

APPA®

OEM CATALOGUE 2021



An **MGL** Brand

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COMMERCIAL TERMS

Product Info

Measurements, weights, characteristics or sizes shown in this catalogue are indicative, and may be modified without prior notice.

Prices and deliveries

Sale prices will be those offered in writing quotations or those included in our current rate at the time of delivery. Supply will be based on the MOQ (minimum order quantity) detailed in this catalogue.

Shipping costs

Shipments will be based on the Incoterm conditions shown in each quotation.

Any other logistics service requested will be negotiated and quoted separately, and must be previously accepted by the client.

Shipping incidences

All shipments will be checked and verified within 48 hours after receipt. If any incident is detected, it must be communicated immediately to the carrier and to MGL customer service.

Merchandise unloading

Merchandise sent by special transports will be unloaded by the receiver.

Deliveries to third parties

In the event of deliveries requested for a different destination to the usual, MGL express consent will be required, and the customer should be responsible for the correct reception as if it was his usual address.

Good return

Good returns will only be admitted if they have been previously justified and expressly accepted by MGL, will be negotiated and quoted separately, and must be previously accepted by the client.

Civil liability

MGL declines all responsibility due to the improper use of its products. The civil liability on our products expires one year after delivery. In case of litigation as a result of a sale, the parties will submit to the jurisdiction of the courts where the principal place of business of the manufacturer is located, waiving both parties to any other jurisdiction that may correspond. The civil liability will be governed by the Law of the State of principal place of business of the manufacturer.

Warranty

All MGL products are guaranteed by the legal period of time governing on each operation.

This warranty does not cover failures caused by improper use or handling.

To execute the guarantee you must contact our Customer Service Center by email: info@mgl-intl.com

Technical specifications included in this price list may be subject to modifications without prior notice.



CONTACT US

Americas Region
info.na@mgl-intl.com

APAC Region
info.apac@mgl-intl.com

EMEA Region
info.emea@mgl-intl.com

WHO IS MGL

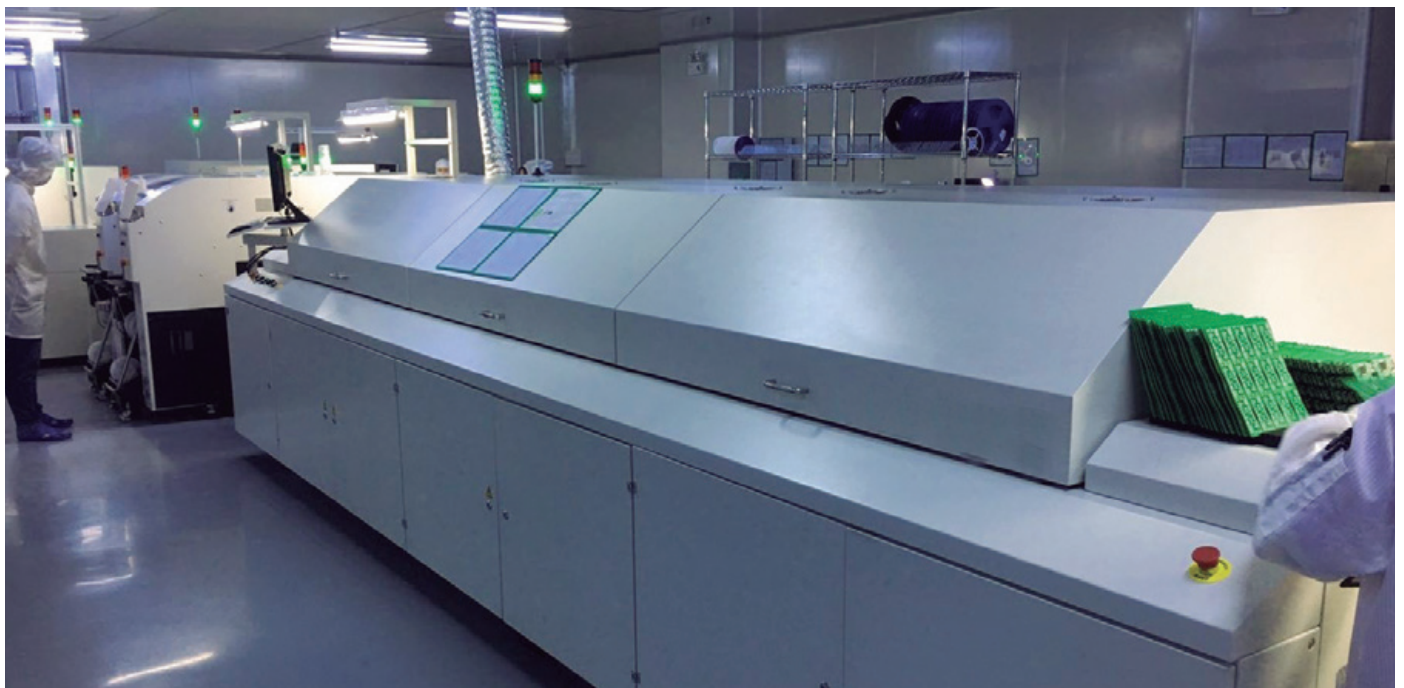
We are a global group of companies operating locally. We develop, manufacture and sell products and solutions for the test and measurement industry under our own brands, such as Mastech, KPS, Power Probe, APPA, C-Logic and PS-Tech. We also offering engineering / manufacturing (ODM) and adaptation / customization (OEM) services. Additionally, we provide other added value solutions such as outsourced and engineered products.



Our companies work globally, serving our customers worldwide. This global network delivers a deeper understanding of each individual market, with solutions tailored to the unique requirements of each customer.

Our goal is to be a recognised, honest and fair company. We aim to be the most valued partner for our customers in the research, development, manufacture and supply of innovative, modern and customer-focused technologies.

We have a highly experienced team which is open-minded, receptive to new ideas and adaptive to evolving market trends. This solid foundation guarantees that we are well informed and fully equipped to deliver excellent solutions to meet our customers' real needs.



MGL AT A GLANCE



More than 800 employees



Annual production of +10 million units per year



Three factories in Taiwan, China and Europe



We manufacture more than 95% of our products, even the accessories

OUR BRANDS

We manufacture electrical test and measurement instruments under our own brands: Mastech, KPS, Power Probe and APPA, recognized brands and market leaders in the fields of electrical measurement and automotive. All of our products have a professional positioning based on advanced balanced technology and they are marketed through local distributors throughout the world.

We maintain direct and close contact with our distributors, through our offices around the world, and we support them in their business by offering technical advice and an after-sales service for our products.

In this fast and competitive global market, choosing a trusted partner to supply quality products to compete in the market is a very important decision for every company.

With OEM and ODM services we offer flexible and scalable production that helps the launching of new products and minimizes the risks of in-house manufacturing. At MGL we have three business models, adapted to the different needs of our customers.

OEM SERVICE

The OEM service refers to products that we have already developed in MGL and for which we offer a customization service, so that other companies can market them with their own brands.

With this service we offer a range of fully finished products that comply with international regulations, since the entire engineering and product design process has already been carried out by MGL.



Advantages of OEM Service

We personalize the product following your corporate identity

From the color plastic injection parts and the marking of the product with its own logo, to the complete packaging and manuals customization.

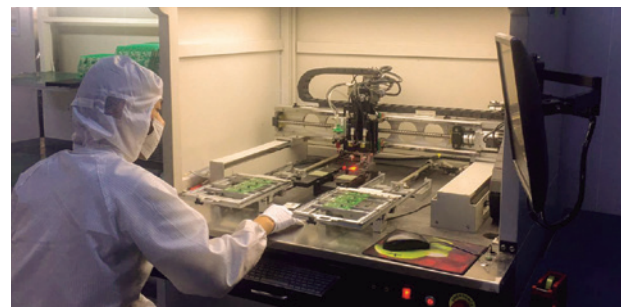


We manufacture at the competitive cost and with minimal risk

Since no investment is necessary for the customer, and with reasonable minimum order quantities.

We minimize the time to launch a product on the market

From the color plastic injection parts and the marking of the product with its own logo, to the complete packaging and manuals customization.



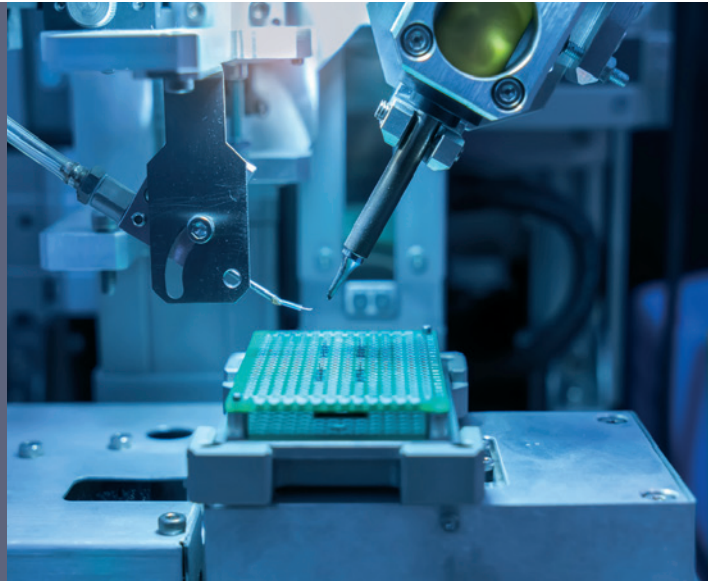
We make the process easier

As several production stages like engineering, prototyping or testing and certification have been already developed by MGL.

ODM SERVICE

Our ODM service will help your business design and develop new and exclusive products under your own brand. This service allows your business to streamline custom projects without having to deal with the day-to-day operations of a factory.

Choosing a trusted partner is key when developing ODM products. We at MGL strive to take the burden of manufacturing off of you, so you can focus on the processes that your business knows best.



Advantages of ODM Service

We turn your ideas into real products, using our extensive experience to turn your product specifications into engineering specifications in order to execute the project quickly and efficiently.

We offer customised designs.

We provide swift production times.



For more information, please ask for our ODM catalogue.



Why choose MGL as an ODM partner

- For our 30 years experience
- For our R&D and quality control, resulting in reliable, safe and accurate products.
- Because we are close to you, with our local teams speaking your language and located in your time zone.
- For our proven professionalism and confidentiality, certified with our comprehensive intellectual property protection and confidentiality agreements.
- For our certifications: we are members of IPC (Association Connecting Electronic Industries) and have an ISO 9001: 2015 certification.

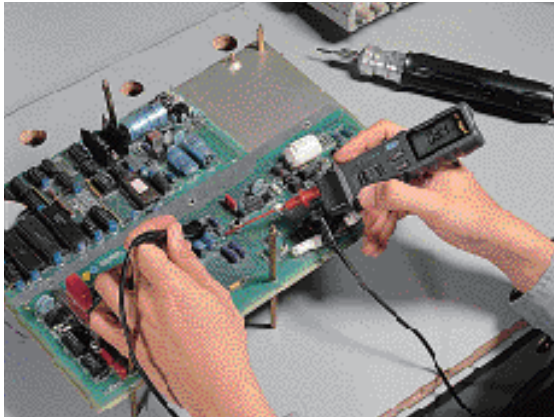
We use external and recognized laboratories for every product we manufacture, in order to provide reliable test reports according to regional and local standards.

- For our technology and production capacity: in our two factories we produce more than 95% of all our components, so we control the entire product production process from product concept to final manufacturing.
- For our financing service: for mould investments or any other capital projects that may be of interest.

