

FEATURES :	APPA 503	APPA 505	APPA 506(B)	APPA 507
Digital display	4,000 / 40,000 count	10,000 / 100,000 count	4,000 / 40,000 count	50,000 count
Analog bar graph Segments	43	N/A	43	N/A
Self-Calibration	•	•	•	•
True RMS reading	•	•	•	•
Auto Backlit Dual Display	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC
Auto detect AC, DC and AC+DC on Voltage & Current mode with Frequency indication	•	•	N/A	•
Auto Selection on Ohm, Capacitance, Diode or Continuity	N/A	N/A	N/A	N/A
On-Screen-Menu Selection	•	•	•	•
Navigator Key Drive	•	•	•	•
High Frequency Rejection (HFR)	•	•	•	•
Peak Hold	•	•	•	N/A
Auto Hold	•	•	•	•
MIN/MAX/AVG	•	•	•	•
Relative Mode	•	•	•	•
Duty Cycle	•	N/A	•	N/A
Store/Recall memories	1000	1000	1000	100
dBm/dB measurement	•	•	•	N/A
Data Logging Capacity	20,000	20,000	40,000	N/A
Log rate setting	•	•	•	N/A
Optical interface	•	•	•	•
Automatic power shut off with selectable time	•	•	•	•
Brown Guard with Auto fuse detection	•	•	•	•
All weather housing	•	•	•	•
Full Accessories	•	•	•	•

SPECIFICATIONS : (All at 23°C ±5°C, ±80% RH, Multiply accuracy digit by 10 in 40,000/50,000/100,000 count mode.	APPA 503	APPA 505	APPA 506(B)	APPA 507
DCV :				
Ranges	40mV to 1000V	100mV to 1000V	40mV to 1000V	50mV to 1000V
Resolution	1µV	10µV	1µV	1µV
Basic Accuracy	±(0.05%+20d)	±(0.01%+20d)	±(0.03%+10d)	±(0.05%+5d)
ACV :				
Ranges	40mV to 1000V	100mV to 1000V	40mV to 1000V	50mV to 1000V
Resolution	1µV	10µV	1µV	1µV
Basic Accuracy	±(0.4%+20d)	±(0.4%+20d)	±(0.5%+20d)	±(0.5%+20d)
Bandwidth	40Hz to 100kHz	40Hz to 100kHz	40Hz to 100kHz	40Hz to 10kHz
Overload Protection : 1000V rms	•	•	•	•
Ranges & Resolution : Same as ACV, except Accuracy	•	•	•	•
Auto VLoZ	N/A	N/A	N/A	N/A
DCA :				
Ranges	40mA to 10A	10mA to 10A	40mA to 10A	50mA to 1A
Resolution	0.1µA	0.1µA	1µA	1µA
Basic Accuracy	±(0.2%+10d)	±(0.1%+10d)	±(0.2%+10d)	±(0.05%+5d)
Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy fuse	•	•	•	•
ACA :				
Ranges	40mA to 10A	10mA to 10A	40mA to 10A	50mA to 1A
Resolution	0.1µA	0.1µA	1µA	1µA
Basic Accuracy	±(0.8%+80d)	±(0.7%+80d)	±(0.8%+20d)	±(1.0%+20d)
Bandwidth	40Hz to 1kHz	40Hz to 1kHz	40Hz to 10kHz	40Hz to 10kHz
Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy fuse	•	•	•	•
(AC+DCA)				
Ranges & Resolution : Same as ACA, except Accuracy	•	•	•	•
OHM :				
Ranges	40Ω to 40MΩ	100Ω to 40MΩ	40Ω to 40MΩ	50Ω to 50MΩ
Resolution	0.01Ω	0.01Ω	0.01Ω	0.01Ω
Basic Accuracy	±(0.2%+30d)	±(0.02%+30d)	±(0.2%+10d)	±(0.2%+10d)
Continuity & Diode Test	2kHz Tone Buzzer, Open Circuit Voltage : ±3V	<50Ω	10Ω - 50Ω (Ac)	<30Ω
Frequency Counter :				
Ranges	40Hz to 4MHz	40Hz to 4MHz	400Hz to 100kHz	300Hz to 100kHz
Resolution	0.001Hz	0.001Hz	0.01Hz	0.01Hz
Basic Accuracy	±(0.002%+10d)	±(0.002%+10d)	±5d	±3d
Duty Factor :				
Ranges	20% to 80%	20% to 80%	N/A	N/A
Resolution	0.1%	0.1%	N/A	N/A
Basic Accuracy	±(0.1%+10d)	±(0.1%+10d)	N/A	N/A
Capacitance :				
Ranges	4nF to 40mF	4nF to 40mF	40nF to 40mF	1µA
Resolution	1pF	1pF	10pF	N/A
Basic Accuracy	±(0.8%+20d)	±(0.8%+20d)	N/A	N/A
°C / °F :				
Ranges	-200°C to 1200°C	-200°C to 1200°C	-200°C to 1200°C	N/A
Resolution	0.1°C	0.1°C	0.1°C	N/A
Overload Protection : 1000V rms	•	•	•	•
Output :				
Ranges	N/A	N/A	N/A	0mA to 24mA
Source Mode	N/A	N/A	N/A	1µA
Basic Accuracy	N/A	N/A	N/A	±(0.05%+5d)
(Wt. Battery Operation)	N/A	N/A	N/A	>24V / 24mA
Driver	N/A	N/A	N/A	•
Output :				
Ranges	N/A	N/A	N/A	0mA to 24mA
Source Mode	N/A	N/A	N/A	1µA
Basic Accuracy	N/A	N/A	N/A	±(0.05%+5d)
(Ext. 24V Loop Supply)	N/A	N/A	N/A	>24V / 24mA
Driver	N/A	N/A	N/A	•
Output :				
Ranges	N/A	N/A	N/A	50mA
Source Mode	N/A	N/A	N/A	1µA
Basic Accuracy	N/A	N/A	N/A	±(0.05%+5d)
Driver	N/A	N/A	N/A	>24V / 1.25kΩ

