibration software. They also have self-data logging function without connecting to a computer.

## ALL-WEATHER HOUSING

Designed for harsh environments with water tight gasket as the seams rotary switch, input terminal and battery cover to keep out of dust, dirt and splashing. They can also take shocks and drops, work anywhere form indoor to outdoor.



## EXTRA PROTECTION

Ergonomically designed slim shape 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.



## 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. Screw-on insulated alligator clips are standard. Also supplied with a temperature adaptor and bead sensor.



### NEW

#### APPA 503

- 40,000/4,000 count extra large digital display
- 43 segments analog bar graph
- Auto Backlit, Dual display
- Auto AC, DC and AC+DC on Voltage & Current mode with Frequency indication
- Auto selection on Ohm, Diode or Continuity
- On-Screen-Menu Selection
- Navigator Key Drive
- High Frequency Rejection (HFR)
- 0.05% DCV accuracy
- AC+DC True RMS indication
- 0.5 ms Peak Hold
- Auto Hold
- Store/Recall memories
- dBm/dB measurement
- 5000 records data logging capacity
- All Weather Housing
- Optical RS-232/Optional USB interface with Software included
- Included with Magnetic Hanging kit
- CAT. IV 600V/CAT. III 1000V standard

### NEW

#### APPA 505

- 100,000/10,000 count extra large digital display
- 43 segments analog bar graph
- Auto Backlit, Dual display
- Auto AC, DC and AC+DC on Voltage & Current mode with Frequency indication
- Auto selection on Ohm, Diode or Continuity
- On-Screen-Menu Selection
- Navigator Key Drive
- High Frequency Rejection (HFR)
- 0.015% DCV accuracy
- AC+DC True RMS indication
- 0.5 ms Peak Hold
- Auto Hold
- Store/Recall memories
- dBm/dB measurement
- 20000 records data logging capacity
- All Weather Housing
- Optical RS-232/Optional USB interface with Software included
- Included with Magnetic Hanging kit
- CAT. IV 600V/CAT. III 1000V standard