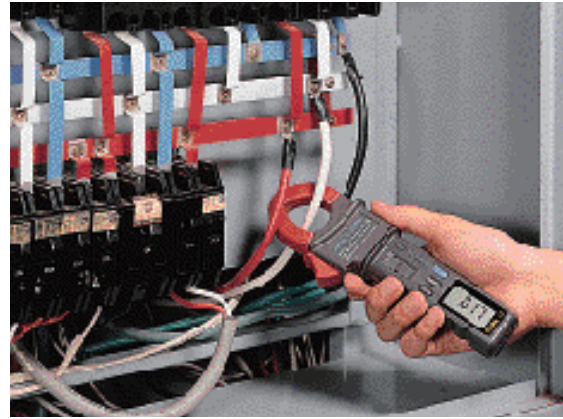
APPA 10 Series COMBIMETER®

**Versatility
In The Palm Of Your Hand**





ACV, DCV, OHM, DIODE,.....Measurement



AC Current Measurement



Temperature Measurement



DC/AC Current Measurement



APPA AC 10S Carrying case

Tough, double wall woven fabric, two way zipper carrying case for APPA 10 series meters. Three separate holders to carry an APPA 17 and two transducers, inside pocket is designed to carry test leads, bead probe and manual.

This deluxe carrying case is also versatile to carry APPA 60 series multimeter, APPA 50 series thermometeretc.



APPA 17

- 3200 count digital resolution
- 65 segment analog bar graph
- Autorranging and manual selection
- 0.7% basic dc Volts accuracy
- 1.7% basic ac Volts accuracy
- 1.0% basic ohms accuracy
- 600V protection in every range
- Fast continuity beeper
- Data hold function
- Auto power off
- Conforms to IEC1010 & UL 3111 specifications
- Standard "AAA" size batteries ,long battery life
- Featured with standard 3/4" pitch input jacks
- Rugged construction with fire retardant, high-impact plastic case
- Soft carrying case included



NEW
APPA 17A

- 4200 count digital resolution
- Autorranging and manual selection
- 0.5% basic dc Volts accuracy
- 1.5% basic ac Volts accuracy
- 0.8% basic ohms accuracy
- 600V protection in every range
- Fast continuity beeper(0.2msec)
- Data hold function
- REL Δ function
- Auto power off
- Adapt function with serial options
- Conforms to IEC1010 & UL 3111 specifications
- Standard "AAA" size batteries ,long battery life
- Featured with standard 3/4" pitch input jacks
- Rugged construction with fire retardant, high-impact plastic case
- Soft carrying case included



APPA 11

- Converts any DMM into a thermometer
- 50°C to 1000°C (-58°F to 1830°F) range
- °C/°F switchable
- Flashing light operating indication
- Battery voltage check
- K type Bead thermocouple sensor included (-40°C to 204°C)
- Standard 9V battery



APPA 15

- AC 300A Capability
- 1.9% basic accuracy
- Non-intrusive transducing
- Up to 29mm dia. conductor
- Ergonomically designed jaw and trigger
- Hand guard designed

SPECIFICATIONS: (All at 23°C±5°C, ≤ 80% RH)

APPA 17 Pen-type Multimeter

DC Voltage:

Range: 320mV ~ 600V
 Accuracy: ±(0.7%+2d)
 Input Resistance: 10MΩ
 Overload Protection: 600V

AC Voltage:

Range: 3.2V~ 600V
 Accuracy: ±(1.7%+5d) at 40Hz~500Hz
 Input Impedance: 10MΩ//<100pF
 Overload Protection: 600V rms

Resistance:

Range: 320Ω~30MΩ
 Accuracy: 1.2%+4d at 320Ω
 1.0%+2d at 3.2kΩ~320kΩ
 1.5%+3d at 3.2MΩ
 3.0%+5d at 30MΩ
 Overload Protection: 600V rms

Continuity Beeper: <20Ω, 2kHz tone buzzer

Diode Test: Open circuit voltage 3.3V max.

Measuring rate: 2 T/S digital, 12 T/S analog

Temperature Coefficient: 0.15x(Spec. Accuracy)/°C <18°C or > 28°C

Operating Temperature: 0°C ~ 50°C, ≤ 80% RH.

Storage Temperature: -20°C ~ 60°C

Relative Humidity: 0 ~ 80% (0°C ~ 35°C)
 0 ~ 60% (35°C ~ 50°C)

Safety: Conforms to IEC 1010 and UL 3111 specifications

Power Requirements: IEC LR03, UM4 or AAA size 1.5Vx2

Battery Life: 800 Hours (Alkaline)

Size: 145mm(L) x 42mm(W) x 24mm(D), without probes

Weight: 120 grams, without probes

Included With Instrument:

Test leads set, ZnC battery (installed),
 Carrying case and manual

APPA 11 Thermocouple Module

SPECIFICATIONS:

Temperature Scale: Celsius or Fahrenheit user-selectable

Input: Single K-type thermocouple

Output to Meter: 1mVdc per°C or °F

Measurement Range: -50°C ~ 1000°F
 -58°F ~ 1830°F

Accuracy:

±(0.5%+2°C), -19°C ~ 350°C
 ±(0.5%+4°F), -3°F ~ 662°F
 ±(2.0%+2°C), 351°C ~ 500°C
 ±(2.0%+4°F), 663°F ~ 932°F
 ±(2.9%+2°C), 501°C ~ 1000°C
 ±(2.9%+4°F), 933°F ~ 1832°F
 ±(2.0%+2°C), -50°C ~ -20°C
 ±(2.0%+4°F), -58°F ~ -4°F

Operating Temperature: 0°C ~ 50°C, ≤ 80% RH

Storage Temperature: -20°C ~ 60°C

Temperature Coefficient: 0.15 x (Spec. Accuracy) per °C, <18°C or >28°C

Relative Humidity: 0% ~ 80%

Power Requirement: Standard 9V battery,
 NEDA 1604 JIS 006P IEC 6F22

Battery Life: Alkaline 500 hours

Size: 122mm(L) x 46mm (W) x 30mm(D)

APPA 17A Pen-type Multimeter

DC Voltage:

Range: 4.2V ~ 600V
 Accuracy: ±(0.5%+2d)
 Input Resistance: ≥9MΩ
 Overload Protection: 600V

AC Voltage:

Range: 4.2V~ 600V
 Accuracy: ±(1.7%+5d) at 40Hz~500Hz
 Input Impedance: 9MΩ//< less than 100pF
 Overload Protection: 600V rms

Resistance:

Range: 420Ω~42MΩ
 Accuracy: 1.2%+8d at 420Ω
 0.9%+4d at 4.2kΩ~42kΩ
 1.2%+4d at 420KΩ~4.2MΩ
 3.0%+7d at 42MΩ
 Overload Protection: 600V rms

Continuity Beeper: <50Ω, 2kHz tone buzzer

Diode Test: Open circuit voltage 3.3V max.

Measuring rate: 2 T/S digital.

Temperature Coefficient: 0.15x(Spec. Accuracy)/°C <18°C or > 28°C

Operating Temperature: 0°C ~ 50°C, ≤ 80% RH.

Storage Temperature: -20°C ~ 60°C

Relative Humidity: 0 ~ 80% (0°C ~ 35°C)
 0 ~ 60% (35°C ~ 50°C)

Safety: Conforms to IEC 1010 and UL 3111 specifications

Power Requirements: IEC LR03, UM4 or AAA size 1.5Vx2

Battery Life: 800 Hours (Alkaline)

Size: 145mm(L) x 42mm(W) x 24mm(D), without probes

Weight: 120 grams, without probes

Included With Instrument:

Test leads set, ZnC battery (installed),
 Carrying case and manual

APPA 11H RELATIVE HUMIDITY TRANSDUCER

SPECIFICATIONS:

Output to Meter: 1mVdc per 1%RH

Measurement Range: 10%RH ~ 95%RH

Accuracy:

±7%, 10%RH ~ 20%RH
 ±5%, 20%RH ~ 35%RH
 ±3%, 35%RH ~ 75%RH
 ±5%, 75%RH ~ 90%RH
 ±7%, 90%RH~ 95%RH

Operating Temperature: 5°C ~ 45°C, (10%RH ~ 95%RH)

Storage Temperature: -20°C ~ 60°C, (0%RH ~ 50%RH)

Temperature coefficient: 0.2x(Spec. Accuracy) per°C,
 <18°C or >28°C

Relative Humidity: 10% ~ 95%

Power Requirement: Standard 9V battery,
 NEDA 1604 JIS 006P IEC 6F22

Battery Life: Alkaline 300 hours

Size: 131mm(L)x52mm(W)x30mm(D)

APPA 15 AC Current transducer

Current Range: 0.1A to 300A a.c. RMS
Output Voltage: 1mV a.c. per 0.1 Amp a.c.
Working Voltage: 600V Cat. II per IEC 1010
Accuracy: $\pm(1.9\%+0.5A)$, 50Hz to 60Hz
 $\pm(3.9\%+1A)$, 40Hz to 400Hz
Operating Temperature: 0°C ~ 50°C, $\leq 80\%$ RH.
Storage Temperature: -20°C ~ 60°C
Safety : Designed to IEC 1010 AND UL3111 specifications
Jaw Opening: $\varnothing 30$ mm max.
Conductor Size: Up to 29mm diameter
Size: 72mm(W) x 102mm(L) x 36mm(D)
Weight: 150 gms

APPA 32 DC/AC Current transducer**AC CURRENT:**

Ranges: 100A, 600A
Resolution: 10mV/A, 1mV/A
Accuracy: 45Hz-400Hz
 $\pm(2\%+2A)$ In 100A range
 $\pm(2\%+2A)$, 100-400A
 $\pm(3\%+2A)$, 400-600A

DC CURRENT:

Ranges: 100A, 600A
Resolution: 10mV/A, 1mV/A
Accuracy: $\pm(2\%+2A)$ In 100A range
 $\pm(2\%+2A)$, 100 ~ 400A
 $\pm(3\%+2A)$, 400 ~ 600A

Load Impedance: 100K Ω min

Position Error: $\pm 1\%$ rdg

Output Voltage: AC/DC, 10mV/A in 100A, 1mV/A in 600A

Type of Sensing: Hall effect sensing for AC and DC

Low Battery Indicator: Red LED

Operating Temperature: 0°C ~ 50°C, $\leq 80\%$ R.H.

Storage Temperature: -20°C ~ 60°C

Temperature Coefficient: $0.2 \times (\text{spec. Acc'y}) / ^\circ\text{C}$, $< 18^\circ\text{C}$ or $> 28^\circ\text{C}$

Shock Proof: 4 feet drops

Safety: Designed to IEC 1010 and UL 3111 specifications.

Maximum Conductor Size: $\varnothing 34$ mm

Maximum Jaw Opening: 38mm

Maximum Busbar Size: 20x40mm

Power Requirement: Single 9V battery (NEDA 1604, IEC 6F22)

Battery Life: In hours (Alkaline battery) 45

Size: 60x203x27, w/o cable

Weight: 320 grams

Included with Instrument: Coiled cable output plugs (Installed)
 Carrying case and user's manual

APPA 25

The Best Value Automotive Multimeter



- 11 Function: DC Voltage
AC Voltage
DC Current
Resistance
Frequency Counter
Temperature Test
RPM Measurement
Duty Cycle
Dwell Test
Diode Test
Continuity Buzzer
- Auto power off extends battery life
- Easy to Use single rotary switch
- 4 Feet drop proof
- Full test lead set (probes + clips)
- Optional protective holster with tilt stand



APPA 25 Digital Engine Analyzer

SPECIFICATIONS:

(All specifications at 23°C ±5°C, less than 80% R.H.)