GENERAL :	APPA 503	APPA 505	APPA 506(B)	APPA 507
Sampling Rate	31ms/sec	31ms/sec	10ms/sec	10ms/sec
Overload Indication "OL" or "OL"	•	•	•	•
Low Battery Indication	•	•	•	•
Auto Power Off	30 minutes	30 minutes	10 minutes	20 minutes
Operating Temperature : -10°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 UL61010 specifications	•	•	•	•
Power Requirement : AA Size 1.5V x 4 batteries (NEDA 15A or IEC LR6)	CAT IV 600V/CAT III 1000V	CAT IV 600V/CAT III 1000V	CAT IV 600V/CAT III 1000V	CAT IV 600V/CAT III 1000V
Battery Life : In hours (Alkaline battery)	100	100	50	100
Size : 95mm(W) x 207mm(L) x 52mm(H), without holster	•	•	•	•
Weight : In grams (with holster)	630	630	630	630
Accessories : Test Leads, Repair Clips, Temp. diator, Bead probe, Protective Holster, USB cable, Software, Magnetic Hanging Kit, Alkaline batteries (installed) and manual	•	•	•	•

Specifications subject to change without notice.

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APPA
 Advanced Instrument Technology Made Easy

APPA 500 Series Multimeter

Simple, Smart and Accurate



APPA Connect APP

APPA 506B with Bluetooth Ver. 4.0 feature for streaming data via iOS/Android APP on any mobile devices to provide easy Data Acquisition and Analysis.



AUTOMATICALLY VOLTAGE DETECT WITH LOW IMPEDANCE

Special designed LoZ(Low Impedance)with Automatically Voltage detect, prevent false reading caused by ghost voltage.(506,506B)



DAY & NIGHT

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



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. Slip-on insulated alligator clips are standard. Also supplied with a temperature adaptor, bead sensor, magnetic hanging kit, USB cable and CD software.

APPA 503/505

40,000/4,000 count extra large digital display(503)
 100,000/10,000 count extra large digital display(505)
 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
 0.03% DCV accuracy(503)
 0.015% DCV accuracy(505)
 True RMS reading on AC and AC+DC mode
 On-Screen-Menu Selection
 Navigator Key Drive
 High Frequency Rejection (HFR)
 Min/Max/Avg
 Relative/% Function
 Auto Hold/Peak Hold
 Store/Recall memories
 dBm/dB measurement
 20000 records data logging capacity
 USB interface with Software included
 CAT IV 600V/CAT III 1000V standard



NEW

APPA 506/506B Bluetooth

40,000 count digital display and 43 segment analog display
 Large white LED backlight display
 Auto Backlit, Dual display
 AC, DC and AC+DC on Voltage & Current mode with Frequency indication
 0.03% DCV accuracy
 True RMS reading on AC and AC+DC mode
 Auto Store up to 1,000 memories
 Data Logging up to 40,000 records
 Bluetooth(Ver. 4.0, 506B only)
 Auto Calibration
 LoZ for prevent false reading from ghost voltage
 Auto Fuse Detector
 On-Screen-Menu Selection
 Navigator Key Drive
 High Frequency Rejection(LPF)
 Min/Max/Avg
 Relative/% Function
 Auto Hold/Peak Hold
 Store/Recall memories
 Virtual Instrumentation
 Continuity Check/Beeper
 dBm/dB measurement
 USB interface with Software included
 CAT IV 600V/CAT III 1000V standard

APPA 507 Process Multimeter

50,000 count extra large digital display
 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)
 Auto Hold
 0.05% DCV accuracy
 20 mA DC current source / loop calibrator / simulator
 Manual Step (100%, 25%, Coarse, Fine) plus Auto Step and Auto Ramp
 HART mode setting with Loop Power
 USB interface with Software included
 CAT IV 600V/CAT III 1000V standard

