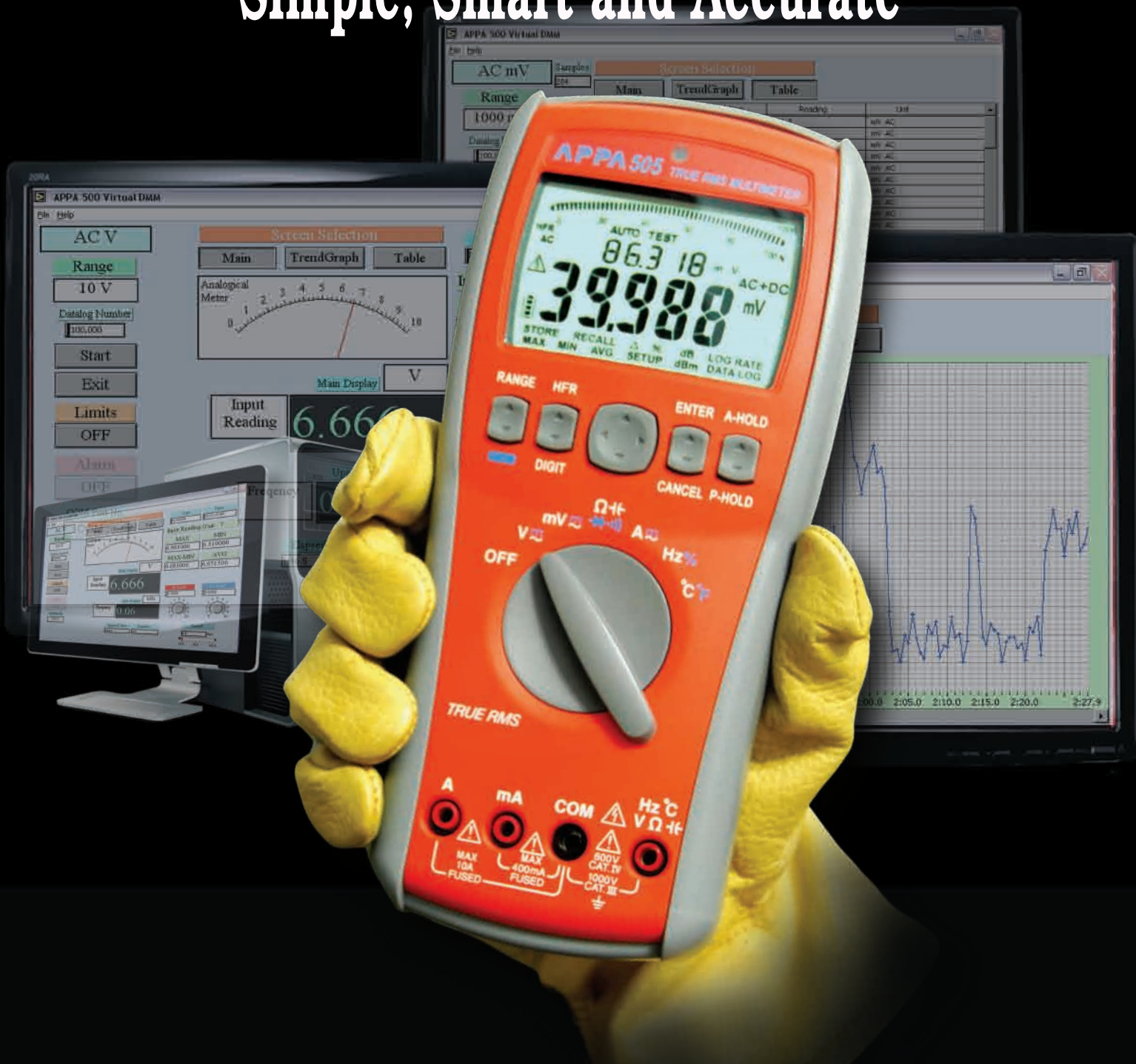


# APPA 500 Series Multimeter

## Simple, Smart and Accurate



# APPA®

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 500 Series are self-calibrated in connection with calibrator and PC with calibration software. APPA 503 and 505 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. 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

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)  
 0.03% 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 USB interface with Software included  
 Included with Magnetic Hanging kit  
 CAT. IV 600V/CAT. III 1000V standard



### NEW

### APPA 507

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  
 Optical USB interface with Software included  
 Included with Magnetic Hanging kit  
 CAT. IV 600V/CAT. III 1000V standard



### 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 USB interface with Software included  
 Included with Magnetic Hanging kit  
 CAT. IV 600V/CAT. III 1000V standard