DC VOLTAGE:

Range: 200mV, 2V, 20V, 200V
Accuracy: ±(0.5% + 1d)
Input Impedance: 10M ohm
Overload Protection: 600 Vr.m.s.
Resolution: 0.1mV

AC VOLTAGE:

Range: 200V, 600V
Accuracy: ±(1.5% + 5d) at 40Hz ~ 500 Hz
Input Impedance: 10MΩ < 100pF
Overload Protection: 600 Vr.m.s.
Resolution: 0.1V

HIGH TACH:

Range: 0 ~ 10000 RPM, reading x 10 (4 cyl, 5 cyl, 6 cyl, 8 cyl)
Accuracy: ±(1.5% + 50 RPM)
Overload Protection: 250VDC/AC peak, within 20 sec.
Resolution: 10 RPM

LO TACH:

Range: 0 ~ 2000 RPM (4 cyl, 5cyl, 6cyl, 8cyl)
Accuracy: ±(1.5% + 5 RPM)
Overload Protection: 250VDC/AC peak, within 20 sec.
Resolution: 1 RPM

DUTY CYCLE:

Range: 0 ~ 100.0%
Accuracy: ±(1.5% + 2d)
Overload Protection: 250VDC/AC peak, within 20 sec.
Resolution: 0.1%

DWELL DEGREES:

Range: 0 ~ 90.0°C (4 cyl)
 0 ~ 50.0°C (6 cyl)
 0 ~ 45.0°C (8 cyl)
Accuracy: ±(1.5% + 2d)
Overload Protection: 250VDC/AC peak, within 20 sec.
Resolution: 0.1°

RESISTANCE:

Range: 200 ohm, 2K ohm, 20K ohm, 200K ohm, 2M ohm.
Accuracy: 200 ohm ±(0.8% + 4d)
 2K ohm ~ 2M ohm ±(0.8% + 1d)
Overload Protection: 600 Vr.m.s.

DIODE & BUZZER:

Open Circuit Voltage: 3.2V max.
Accuracy: ±(1.5% + 5d) for test diode forward voltage
Buzzer Description: Built-in buzzer sounds when resistance is less than 50 ohms
Overload Protection: 500VDC/AC r.m.s.

DC CURRENT:

Range: 15A
Accuracy: ±(2.0% + 3d)
Overload Protection: 15A/250V fast blow fuse
Resolution: 0.01A


FREQUENCY COUNTER:

Range: 2KHz, 20KHz
Accuracy: ±(1.0% + 3d)
Input Protection: 600 Vr.m.s.

TEMPERATURE:

Range: -20°C ~ 800°C, -4°F ~ 1472°F
Accuracy: -20°C ~ 350°C, -4°F ~ 662°F. ±(2% + 4°C/8°F)
 351°C ~ 500°C, 663°F ~ 932°F. ±(2% + 2°C/4°F)
 501°C ~ 800°C, 933°F ~ 1472°F. ±(3% + 2°C/4°F)
Resolution: 1°C or 1°F

GENERAL:

Display: 3-1/2 digit LCD with Max. reading of 1999
Polarity: Auto polarity, (-) sign turn on at minus
Overrange Indication: "1" or "-1"
Low Battery Indication:  is displayed when the battery voltage drops below the operating voltage
Measurement Rate: 2.5 times per second, normal
Operating Temperature: 0°C to +50°C (below 80% R.H.)
Storage Temperature: -20°C to +60°C (below 80% R.H.)
Temperature Coefficient: 0.15 x (Spec. accuracy) / °C, (<18°C or > 28°C)
Power Requirements: Single 9V battery (NEDA 1604, IEC 6F22)
Battery Life: 350 hours typical (alkaline)
Size: 84mm(W) x 175mm(L) x 31mm(H)
Weight: 330 gms
Accessories: Test leads, battery (installed) and manual



AH-90/100 Protective Holster

Easy-to Clean, nail hook holster absorbs shocks and protects meter. Lead and probe storage on back, lean or stand in best viewing position.



AC-90/100 Soft Carrying Case

Two way zipper double wall vinyl-leather carrying case for APPA 90/100 series meters. Inside pockets are designed to carry a manual and test lead. Convenient 4.5"(110mm) belt loop accommodates tool belts.



50BK K-type Bead Probe

General purpose applications, low cost. Teflon tape insulation. Not suitable for liquid immersion. Measurement range: -40°C to 204°C (-40°F to 399°F)



50IK K-type Immersion Probe

For engine coolant, brake and transmission fluid, other liquids and gels. Protected from tip to handle by an Inconel sheath. Suitable for general temperature measurement applications. Measurement range: -196°C to 800°C (-320°F to 1472°F)

APPA 30 Series

The State-of-the-Art Clamp-On Measuring Instruments



AC CURRENT TRANSDUCER

AC/DC CURRENT TRANSDUCER



APPA 31

- AC 400A capability
- 1.9% basic accuracy
- Non-intrusive transducing
- Up to 29mm diameter conductor
- 5 feet drop proof
- Coiled cable output plugs
- Ergonomically designed jaw and trigger
- Hand guard designed
- Carrying case included
- CAT II 600V Safety Standard



APPA 39T

- AC/DC 1000A capability
- Auto zero key for DCA
- Red LED-Low battery indication
- GreenLED-Power on indication
- Coiled cable output leads
- Insulated input jacks
- Standard 9V battery
- Up to 51mm dia. (2") conductor
- Up to 24x60mm busbar
- 4 feet drop proof
- Deluxe carrying case
- Hand guard designed
- CAT III 600V Safety Standard



APPA 30T

- AC/DC 300A capability
- Auto zero key for DCA
- Red LED-Low battery indication
- GreenLED-Power on indication
- Coiled cable output leads
- Insulated input jacks
- Standard 9V battery
- Up to 22mm dia. conductor
- 4 feet drop proof
- Deluxe carrying case
- Hand guard designed
- CAT III 600V Safety Standard

AC/DC CURRENT/VOLTAGE/RESISTANCE CLAMP METER



APPA 30R (True-RMS reading)

- 4000 count digital display
- Autoranging
- Dual Hall sensor
- Nickel-Steel alloy jaw mechanism**
- AC/DC 300 Amps capability
- AC/DC 600 Volts capability
- 0.5% basic DCV accuracy
- 1.5% basic ACV accuracy
- 0.9% basic OHM accuracy
- Continuity Beeper
- 10mA resolution
- Auto-Zeroing key for DCA
- Data hold function
- MAX hold function
- Auto power off selectable
- 600V protection in every range
- Up to 22mm dia (350 MCM) conductor
- 4 feet drop proof
- Insulated input jacks
- Hand guard designed
- Deluxe carrying case
- CAT II 600V Safety Standard



NEW

APPA 36RIII(True-RMS reading)

- 6000 Count digital display
- Large white LED backlight display
- Autoranging
- AC/DC 600A Capability
- AC/DC 600V Capability
- 10mA resolution
- True RMS reading on ACA/ACV**
- Frequency Counter on ACA/ACV
- 40M Ohms Resistance capability
- Diode Test
- Smart Data Hold
- Zeroing Key
- Max Hold
- Auto Power Off (can be disabled)
- Up to 36mm dia. Conductor
- 4 feet Drop Proof
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- Deluxe carrying case
- CAT III 600V Safety Standard



APPA 39MR (True-RMS reading)

- 4000 count digital display
- AC/DC 1000A in specification, and 2000A overload protection
- AC 600V, DC 1000V capability
- Autoranging
- Dual Hall sensor
- Nickel-Steel alloy jaw mechanism**
- 0.7% basic DCV accuracy
- 1.2% basic ACV accuracy
- 1.0% basic OHM accuracy
- 0.5% basic Hz accuracy
- CONTINUITY beeper
- True RMS reading in ACV/ACA**
- Frequency measurement through input jack or clamp-on
- PEAK HOLD function
- Auto-Zero key for DCA
- Auto Power Off
- Up to 51mm dia. (2") conductor
- Up to 24 x 60mm busbar
- 4 feet drop proof
- Insulated input jacks
- Hand guard designed
- Deluxe carrying case
- CAT II 1000V Safety Standard



APPA 33II

APPA 33RII (True-RMS reading)

- 2000 count large scale LCD display
- AC 600 Amps capability
- AC 600 Volts capability
- 2000 Ohms Resistance range
- True RMS ACV/ACA (APPA33RII)
- Continuity Beeper
- Display Hold
- Auto power off
- 600 Volts circuit protection
- Insulated input jacks
- Up to 34mm dia. (750MCM) conductor
- 4 feet drop proof
- Protective carrying case
- Hand guard designed
- CAT III 600V/CAT II 1000V Safety Standard

APPA 30 SERIES CLAMP MULTIMETERS

SPECIFICATIONS:(All at 23°C±5°C, ≅ 80% R.H.)		APPA 31	APPA 30T	APPA 39T	APPA 30R	APPA 33II/33RII	APPA 36RIII	APPA 39MR
ACV:	Ranges				400mV~600V	600V	600V	400V, 600V
	Resolution				0.1mV	0.1V	1mV	0.1V
	Accuracy				±(1.5%+5d) at 50Hz~500Hz	±(1.2%+3d) at 40Hz~500Hz	±(1.5%+5d) at 40Hz~400Hz	±(1.2%+5d) at 50Hz~500Hz
	Input Impedance				10MΩ // <100pF	10MΩ // <100pF	10MΩ	1MΩ // <100pF
	Overload Protection				600V rms	600V rms	600V rms	850V rms
DCV:	Ranges				400mV~600V			400V, 1000V
	Resolution				0.1mV		1mV	0.1V
	Accuracy				±(0.5%+2d)		±(0.7%+2d)	±(0.7%+2d)
	Input Impedance				10MΩ		10MΩ	1MΩ
	Overload Protection				600V rms	600V rms	600V rms	850V rms
ACA:	Ranges	4000A	40A, 300A	100A, 1000A	40A, 300A	200A, 600A	60A, 600A	400A, 600A, 1000A
	Resolution	1mV/A	10mV/A, 1mV/A	10mV/A, 1mV/A	0.01A	0.1A	0.01A	0.1A
	Accuracy	50Hz~60Hz ±(1.9%+0.5A), 0A~350A	40Hz~400Hz ±(1%+0.1A), 0A~40A	40Hz~400Hz ±(1.9%+2A), 0A~100A	40Hz~1KHz ±(2%+7d), 0A~4A	50Hz~60Hz ±(1.9%+5d), 0A~200A	40Hz~400Hz ±(1.9%+5d)	40Hz~400Hz ±(1.5%+5d), 0A~600A
	Conversion Type	±(3.2%+1A), 350A~400A	±(1%+1A), 40A~200A	±(1.9%+7A), 100A~400A	±(2.5%+5d), 4A~200A	±(1.5%+5d), 200A~400A		40Hz~200Hz ±(2.5%+5d), 600A~1000A
	Frequency:				True-RMS	RMS/True-RMS	True-RMS	True-RMS
DCA:	Ranges		40A, 300A	100A, 1000A	40A, 300A		60A, 600A	400A, 600A, 1000A
	Resolution		10mV/A, 1mV/A	10mV/A, 1mV/A	0.01A		0.01A	0.1A
	Accuracy		±(1%+0.1A), 0A~40A	±(2.9%+2A), 0A~100A	±(1.5%+2d), 0A~200A		±(1.9%+5d)	±(1.0%+3d), 0A~600A
	Overload Protection		±(1%+1A), 40A~200A	±(1.9%+7A), 100A~400A	±(2%+2d), 200A~300A			±(1.9%+5d), 600A~1000A
			±(1.9%+2A), 200A~300A	±(2.9%+5A), 400A~600A				
OHM:	Ranges				400Ω~40MΩ	2KΩ	600Ω~40MΩ	4KΩ, 40KΩ
	Resolution				0.1Ω	1Ω	0.1Ω	1Ω
	Accuracy				±(1.2%+6d), 0Ω~400Ω	±(1.5%+2d)	±(0.9%+5d), 0Ω~600Ω	±(1%+2d)
	Overload Protection				±(0.9%+3d), 400Ω~4KΩ		±(0.9%+2d), 600Ω~6MΩ	
					±(1.2%+3d), 4KΩ~4MΩ		±(1.5%+5d), 6MΩ~40MΩ	
Continuity Test:	Threshold			< 50Ω approx.	< 50Ω approx.	< 20Ω approx.	< 100Ω approx.	
Diode Test:	Indicator			2KHz tone buzzer	2KHz tone buzzer	2.7KHz tone buzzer	2KHz tone buzzer	
Diode Test:	Open circuit voltage: ±1.8V max							
Load Impedance:	AC and DC			100KΩ min				
Position Error		±1%rdg	±1%rdg	±1%rdg		±1%rdg	±1%rdg	
Output Voltage	AC 1mV per 1A	10mV/A in 40A 1mV/A in 300A	10mV/A in 100A 1mV/A in 1000A					
Type of Sensing:	Current transformer sensing							
	Hall effect sensing							

