

# APPA507

## Combined High End Digital Multimeter and Industrial Process Meter



- 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 intertace with Software included
- CAT IV 600V/CAT III1000V standard

The APPA507 combines a high end Digital Multimeter with an industrial Process Meter. Designed specifically for industrial electricians, instrumentation professionals and control engineers coupling a loop calibrator with the power of a digital Multimeter allows for unrivalled efficiencies during installation and testing. This is achieved by reducing the number of instruments needed onsite and reduced the amount of time spent trouble shooting issues by quickly allowing identification of separate issues between the instrumentation and controls.

In a class of its own regarding accuracy and precision of result:

- 50,000 count display!
- High frequency noise rejection for the industrial environment
- Superior basic accuracies
- Not just AC/DC True RMS but AC + DC functionality for asymmetric/rectified waveforms often seen with the likes of Variable Speed Drives

An additional HART mode setting allows for the testing of HART protocols without the need to carry a separate resistor.

### 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 from 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.



### DAY & NIGHT

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



### 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.



## Features

Digital display	50,000 count
Self-Calibration	■
True RMS reading	AC, AC+DC, HFR AC
Auto Back-lit, Dual Display	■
Auto detect AC, DC and AC+DC on Voltage & Current mode with Frequency Indiction	■
On-Screen-Menu Selection	■
Navigator Key Drive	■
High Frequency Rejection (HFR)	■
Auto Hold	■
MIN/MAX/AVG	■
Relative Mode	■
Store/Recall memoris	100
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 40,000/50

DCV :	Ranges	50mV to 1000V
	Resolution	1uV
	Basic accuracy	±(0.05%+5d)
ACV :	Ranges	50mV to 1000V
	Resolution	1uV
	Basic accuracy	±(0.5%+20d)
	Bandwidth	40Hz to 10kHz
	Overload Protection : 1000V rms	■
(AC+DC)V :	Ranges & Resolution : Same as ACV, except Accuracy	■
DCA :	Ranges	50mA to 1A
	Resolution	1uA
	Basic accuracy	±(0.05%+5d)
	Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy fuse	■
ACA :	Ranges	50mA to 1A
	Resolution	1uA
	Basic accuracy	±(1.0%+20d)
	Bandwidth	40Hz to 10kHz
	Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy fuse	■
(AC+DC)A :	Ranges & Resolution : Same as ACA, except Accuracy	■
OHM :	Ranges	500Ω to 50MΩ
	Resolution	0.01Ω
	Basic accuracy	±(0.2%+10d)
Continuity & Diode Test	2kHz Tone Buzzer, Open Circuit Voltage : ±3V	<30Ω
Frequency Counter :	Ranges	500Hz to 100KHz
	Resolution	0.01Hz
	Basic accuracy	±3d
Output :	Ranges	0mA to 24mA
Source Mode	Resolution	1uA
(Int. Battery Operation)	Basic accuracy	±(0.05%+5d)
	Driver	>24V / 24mA
Output :	Ranges	0mA to 24mA
Simulate Mode	Resolution	1uA
(Ext. 24V Loop Supply)	Basic accuracy	±(0.05%+5d)
	Driver	>24V / 24mA
Output :	Ranges	50mA
Loop Power Mode	Resolution	1uA
	Basic accuracy	±(0.05%+5d)
	Driver	>24V / 1.25KΩ

## General

Sampling Rate :	10times/sec
Overload Indication : "OL" or "-OL"	■
Low Battery Indication	□
Auto Power Off :	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	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
Size : 95mm(W) x 207mm(L) x 52mm(H), without holster	■
Weight : In grams (with holster)	630
Accessories : Test Leads, Alligator Clips, Temp. daptor, Bead probe, Protective Holster, USB cable, Software, Magnetic Hanging Kit, Alkaline batteries (installed) and manual	■



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