# APPA 500 SERIES MULTIMETERS

## FEATURES:

	APPA 503	APPA 505	APPA 507
Digital display	4,000/40,000 count	10,000/100,000 count	50,000 count
Analog Bar graph Segments	43	43	N/A
Self-Calibration	•	•	•
True RMS reading	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC
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	•	•	N/A
Auto Hold	•	•	•
MIN/MAX/AVG	•	•	•
Relative Mode	•	•	•
Duty Cycle	•	•	N/A
Store/Recall memories	100	100	100
dBm/dB measurement	•	•	N/A
Data Logging Capacity	20,000	20,000	N/A
Log rate setting	•	•	N/A
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.) The following spec. are listed for maximum display count mode.

	APPA 503	APPA 505	APPA 507
DCV :	Ranges	40mV to 1000V	100mV to 1000V
	Resolution	0.001mV	0.001mV
	Basic Accuracy	±(0.03%+20d)	±(0.015%+20d)
ACV :	Ranges	40mV to 1000V	50mV to 1000V
	Resolution	0.001mV	0.001mV
	Basic Accuracy	±(0.70%+50d)	±(0.4%+50d)
	Bandwidth	40Hz to 100kHz	40Hz to 100kHz
	Overload Protection : 1000V rms	•	•
(AC+DC)V :	Ranges & Resolution : Same as ACV, except Accuracy	•	•
	Ranges	40mA to 10A	10mA to 10A
DCA :	Resolution	1uA	0.1uA
	Basic Accuracy	±(0.2%+4d)	±(0.1%+4d)
	Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy fuse	•	•
ACA :	Ranges	40mA to 10A	10mA to 10A
	Resolution	1uA	0.1uA
	Basic Accuracy	±(0.8%+80d)	±(0.7%+80d)
	Bandwidth	40Hz to 100kHz	40Hz to 100kHz
	Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy fuse	•	•
(AC+DC)A :	Ranges & Resolution : Same as ACA, except Accuracy	•	•
	Ranges	400Ω to 40MΩ	1000Ω to 40MΩ
OHM :	Resolution	0.01Ω	0.01Ω
	Basic Accuracy	±(0.2%+30d)	±(0.025%+30d)
	Continuity & Diode Test : <50Ω 2kHz Tone Buzzer, Open Circuit Voltage : ± 3V	•	•
Frequency Counter :	Ranges	40Hz to 4MHz	40Hz to 4MHz
	Resolution	0.001Hz	0.001Hz
	Basic Accuracy	±(0.002%+1d)	±(0.002%+1d)
Duty Factor :	Ranges	20% to 80%	20% to 80%
	Resolution	0.1%	0.1%
	Basic Accuracy : 5Hz to 10kHz, 5Vp-p	±(0.1%+10d)	±(0.1%+10d)
Capacitance :	Ranges	40nF to 40mF	40nF to 40mF
	Resolution	0.01nF	0.01nF
	Basic Accuracy	±(0.9%+2d)	±(0.8%+2d)
°C/°F	Ranges	-200°C to 1200°C	-200°C to 1200°C
	Resolution : 0.1°C, Basic Accuracy : ±(1%+1°C)	•	•
	Overload Protection : 1000V rms	•	•
Output : Source Mode : (Int. Battery Operation)	Ranges	N/A	N/A
	Resolution	N/A	N/A
	Basic Accuracy	N/A	N/A
Output : Simulate Mode : (Ext. 24V Loop Supply)	Ranges	N/A	N/A
	Resolution	N/A	N/A
	Basic Accuracy	N/A	N/A
Output : Loop Power Mode	Ranges	N/A	N/A
	Resolution	N/A	N/A
	Basic Accuracy	N/A	N/A
	Driver	N/A	N/A

## GENERAL:

	APPA 503	APPA 505	APPA 507
Sampling Rate	3times/sec	6times/sec	6times/sec
Overload Indication: "OL" or "-OL"	•	•	•
Low Battery Indication	□	□	□
Auto Power Off: Selectable from off, 1~ 60 minutes, Default 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 UL61010 specifications	CAT. IV, 600V, CAT. III 1000V	CAT. IV, 600V, CAT. III 1000V	CAT. IV, 600V, CAT. III 1000V
Power Requirement: AA size 1.5V x 4 batteries (NEDA 15A or IEC LR6)	•	•	•
Battery Life: In hours (Alkaline battery)	100	100	100
Size: 95mm(W) x 200mm (L) x 51.20 mm(H), without holster	•	•	•
Weight: In grams (with holster)	620	620	620
Accessories: Test Leads, Alligator Clips, Temp. Adaptor, 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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