GENERAL:

Display: LCD digital readout				4000 count	2000 count	6000 count	4000 count
Sampling Rate				2times/sec	4times/sec	3times/sec	2times/sec
Overrange Indication				"OL"	"OL"	"OL"	"OL"
Low Battery Indication		Red LED	Red LED				
Auto Power Off: Approx. 30 minutes							10 minutes
Operating Temperature: 0°C~50°C, ≅ 80% RH							
Storage Temperature: -20°C ~ 60°C							
Temperature Coefficient: 0.2x(Spec. Acc)/°C, <18°C or >28°C							
Shock Proof: 4 feet drops							
Safety: IEC 61010 and designed to meet UL3111	CAT II 600V	CAT III 600V	CAT III 600V	CAT II 600V	CAT III 600V	CAT III 600V	CAT III 600V CAT II 1000V
Maximum Conductor Size	Ø29mm	Ø22mm	Ø51mm	Ø22mm	Ø34mm	Ø36mm	Ø51mm
Maximum Jaw Opening	30mm	25mm	53mm	25mm	37mm	43mm	53mm
Maximum Busbar Size			24x60mm				24x60mm
Power Requirement: Single 9V battery (NEDA 1604/IEC 6F22)				AAA Size 1.5Vx2			
Battery Life: In hours (Alkaline battery)		66	66	100	200	150	40
Size: WxLxD in mm	72x148x36, w/o cable	65.5x185x40, w/o cable	90x232x32, w/o cable	66x192x27	76x200x41	88x208x41	100x265x42
Weight: In grams	250	320	420	205	360	330	420
Included with meter: Safety test leads							
	Battery(Zn/C)	Installed	Installed	Installed	Installed	Installed	Installed
	Coiled cable output plugs	Installed	Installed	Installed			
	User manual						
	Carrying case						

APPA 36R III

All New Designed AC/DC Clamp Multimeter





NEW

APPA 36RIII

6000 Count digital display

Large white LED backlight display

Autoranging

AC/DC 600A Capability

AC/DC 600V Capability

10mA High resolution

True RMS reading on ACA/ACV

Frequency Counter on ACA/ACV

40M Ohms Resistance capability

Diode Test

Smart Data Hold

Zeroing Key

Max Hold

Auto Power Off(can be disabled)

Up to 36mm dia. Conductor

4 feet Drop Proof

Hand Guard & Stream Line Designed

Convenient Battery Door

CAT III 600V/ CAT IV 300V Safety Standard

APPA 36RIII CLAMP MULTIMETERS

FEATURES:

FEATURES:	APPA 36RIII
Digital display	6000 count
Large white LED backlight display	•
Autoranging	•
True RMS reading on ACA/ACV	•
Frequency Counter on ACA/ACV	•
40M Ohms Resistance capability	•
Diode Test	•
Data Hold	Smart Data Hold
Zeroing Key	•
Max Hold	•
Auto Power Off (can be disabled)	•
Hand Guard & Stream Line Designed	•
4 feet Drop Proof	•
Convenient Battery Door	•

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

ACV:	Ranges	600V
	Resolution	1mV
	Basic Accuracy	±(1.5%+5d) at 40Hz~400Hz
	Input Impedance	10MΩ
	Overload Protection	600V rms
DCV:	Conversion Type	True-RMS
	Ranges	600V
	Resolution	1mV
	Basic Accuracy	±(0.7%+2d)
	Input Impedance	10MΩ
ACA:	Overload Protection	600V rms
	Ranges	60A, 600A
	Resolution	0.01A
	Basic Accuracy	±(1.9%+5d) at 40Hz~400Hz
	Conversion Type	True-RMS
Frequency:	Ranges	50KHz
	Basic Accuracy	±(1%+2d)
DCA:	Ranges	60A, 600A
	Resolution	0.01A
	Basic Accuracy	±(1.9%+5d)
OHM:	Ranges	600Ω~40MΩ
	Resolution	0.1Ω
	Basic Accuracy	±(0.9%+5d), 0Ω~600Ω
		±(0.9%+2d), 600Ω~6MΩ
		±(1.5%+5d), 6MΩ~40MΩ
Continuity Test:	Overload Protection	600V rms
	Threshold	< 20Ω approx.
Diode Test:	Indicator	2.7KHz tone buzzer
	Ranges	1.500V
	Basic Accuracy	±(1.5%+3d)
Position Error		±1%rdg
Type of Sensing		Hall effect sensing

GENERAL:

Display: LCD digital readout	6000 count
Sampling Rate	3times/sec
Overrange Indication	"OL"
Low Battery Indication	⏻
Auto Power Off: Approx. 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	•
Shock Proof: 4 feet drops	•
Safety: IEC 61010-1 and designed to meet UL 61010-1	CAT III 600V
Maximum Conductor Size	Ø36mm
Maximum Jaw Opening	43mm
Power Requirement: 9V battery*1 (NEDA 1604/IEC 6F22)	•
Battery Life: In hours (Alkaline battery)	150
Size: WxLxD in mm	88x208x41
Weight: In grams	330
Accessories: Safety Test Leads, ZnC batteries (installed), Carrying case and Manual	•

APPA 50 Series

The Toughest Meters For Temperature
Test & Measurements





APPA 51 Thermometer

- K-type Thermocouple
- Large LCD display (18.5 mm)
- 1°C or 0.1°C (1°F or 0.1°F) resolution
- 0.3% + 1°C basic accuracy
- °C or °F display
- Maximum Record
- Reading hold function
- Standard 9V battery
- Protective holster with tilt stand
- Bead probe included



APPA 52 Thermometer

- K-type Thermocouple
- Large LCD display (18.5 mm)
- Dual thermocouple input
- Differential temperature (T1-T2)
- 1°C or 0.1°C (1°F or 0.1°F) resolution
- 0.3% + 1°C basic accuracy
- °C or °F display
- Maximum Record
- Reading hold function
- Standard 9V battery
- Protective holster with tilt stand
- Two bead probes included



NEW
APPA 53II

- Triple 4 digit large LCD display shows main reading plus MIN, MAX or AVG.
- MIN, MAX, and AVG display with Real Time Stamp
- Auto calibration with excellent accuracy
- Measure K, J-Types of thermocouples
- Selectable °C, °F, or K reading
- Easy to use panel design
- Data logging up to 16,000 records
- Optical RS-232 interface
- Auto Power Off with selectable time setting
- Protective Holster with tilt stand
- Bead probe included
- Optional optical RS-232 cable and Win DTM 50 software



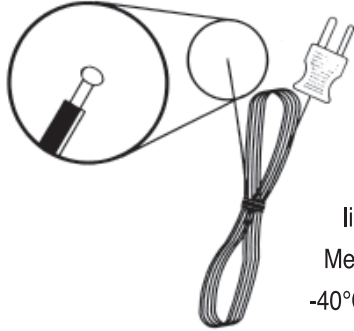
NEW
APPA 55II

- Triple 4 digit large LCD display shows any combination of T1, T2, T1-T2 plus MIN, MAX and AVG.
- MIN, MAX, and AVG display with Real Time Stamp
- Auto calibration with excellent accuracy
- Measure K, J-Types of thermocouples
- Selectable °C, °F, or K reading
- Easy to use panel design
- Data logging up to 16,000 records
- Optical RS-232 interface
- Auto Power Off with selectable time setting
- Protective Holster with tilt stand
- Two bead probes included
- Optional optical RS-232 cable and Win DTM 50 software

Temperature Probes For APPA 50 Series Handheld Thermometers

The following interchangeable Type K thermocouples include mini-connectors for use with APPA 50 series meters or other temperature measuring instruments that accept mini-connectors.

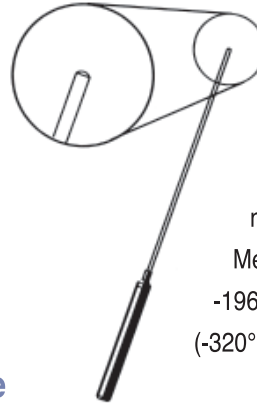
50BK Bead Probe



Included with APPA 50 series. General purpose applications. Teflon tape insulation. Not suitable for liquid immersion.

Measurement range:
-40°C to 204°C
(-40°F to 399°F)

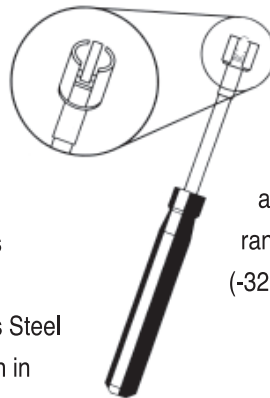
50IK Immersion Probe



For liquids and gels. Protected from tip to handle by an Inconel sheath. Suitable for general temperature measurement applications.

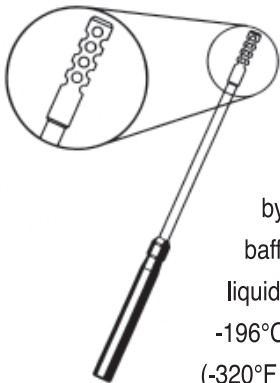
Measurement range:
-196°C to 800°C
(-320°F to 1472°F)

50SK Surface Probe



For flat or slightly convex surfaces. Ideal for measurement of hot rollers and plates. Measurement range: -0°C to 400°C (-32°F to 752°F)

50AK Air Probe



For air and gases. Measuring bead is protected by perforated Stainless Steel baffle. Not for immersion in liquid. Measurement range: -196°C to 500°C (-320°F to 932°F)

50PK Piercing Probe



Suitable for food service. Also suitable for liquids and gels. Measurement range: -196°C to 800°C (-320°F to 1472°F)



Virtual Instrumentation.... APPA 53II & 55II Digital Thermometer have an optional purchased optical RS-232 cable and powerful, comprehensive Win DTM 50 software which enables a safe and easy connection to PCs for further data acquisition and analysis.



Every APPA 50 Series meter is supplied with a protective holster that includes a built-in tilt stand and a nail hook. This holster provides an extra degree of protection and convenience for your meter.

APPA 50 & 50II SERIES MULTIMETER

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

		APPA51	APPA52	APPA53II	APPA55II
Measurement	K-type, -50°C~1300°C, -58°F~1999°F	•	•	N/A	N/A
Range:	K-type, -200°C~-1372°C, -328°F~2501°F	N/A	N/A	•	•
	J-type, -210°C~1200°C, -346°F~2192°F				
Resolution:	High: 0.1°C or 0.2°F, Low: 1°C or 1°F	•	•	N/A	N/A
	0.1°C / 0.1 K / 0.2°F ≤ 1000° , 1°C / 1 K / 2°F ≤ 1000°	N/A	N/A	•	•
K-type Accuracy:	±(0.3%+1°C) at -50°C~1000°C, ±(0.3%+2°F) at -58°F~1832°F	•	•	N/A	N/A
	±(0.5%+1°C) at 1000~1300°C, ±(0.5%+2°F) at 1832°F~1999°F				
	±(0.3%+1°C) at -200°C~100°C, ±(0.3%+2°F) at -328°F~148°F				
	±(0.1%+0.7°C) at -99.9°C~999.9°C, ±(0.1%+1.4°F) at -147.8°F~999.9°F	N/A	N/A	•	•
	±(0.3%+1°C) at 1000°C~1372°C, ±(0.3%+2°F) at 1000°F~2501°F				
J-type Accuracy:	±(0.3%+1.1°C) at -210°C~-100°C, ±(0.3%+2.2°F) at -346°F~-148°F				
	±(0.1%+0.8°C) at -99.9°C~999.9°C, ±(0.1%+1.6°F) at -147.8°F~999.9°F	N/A	N/A	•	•
	±(0.3%+1°C) at 1000°C~1200°C, ±(0.3%+2°F) at 1000°F~2192°F				
Accuracy:	T1-T2	N/A	•(K-type only)	N/A	•(Both K and J type)
	±(0.3% of T1-T2 reading + 2.0°C), ±(0.3% of T1-T2 reading + 4.0°F)				
Temperature Coefficient:	0.15(Spec. Acc)/°C, <18°C or>28°C	•	•		
	0.1(Spec. Acc)/°C, <18°C or>28°C	N/A	N/A	•	•
Data logging Capacity:	16,000 records				
		N/A	N/A	•	•
Computer Interface Software:	Optical RS-232 interface cable with Win DTM 50 software	N/A	N/A	•Optional	•Optional

GENERAL:

Input: K-type thermocouple	•	•	•(J-type optional)	•(J-type optional)
Sampling Rate: 2.5times/sec	•	•	2times/sec	1times/sec
Display: 3 1/2 digit (1999 count) LCD, full annunciators	•	•	N/A	N/A
Triple 4 digit (9999 count) LCD, full annunciators	N/A	N/A	•	•
Overload Indication:	"1" or "-1"	"1" or "-1"	"----"	"----"
Low Battery Indication:				
Selectable Auto Power Off: You can select an APO of OFF, 10, 20, 30, 40, 50 and 60 minutes.	N/A	N/A	•	•
Operating Temperature: 0°C~50°C, ≤80% RH	•	•	•	•
Storage Temperature: - 20°C ~ 60°C	•	•	•	•
Input Protection: 60V dc or 24Vrms ac maximum	•	•	•	•
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)	•	•	•	•
Battery Life: In hours (Alkaline battery)	250	250	90	90
Size: 64mm(W) x 160mm (L) x 26 mm(H), without holster	•	•	•	•
	74mm(W) x 170mm (L) x 39 mm (H), with holster	•	•	•
Weight: In grams (with holster)	430	430	430	430
Included with instrument: Type 50BK bead thermocouple, ZnC battery (installed) Protective holster, belt clip and manual	•	•(50BK X 2PCS)	•	•(50BK X 2PCS)

APPA 60 & 90 Series Multimeter

- Analog Bar Graph • True RMS • Auto Power Off • Beep Guard™
- Frequency Counter • Capacitance Ranges • Continuity/Diode Test
- Water Resistant • Drop Proof • Protective Holster



Pocket-Size Multimeter

One Hand Operation



Built-in Tilt Stand



Hanging Convenience



Test Lead Storage



APPA 63N

- 3200 count digital display
- 65 segments analog bar graph
- Autoranging and manual selection
- 0.5% basic dc volts accuracy
- 1.5% basic ac volts accuracy
- 1.8% basic ohms accuracy
- 1.0% basic dc amps accuracy
- 600V protection in every range
- Fast continuity beeper
- Diode test
- Display hold function
- MagiHolster™



APPA 67

- 3200 count digital display
- 65 segments analog bar graph
- Autoranging and manual selection
- 0.7% basic dc volts accuracy
- 1.7% basic ac volts accuracy
- 1.2% basic dc amperes accuracy**
- 1.7% basic ac amperes accuracy**
- 0.9% basic ohms accuracy
- 600V protection non-current ranges
- Beep Guard™ warning system
- Fast continuity beeper (0.2 msec)
- Diode test
- Display hold function
- Auto power off
- MagiHolster™

APPA 67 is designed to safely meet measuring requirements of the field service industry. They are not recommended for use in high energy current measurements.

Rugged Industrial Multimeter



Water Resistant

Models 91, 97 & 97R are designed for harsh environments with water tight gasket at the seams, rotary switch and input terminals to keep out dust, dirt and moisture.

Rating IP 64



Multipurpose Holster

Every APPA 90 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.



Shockproof

Shock mounting and thick-wall design guarantee that these multimeters will keep on working even after a five foot fall to a concrete floor.



Beep Guard

Specially designed Beep Guard provides a constant beep warning if the test leads put in the current jacks and select an incorrect function.

Safety

All models are designed to meet Class II IEC 1010 and UL 3111 standards for the safest operation in all applications.



Model 91, 97 & 97R



APPA 91

- 3 1/2 digit 0.8" large scale LCD
- 0.5 % basic DCV accuracy
- 1.3 % basic ACV accuracy
- 1.0 % basic DCA accuracy
- 1.5 % basic ACA accuracy
- 0.75% basic OHM accuracy
- CONTINUITY and DIODE Test
- 500V dual fuses protection
- Auto Power Shut Off
- Beep Guard™ warning system
- Water Resistant rating IP 64**
- 5 feet drop proof
- Protective Holster with tilt stand
- IEC 1010-1 standard CAT II 1000V



APPA 93N

- 3 1/2 digit 0.8" large scale LCD
- 0.5 % basic DCV accuracy
- 1.3 % basic ACV accuracy
- 1.0 % basic DCA accuracy
- 1.5 % basic ACA accuracy
- 0.75% basic OHM accuracy
- 1.0 % FREQUENCY accuracy
- 2.0 % CAPACITANCE accuracy
- CONTINUITY and DIODE Test
- 600V protection in non-current ranges
- 500V dual fuses protection
- Auto Power Shut Off
- 5 feet drop proof
- Protective Holster with tilt stand
- IEC 1010-1 standard CAT. II 600V



APPA 97

APPA 97R (True RMS reading)

- 3200 count digital display
- 65 segment analog bar graph
- Autoranging and manual selection
- 0.3 % basic DCV accuracy (97R)**
- 0.5 % basic DCA accuracy (97)
- 1.3 % basic ACV accuracy
- 1.0 % basic DCA accuracy
- 1.5 % basic ACA accuracy
- 0.5 % basic OHM accuracy (97R)**
- 0.75% basic OHM accuracy (97)
- TRUE RMS reading in ACV/ACA (97R)**
- CONTINUITY and DIODE Test
- 500V dual fuses protection
- Auto Power Shut Off
- Beep Guard™ warning system
- Water Resistant rating IP 64**
- Fast continuity beeper (0.2 msec)
- Data HOLD key
- Unique **DELAY HOLD** function
- 5 feet drop proof
- Protective Holster with tilt stand
- IEC 1010-1 standard CAT. II 1000V

APPA 70 Series Multimeter

Smaller but much Nicer and Rugged





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.



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.

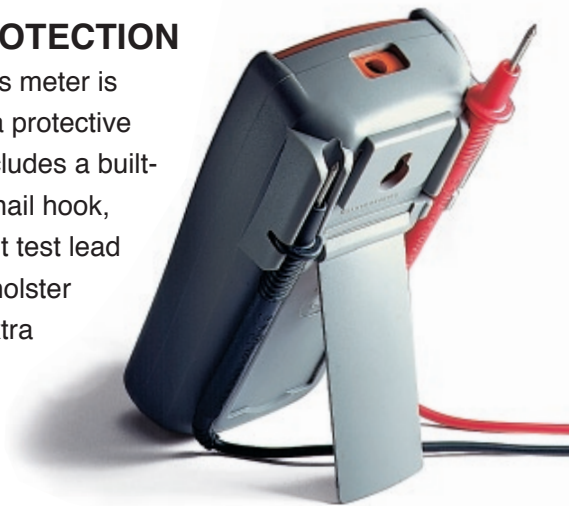
NEW SLIM DESIGN

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



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 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 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 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



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

APPA 70 SERIES MULTIMETERS
FEATURES:





	APPA 71	APPA 72
Digital display	6000 count	6000 count
Analog bar graph display		
Range selection	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.)

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

GENERAL:

Sampling Rate: 1.5times/sec	•	•
Overload Indication: "OL" or "-OL"	•	•
Low Battery Indication		
Auto Power Off: Approx. 10 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
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)	•	•
IEC LR03, AM4 or AAA size 1.5V x 2	•	•
Battery Life: In hours (Alkaline battery)	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
Included with instrument: Test Leads, Protective holster	•	•
ZnC battery (installed) and manual		

APPA 73	APPA 75	APPA 77	APPA 79
6000 count	4000 count	4000 count	4000 count
	82 segments	82 segments	82 segments
Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
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.	.	.	.
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.	.	.	.
.	.	.	.
.	.	.	.
600.0mV~1000V	400.0mV~1000V	400.0mV~1000V	400.0mV~1000V
0.1mV	0.1mV	0.1mV	0.1mV
.	.	.	.
.	.	.	.
600.0mV~750V	4.00mV~750V	4.00mV~750V	4.00mV~750V
0.1mV	0.1mV	0.1mV	0.1mV
.	±(1.2%+5d) at 50Hz~500Hz	±(1.2%+5d) at 50Hz~500Hz	±(1.2%+5d) at 50Hz~500Hz
.	.	.	.
.	.	.	.
True-RMS	True-RMS True-RMS	True-RMS True-RMS	True-RMS True-RMS
600.0µA, 6000µA, 6.000A, 10.00A	400.0µA, 4000µA, 10.00A"	400.0µA, 4000µA, 10.00A"	400.0µA, 4000µA, 10.00A"
0.1µA	0.1µA	0.1µA	0.1µA
.	.	.	.
.	.	.	.
.	.	.	.
6.000A, 10.00A		10.00A	10.00A
0.1µA		10mA	10mA
.		.	.
.		.	.
.		.	.
600.0Ω~60.00MΩ	400.0Ω ~ 40.00MΩ	400.0Ω ~ 40.00MΩ	400.0Ω ~ 40.00MΩ
0.1Ω	0.1Ω	0.1Ω	0.1Ω
±(0.7%+2d)	±(1.0%+5d)	±(1.0%+5d)	±(1.0%+5d)
±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)
±(1.0%+2d)	±(0.7%+2d)	±(0.7%+2d)	±(0.7%+2d)
±(1.5%+2d)	±(1.5%+2d)	±(1.5%+2d)	±(1.5%+2d)
.	.	.	.
.	<350Ω	<350Ω	<350Ω
.	.	.	.
6000Hz~60.00MHz	4KHz~40.00MHz	4KHz~40.00MHz	4KHz~40.00MHz
1Hz	1Hz	1Hz	1Hz
±(0.01%+1d) at 100mV rms	±(0.01%+1d) at 150V rms	±(0.01%+1d) at 150V rms	±(0.01%+1d) at 150V 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
±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms	±(0.01%+1d) at 1V rms
.	.	.	.
.	.	.	.
6.000nF~6.000mF	4.000nF ~ 4.000mF	4.000nF ~ 4.000mF	4.000nF ~ 4.000mF
1pF	1pF	1pF	1pF
.	±(2.0%+8d)	±(2.0%+8d)	±(2.0%+8d)
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	2 times/sec	2 times/sec	2 times/sec
.	.	.	.
			
.	30 minutes	30 minutes	30 minutes
.	.	.	.
.	.	.	.
.	.	.	.
CAT. IV. 600V, CAT. III 1000V	CAT. IV. 600V, CAT. III 1000V	CAT. IV. 600V, CAT. III 1000V	CAT. IV. 600V, CAT. III 1000V
.	.	.	.
.	.	.	.
300	300	300	300
.	.	.	.
.	.	.	.
400	400	400	400
.	.	.	.

APPA 80 Series Multimeter

Leading Edge Features On a Tight Budget





APPA 80

- 3400 count digital display
- 70 segments analog bar graph
- Autorange and manual selection
- 0.5% basic DCV accuracy
- Data Hold
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster and tilt stand
- CAT. III 600V/CAT. II 1000V
- Safety Standard



APPA 82
APPA 82R (True -RMS reading)

- 4000 count digital display
- 82 segments analog bar graph
- Autorange and manual selection
- True RMS reading or AC mode (82R)
- 0.5% basic DCV accuracy
- Data Hold
- Frequency Counter
- Capacitance Measurement
- Hz reading on AC mode
- Auto Power Off
- Shock proof from 4 feet drops
- Protective Holster and tilt stand
- CAT. III 600V/CAT. II 1000V
- Safety Standard

APPA 80 SERIES MULTIMETER

FEATURES:	APPA 80	APPA 82/82R
Digital display	3400 count	4000 count
Analog bar graph	70 segments	82 segments
Range selection	Auto/Manual	Auto/Manual
True RMS measuring		-82R
Frequency counter		*
Capacitance measurement		*
Audible continuity and Diode test	*	*
Data hold	*	*
Automatic power shut off	*	*
Shock proof from 4 feet drops	*	*
Standard full-sleeve safety test leads	*	*
Protective holster	Option	Option

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

		APPA 80	APPA 82/82R
DCV:	Ranges	300.0mV~1000V	400mV~1000V
	Resolution	0.1mV	0.1mV
	Accuracy: ±(0.5%+2d)		*
	Input Impedance:10MΩ	*	*
	Overload Protection: 1000V rms	*	*
ACV:	Ranges	3.000V~750V	400.0mV~750V
	Resolution	1mV	0.1mV
	Accuracy: 400mV (Unspecified), 3V/ 4V	±(1.5%+5d)	±(1.5%+5d)
	30V/ 40V, 300V/ 400V, 750V	±(1.5%+5d)	±(1.3%+5d)
	Frequency Response: 40Hz~500Hz	*	*
Input Impedance:10MΩ/ <100pF	*	*	
Overload Protection: 1000V rms	*	*	
Conversion Type:		-82R True-RMS	
Average sensing RMS indicating		*	
DCA:	Ranges	300.0μA, 3000μA, 10.00A	400.0μA, 4000μA, 10.00A
	Resolution	0.1μA	0.1μA
	Accuracy: 300μA / 400μA, 3000μA/ 4000μA	±(1.7%+2d)	±(1.7%+2d)
	10A	±(2.0%+2d)	±(2.0%+2d)
	Input Protection: 600V rms for μA input	*	*
16A / 500V fast blow fuse for A input	*	*	
ACA:	Ranges	300.0μA, 3000μA, 10.00A	400.0μA, 4000μA, 10.00A
	Resolution	0.1μA	0.1μA
	Accuracy: 300μA / 400μA, 3000μA/ 4000μA	±(2.2%+5d)	±(1.7%+2d)
	10A	±(2.5%+5d)	±(2.0%+2d)
	Frequency Response: 40Hz~500Hz	*	*
Input Protection: Same as DCA	*	*	
Conversion Type:		-82R True-RMS	
Average sensing RMS indicating		*	
OHM:	Ranges	300.0Ω~30.00MΩ	400.0Ω~40.00MΩ
	Resolution	0.1Ω	0.1Ω
	Accuracy: 300Ω / 400Ω	±(1.0%+4d)	±(1.0%+3d)
	3KΩ/ 4KΩ, 30KΩ/ 40KΩ, 300KΩ/ 400KΩ		±(0.75%+3d)
	3MΩ/ 4MΩ	±(1.0%+3d)	±(1.0%+3d)
30MΩ/ 40MΩ	±(2.0%+5d)	±(1.5%+5d)	
Overload Protection: 600V rms	*	*	
Continuity Beeper: <30±, 2KHz tone buzzer	*	*	
Diode Test: Open circuit voltage: 3V	*	*	
Frequency Counter:	Ranges		4.000KHz~40.00MHz
	Resolution		1Hz
	Accuracy: 4KHz, 40KHz, 400KHz at 100mV rms		±(0.01%+1d)
	4MHz at 250mV rms		±(0.01%+1d)
	40MHz at 1V rms		±(0.01%+1d)
Overload Protection: 600V rms	*	*	
Capacitance:	Ranges		4.000nF~40.00mF
	Resolution		1pF
	Accuracy: 4nF, 40nF		±(3.0%+10d)
	4μF, 40μF, 400μF		±(2.0%+8d)
	4mF, 40mF		±(5.0%+20d)
Overload Protection: 600V rms	*	*	

GENERAL:

	APPA 80	APPA 82/82R
Sampling Rate: 2times/sec for digital display	*	*
12times/sec for analog bar graph	*	*
Overload Indication	"OL" or "-OL"	"OL" or "-OL"
Low Battery Indication	⊠	⊠
Auto Power Off: Approx. 10 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. III 600V CAT. II 1000V	CAT. III 600V CAT. II 1000V
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)		-82R
IEC LR03, AM4 or AAA size 1.5V x 2	*	*
Battery Life: In hours (Alkaline battery)	500	300
Size: 85mm(W) x 177mm (L) x 38 mm(H), without holster	*	*
90mm(W) x 186mm (L) x 46mm (H), with holster	*	*
Weight: In grams (with holster)	400	400, (82R) 430
Included with instrument: Test Leads, ZnC battery (installed) and manual	*	*

Specifications subject to change without notice.
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ALL NEW APPA 90 Series IV Multimeter



AUTOMATICALLY VOLTAGE DETECT WITH LOW IMPEDANCE

Special designed low impedance features with Automatically Voltage detect, designed to make electrical measurement easier and safer with extra reliability.



SMART AND SAFER DATA HOLD

Intelligent Designed Data Hold feature warns user with beeper sound, blinking backlit display once the LCD reading was hold at an uncertain operation to avoid accident activation of data hold.



AC+DC TRUE RMS

APPA 98IV and 99IV have AC+DC True RMS reading on both Ampere and Voltage function for better accuracy of measurement.

NEW SLIM DESIGN

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



BATTERY EASY TO REPLACE

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



NON CONTACT VOLTAGE DETECTING

APPA 98IV and 99IV have VoltSense™ feature to detect live cable and outlet without contact also find the cable alignment behind the wall as cable finder.



NEW

APPA 97IV

6,000 count digital and 62 segments analog display
 Large white LED backlight display
 Rapid Zeroing on AC V/A mode
 High Accuracy/Stability of Resistance measuring
 Separate AC, DC Voltage mode for high accurate measuring
 True RMS measurements on ACV/ACA
 LoZ for prevent false reading from ghost voltage
 Auto Ranging
 0.2% DCV accuracy
 Min/Max function
 Smart Hold
 Auto Power Off (20 minutes)
 Frequency Counter on ACV/ACA
 11A/1000V & 400mA/1000V High Energy Fuses
 Battery Capacity indication in segments
 Shock proof from 4 feet drops
 CAT IV 600V/ CATIII 1000V standard



NEW

APPA 99IV

6,000 count digital and 62 segments analog display
 Large white LED backlight display
 Rapid Zeroing on AC V/A mode
 High Accuracy/Stability of Resistance measuring
 Separate AC, DC Voltage mode for high accurate measuring
 True RMS measurements on ACV/ACA
 AC+DC function
 LoZ for prevent false reading from ghost voltage
 VoltSeek™ for non-contact voltage detection
 Auto Ranging
 0.08% DCV accuracy
 Peak Hold (1ms)
 Min/Max function
 Smart Hold
 Auto Power Off (20 minutes)
 Temperature Measurement
 Frequency Counter on ACV/ACA
 11A/1000V & 400mA/1000V High Energy Fuses
 Battery Capacity indication in segments
 Shock proof from 4 feet drops
 Temperature Probe included
 CAT IV 600V/ CATIII 1000V standard



NEW

APPA 98IV

6,000 count digital and 62 segments analog display
 Large white LED backlight display
 Rapid Zeroing on AC V/A mode
 High Accuracy/Stability of Resistance measuring
 Separate AC, DC Voltage mode for high accurate measuring
 True RMS measurements on ACV/ACA
 AC+DC function
 LoZ for prevent false reading from ghost voltage
 VoltSeek™ for non-contact voltage detection
 Auto Ranging
 0.09% DCV accuracy
 Min/Max function
 Smart Hold
 Auto Power Off (20 minutes)
 Frequency Counter on ACV/ACA
 11A/1000V & 400mA/1000V High Energy Fuses
 Battery Capacity indication in segments
 Shock proof from 4 feet drops
 CAT IV 600V/ CATIII 1000V Safety standard

APPA 90IV SERIES MULTIMETERS

FEATURES:	APPA 97IV	APPA 98IV	APPA 99IV
Digital display	6000 count	6000 count	6000 count
Analog bargraph display	62 segments	62 segments	62 segments
Active Backlight	•	•	•
Automatic AC/DC voltage detector with low impedance(Auto-V LoZ)	•	•	•
True RMS measuring	AC only	AC+DC	AC+DC
AC+DC mA measurement	N/A	•	•
AC+DC mV measurement	N/A	•	•
Smart data hold	•	•	•
Peak hold	N/A	N/A	•
Min/Max function	•	•	•
Beep guard	•	•	•
VoltSeek™ (None Contact Voltage)	N/A	•	•
Frequency counter	•	•	•
Capacitance measurement	•	•	•
Audible continuity and Diode test	•	•	•
Temperature measurement	N/A	N/A	•
Automatic power shut off	•	•	•
Low battery indicator with segments	•	•	•
Water/Dust Resistant	•	•	•
Shock proof from 4 feet drops	•	•	•
Standard full-sleeve safety test leads	•	•	•

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

	APPA 97IV	APPA 98IV	APPA 99IV
DCV:			
Ranges	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	60.00mV, 600.0mV, 6.000V, 60.00V, 600.0V, 1000V	60.00mV, 600.0mV, 6.000V, 60.00V, 600.0V, 1000V
Resolution	0.1mV	0.01mV	0.01mV
Basic Accuracy	±(0.2%+2d)	±(0.09%+2d)	±(0.08%+2d)
Input Impedance: 10MΩ	•	•	•
Overload Protection: 1000V rms	•	•	•
ACV:			
Ranges	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	600.0mV, 600.0mV, 6.000V, 60.00V, 600.0V, 1000V
Resolution	0.1mV	0.1mV	0.1mV
Basic Accuracy	±(1.0%+3d) at 50Hz~500Hz	±(1.0%+5d) at 45Hz~1KHz	±(0.8%+5d) at 45Hz~1KHz
Input Impedance: 10MΩ//<100pF	•	•	•
Overload Protection: 1000V rms	•	•	•
Conversion Type	True RMS	AC+DC True RMS	AC+DC True RMS
Auto-V LoZ:			
Ranges	600.0V, 1000V	600.0V, 1000V	600.0V, 1000V
Resolution	0.1V	0.1V	0.1V
Basic Accuracy	±(1.0%+5d) at 50Hz~500Hz	±(1.0%+3d) at 45Hz~1KHz	±(0.8%+3d) at 45Hz~1KHz
Input Impedance: 3KΩ	•	•	•
Overload Protection: 1000V rms	•	•	•
AC+DC V:			
Ranges	NA	6.000V, 60.00V, 600.0V, 1000V	6.000V, 60.00V, 600.0V, 1000V
Resolution	NA	0.001V	0.001V
Basic Accuracy	NA	±(2.5%+5d)	±(2%+5d)
Overload Protection: 1000V rms	•	•	•
AC+DC mV:			
Ranges	NA	60.00mV, 600.0mV	60.00mV, 600.0mV
Resolution	NA	0.01mV	0.01mV
Basic Accuracy	NA	±(2.5%+5d)	±(2%+5d)
Overload Protection: 1000V rms	•	•	•
DCA:			
Ranges	60.00mA, 600.0mA, 6.000A, 10.00A	60.00mA, 600.0mA, 6.000A, 10.00A	60.00mA, 600.0mA, 6.000A, 10.00A
Resolution	0.01mA	0.01mA	0.01mA
Basic Accuracy	±(1.0%+3d)	±(1.0%+3d)	±(0.8%+3d)
Overload Protection: 11A or 440mA	•	•	•
ACA:			
Ranges	60.00mA, 600.0mA, 6.000A, 10.00A	60.00mA, 600.0mA, 6.000A, 10.00A	60.00mA, 600.0mA, 6.000A, 10.00A
Resolution	0.01mA	0.01mA	0.01mA
Basic Accuracy	±(1.5%+3d) at 50Hz~500Hz	±(1.5%+3d) at 45Hz~1KHz	±(1.2%+3d) at 45Hz~1KHz
Overload Protection: 11A or 440mA	•	•	•
Conversion Type	True RMS	AC+DC True RMS	AC+DC True RMS
AC+DC A:			
Ranges	NA	6.000A, 10.00A	6.000A, 10.00A
Resolution	NA	1mA	1mA
Basic Accuracy	NA	±(2.5%+5d) at 50Hz~1KHz	±(2%+5d) at 50Hz~1KHz
Overload Protection: 11A	•	•	•
AC+DC mA:			
Ranges	NA	60.00mA, 600.0mA	60.00mA, 600.0mA
Resolution	NA	0.01mA	0.01mA
Basic Accuracy	NA	±(2.5%+3d)	±(2%+3d)
Overload Protection: 440mA	•	•	•
OHM:			
Ranges	600.0Ω~40.00MΩ	600.0Ω~40.00MΩ	600.0Ω~40.00MΩ
Resolution	0.1Ω	0.1Ω	0.1Ω
Basic Accuracy: 600.0Ω	±(0.8%+5d)	±(0.8%+5d)	±(0.8%+5d)
6.000KΩ, 60.00KΩ, 600.0KΩ, 6.000MΩ	±(0.8%+2d)	±(0.8%+2d)	±(0.8%+2d)
40.00MΩ	±(1.0%+5d)	±(1.5%+5d)	±(1.5%+5d)
Overload Protection: 1000V rms	•	•	•
Continuity Beeper:	<30Ω, 2KHz tone buzzer	<20Ω, 2KHz tone buzzer	<20Ω, 2KHz tone buzzer
Diode Test:	Open circuit voltage 1.8V max	Open circuit voltage 1.8V max	Open circuit voltage 1.8V max
Frequency Counter:			
Ranges	100.00Hz~50.00KHz	100.00Hz~100.00KHz	100.00Hz~100.00KHz
Resolution	0.01Hz	0.01Hz	0.01Hz
Basic Accuracy: ±(0.1%+2d)	•	•	•
Sensitivity: 1Hz~10KHz, 10KHz~50KHz	>5V , >20.0V	>6V , >12V	>6V , >12V
ACA mA, ACA	>8mA , >0.8A	>6mA , >0.6A	>6mA , >0.6A
Overload Protection: 1000V rms or 11A	•	•	•
Capacitance:			
Ranges	1.000μF~10.00mF	1.000μF~10.00mF	1.000μF~10.00mF
Resolution	0.001μF	0.001μF	0.001μF
Basic Accuracy	±(1.9%+8d)	±(1.2%+2d)	±(1.2%+2d)
Overload Protection: 1000V rms	•	•	•
Temperature:			
Ranges	NA	NA	-40°C~400°C
Resolution	NA	NA	0.1°C
Basic Accuracy	NA	NA	±(1%+20d)
Overload Protection: 1000V rms	•	•	•

GENERAL:

Sampling Rate: 3times/sec	•	•	•
Overload Indication: "OL" or "-OL"	•	•	•
Low Battery Indication	⏏	⏏	⏏
Auto Power Off: Approx. 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	CAT IV 600V/CAT III 1000V	CAT IV 600V/CAT III 1000V
Power Requirement: Single 9V battery (NEDA 1604A or IEC 6LF22)	•	•	•
Battery Life: In hours (No backlit, Alkaline battery)	150	200	200
Size: 94mm(W) x 190mm (L) x 48 mm(H), with holster	•	•	•
Weight: In grams (with holster)	460	460	460
Included with instrument: Test Leads, Protective holsterMagnetic Hanging Kit, ZnC battery (installed) and manual	•	•	(also including Temperature Probe)

APPA®

APPA 130 Series

All New Designed Pro Clamp-On Meter



AUTOMATIC SELECTION

Automatically detect AC, DC and AC+DC of Ampere and Voltage function with AC+DC True RMS, and automatically selection of resistance, continuity and diode.



ACTIVE BACKLIT

APPA 130 series Pro clamp meters all have an active backlit display that turns ON at the touch of a button or rotate the knob, also automatically goes off to save battery life.

INNOVATIVE NAVIGATOR

Innovative designed navigator key optimized the function selection and feature operation with a finger of thumb.



INNOVATIVE LIGHTENING AND LIVE VOLTAGE SENSING

Torch lightening during cable clamping and automatically non contact voltage detection for better identification of working environment.

EXTRA TEMPERATURE FEATURE

Special designed temperature test facility for daily industrial temperature measurement application. (135 & 138)



ADVANCED POWER FEATURES MADE EASY

Every APPA 130 series Pro clamp meter provides advanced Power features, Phase rotation, Total Harmonics Distortion and even Harmonics 1 to 25th with easy-to-use interface, which enables fully professional power measurement application with excellent performance.



OVER-MOLDING SLIM DESIGN

Ergonomically designed comfort over-molding slim shape with extra large LCD, one hand operated knob and navigator. Just fit the palm of your hand and your needs.



APPA 133

- 10000 Count digital display
- Active Backlit, Large scale display
- Analog Bar graph
- True RMS reading on AC and AC+DC mode
- Torch lightening when clamping
- AC 600 Amps capability
- Auto AC/DC 1000 Volts capability and selection
- Auto Ohms/Continuity/Diode selection
- Power and Power factor Measurement
- Total Harmonics Distortion and Harmonics 1 to 25
- Phase Rotation Indication
- 100K Ohms Resistance capability
- VoltSense™ (None Contact Voltage)
- Frequency Counter
- Capacitance capability
- Smart Data Hold
- Peak Hold
- Inrush Current
- Min/Max Hold
- Low Pass Filter
- Auto Power Off
- Up to 37mm dia. (750MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Convenient Battery Door
- CAT. IV 600V /CAT. III 1000V Safety Standard



APPA 137

- 10000 Count digital display
- Active Backlit, Large scale display
- Analog Bar graph
- True RMS reading on AC and AC+DC mode
- Torch lightening when clamping
- AC 1000 Amps capability
- Auto AC/DC 1000 Volts capability and selection
- Auto Ohms/Continuity/Diode selection
- Power and Power factor Measurement
- Total Harmonics Distortion and Harmonics 1 to 25
- Phase Rotation Indication
- 100K Ohms Resistance capability
- VoltSense™ (None Contact Voltage)
- Frequency Counter
- Capacitance capability
- Smart Data Hold
- Peak Hold
- Inrush Current
- Min/Max Hold
- Low Pass Filter
- Auto Power Off
- Up to 42mm dia. (1000MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Convenient Battery Door
- CAT. IV 600V /CAT. III 1000V Safety Standard



APPA 135

10000 Count digital display
 Active Backlit, Large scale display
 Analog Bar graph
 True RMS reading on AC and AC+DC mode
 Torch lightening when clamping
 AC 600 Amps capability
 Auto AC/DC 1000 Volts capability and selection
 Auto Ohms/Continuity/Diode selection
 Power and Power factor Measurement
 Total Harmonics Distortion and Harmonics 1 to 25
 Phase Rotation Indication
 100K Ohms Resistance capability
 VoltSense™ (None Contact Voltage)
 Frequency Counter
 Capacitance capability
 °C/ °F Temperature Function
 DC μA for flame rod testing
 Smart Data Hold
 Peak Hold
 Inrush Current
 Min/Max Hold
 Low Pass Filter
 Auto Power Off
 Up to 37mm dia. (750MCM) Conductor
 4 feet Drop Proof
 Temp. probe included
 Deluxe Carrying Case
 Convenient Battery Door
 CAT. IV 600V /CAT. III 1000V Safety Standard



APPA 136

10000 Count digital display
 Active Backlit, Large scale display
 Analog Bar graph
 True RMS reading on AC and AC+DC mode
 Torch lightening when clamping
 Auto AC/DC 600 Amps capability and selection
 Auto AC/DC 1000 Volts capability and selection
 Auto Ohms/Continuity/Diode selection
 Power and Power factor Measurement
 Total Harmonics Distortion and Harmonics 1 to 25
 Phase Rotation Indication
 100K Ohms Resistance capability
 VoltSense™ (None Contact Voltage)
 Frequency Counter
 Capacitance capability
 Smart Data Hold
 Peak Hold
 Inrush Current
 DCA Auto-Zeroing Key
 Min/Max Hold
 Low Pass Filter
 Auto Power Off
 Up to 37mm dia. (750MCM) Conductor
 Bus bar size 45mm x 10mm
 4 feet Drop Proof
 Deluxe Carrying Case
 Convenient Battery Door
 CAT. IV 600V /CAT. III 1000V Safety Standard



APPA 138

10000 Count digital display
 Active Backlit, Large scale display
 Analog Bar graph
 True RMS reading on AC and AC+DC mode
 Torch lightening when clamping
 Auto AC/DC 1000 Amps capability and selection
 Auto AC/DC 1000 Volts capability and selection
 Auto Ohms/Continuity/Diode selection
 Power and Power factor Measurement
 Total Harmonics Distortion and Harmonics 1 to 25
 Phase Rotation Indication
 100K Ohms Resistance capability
 VoltSense™ (None Contact Voltage)
 Frequency Counter
 Capacitance capability
 °C/ °F Temperature Function
 Smart Data Hold
 Peak Hold
 Inrush Current
 DCA Auto-Zeroing Key
 Min/Max Hold
 Low Pass Filter
 Auto Power Off
 Up to 42mm dia. (1000MCM) Conductor
 Bus bar size 62mm x 12mm
 4 feet Drop Proof
 Temp. probe included
 Deluxe Carrying Case
 Convenient Battery Door
 CAT. IV 600V /CAT. III 1000V Safety Standard

APPA 130 SERIES CLAMP MULTIMETERS

FEATURES:

Digital display
Analog bar graph
True RMS measuring
Auto AC/DC detection
Smart Data hold
Min/Max function
Peak hold
Inrush Current measurement
DCA zeroing
Low Pass Filter
Frequency counter
Power and Power Factor measurement
Total Harmonic Distortion
Harmonics
Phase Rotation
Temperature measurement
Capacitance
Audible continuity and Diode test
Backlight
Torch Lighting
VoltSense™ (None Contact Voltage)
Automatic power shut off
Shock proof from 4 feet drops
Standard full-sleeve safety test leads
Deluxe carrying case

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

ACA:	Ranges
	Resolution
	Basic Accuracy: ±(1.5%+5d) at 50Hz~500Hz
DCA:	Ranges
	Resolution
	Basic Accuracy
DCµA:	Ranges
	Resolution
	Basic Accuracy
AC + DC A:	Ranges
	Resolution
	Basic Accuracy
ACV:	Ranges
	Resolution
	Basic Accuracy: ±(1.0%+5d) at 50Hz~500Hz
	Input Impedance:3.5MΩ
	Overload Protection: 1000V rms
DCV:	Ranges
	Resolution
	Basic Accuracy: ±(0.7%+2d)
	Input Impedance:3.5MΩ
	Overload Protection: 1000V rms
AC+DC V:	Ranges
	Resolution
	Basic Accuracy: Same as ACV+(1.0%+5d)
	Input Impedance:3.5MΩ
	Overload Protection: 1000V rms
Watt:	Ranges
	Resolution
	Basic Accuracy: ±(2.5%+5d)
P.F.:	Ranges
	Resolution
	Basic Accuracy
T.H.D.:	Ranges
	Resolution
	Basic Accuracy: ±(3.0%+10d)
Harmonics:	Ranges
	Resolution
	Basic Accuracy: ±(5.0%+10d) for order 1-12, ±(10.0%+10d) for order 13-25
OHM:	Ranges
	Resolution
	Basic Accuracy: ±(1.0%+3d)
Continuity Beeper:	<30Ω, 2KHz tone buzzer
Diode Test:	Open circuit voltage: ±1.8V max
Capacitance	Ranges
	Resolution
	Basic Accuracy: ±(1.9%+8d)
Frequency Counter:	Ranges
	Resolution
	Basic Accuracy: ±(0.5%+3d)
Temperature:	Ranges
	Resolution
	Basic Accuracy
	Overload Protection: 1000V rms

GENERAL:

Sampling Rate
Overload Indication
Low Battery Indication
Auto Power Off: Approx. 15 minutes
Operating Temperature: 0 °C ~ 50 °C, ≤ 80% RH
Storage Temperature: -20 °C ~ 60 °C
Temperature Coefficient: 0.2(Spec, Acc) / °C, <18 °C or > 28 °C
Safety: IEC 61010 and designed to meet UL61010 specifications
Maximum Conductor Size
Maximum Jaw Opening
Maximum Busbar Size
Power Requirement: Single 9V battery (NEDA 1604A or IEC 6LF22)
Battery Life: In hours (Alkaline battery)
Size: 87.5mm(W) x 242 mm(L) x 50.5 mm(H)
87.5mm(W) x 257mm(L) x 50.5 mm(H)
Weight: In grams (with battery)
Included with instrument: Test Leads, ZnC battery (installed) manual and carrying case

APPA 133	APPA 135	APPA 136	APPA 137	APPA 138
10000 count	10000 count	10000 count	10000 count	10000 count
60 segments	60 segments	60 segments	60 segments	60 segments
AC+DC	AC+DC	AC+DC	AC+DC	AC+DC
.
.
.
NA	NA	.	NA	.
.
.
.
NA	.	NA	NA	.
.
.
.
.
.
.

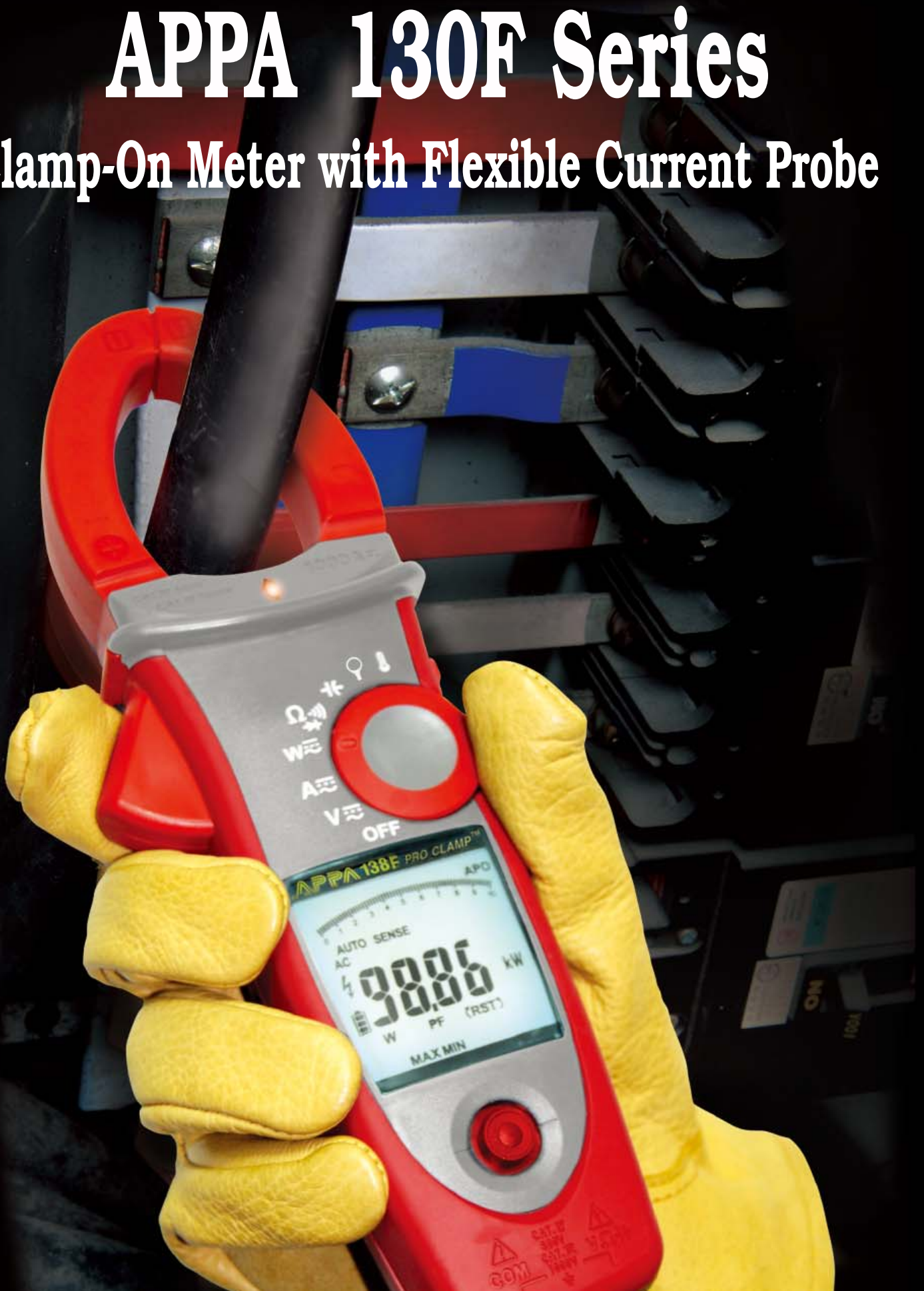
100.00A, 600.0A	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
0.01A	0.01A	0.01A	0.01A	0.01A
AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
NA	NA	100.00A, 600.0A	NA	100.00A, 1000.0A
NA	1000.0μA	±(1.5%+5d)	NA	±(1.5%+5d)
NA	0.1μA	NA	NA	NA
NA	±(1.7%+2d)	100.00A, 600.0A	NA	100.00A, 1000.0A
100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
0.01V	0.01V	0.01V	0.01V	0.01V
.
AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
0.01V	0.01V	0.01V	0.01V	0.01V
.
100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
0.01V	0.01V	0.01V	0.01V	0.01V
.
10KW~600KW	10KW~600KW	10KW~600KW	10KW~1MW	10KW~1MW
1W	1W	1W	1W	1W
-1.00~1.00	-1.00~1.00	-1.00~1.00	-1.00~1.00	-1.00~1.00
0.01	0.01	0.01	0.01	0.01
±3°	±3°	±3°	±3°	±3°
0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
0.1%	0.1%	0.1%	0.1%	0.1%
0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
0.1%	0.1%	0.1%	0.1%	0.1%
1,0000KΩ, 10,00KΩ, 100,00KΩ	1,0000KΩ, 10,00KΩ, 100,00KΩ	1,0000KΩ, 10,00KΩ, 100,00KΩ	1,0000KΩ, 10,00KΩ, 100,00KΩ	1,0000KΩ, 10,00KΩ, 100,00KΩ
0.01Ω	0.01Ω	0.01Ω	0.01Ω	0.01Ω
.
400.0pF, 4.000mF	400.0pF, 4.000mF	400.0pF, 4.000mF	400.0pF, 4.000mF	400.0pF, 4.000mF
0.1pF	0.1pF	0.1pF	0.1pF	0.1pF
.
20,0Hz~10KHz	20,0Hz~10KHz	20,0Hz~10KHz	20,0Hz~10KHz	20,0Hz~10KHz
0.1Hz	0.1Hz	0.1Hz	0.1Hz	0.1Hz
NA	-50 °C ~ 1000 °C	NA	NA	-50 °C ~ 1000 °C
.	0.1 °C	.	.	0.1 °C
.	±(1%+1 °C)	.	.	±(1%+1 °C)
.

3times/sec	3times/sec	3times/sec	3times/sec	3times/sec
"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"
□	□	□	□	□
.
.
CAT. IV 600V	CAT. IV 600V	CAT. IV 600V	CAT. IV 600V	CAT. IV 600V
CAT. III 1000V	CAT. III 1000V	CAT. III 1000V	CAT. III 1000V	CAT. III 1000V
37mm dia. (750MCM)	37mm dia. (750MCM)	37mm dia. (750MCM)	42 mm dia. (1000MCM)	42mm dia. (1000MCM)
45mm	45mm	45mm	45mm	45mm
45x10mm	45x10mm	45x10mm	62x12mm	62x12mm
.
100	100	100	100	100
.
435	435	435	470	470
.	(Also Including Temperature Probe)	.	.	(Also Including Temperature Probe)

APPA®

APPA 130F Series

Clamp-On Meter with Flexible Current Probe



AUTOMATIC SELECTION

Automatically detect AC, DC and AC+DC of Ampere and Voltage function with AC+DC True RMS, and automatically selection of resistance, continuity and diode.



ACTIVE BACKLIT

APPA 130F series Pro clamp meters all have an active backlit display that turns ON at the touch of a button or rotate the knob, also automatically goes off to save battery life.



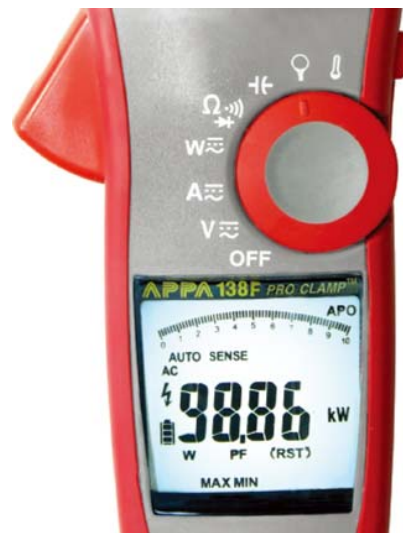
FLEXIBLE CURRENT TEST

APPA 130F series intergated with SFLEX-T flexible current probe expanding the current range to 3000 ACA, providing increased display flexibility, making electrical measurement easier and safer.



INNOVATIVE LIGHTENING AND LIVE VOLTAGE SENSING

Torch lightening during cable clamping and automatically non contact voltage detection for better identification of working environment.



ADVANCED POWER FEATURES MADE EASY

Every APPA 130F series Pro clamp meter provides advanced Power features, Phase rotation, Total Harmonic Distortion and even Harmonics 1 to 25th with easy-to-use interface, which enables fully professional power measurement application with excellent performance.



APPA 133F

10000 Count digital display
 Active Backlit, Large scale display
 Analog Bar graph
 True RMS reading on AC and AC+DC mode
 Torch lightening when clamping
 AC 600 Amps capability
 Auto AC/DC 1000 Volts capability and selection
 Auto Ohms/Continuity/Diode selection
 Power and Power factor Measurement
 Total Harmonic Distortion and Harmonics 1 to 25
 Phase Rotation Indication
 AC Current via Flexible Current Probe
 100K Ohms Resistance capability
 VoltSense™ (None Contact Voltage)
 Frequency Counter
 Capacitance capability
 Smart Data Hold
 Peak Hold
 Inrush Current
 Min/Max Hold
 Low Pass Filter
 Auto Power Off
 Up to 37mm dia. (750MCM) Conductor
 4 feet Drop Proof
 Deluxe Carrying Case
 Convenient Battery Door
 CAT IV 600V /CAT III 1000V Safety Standard



APPA 136F

10000 Count digital display
 Active Backlit, Large scale display
 Analog Bar graph
 True RMS reading on AC and AC+DC mode
 Torch lightening when clamping
 Auto AC/DC 600 Amps capability and selection
 Auto AC/DC 1000 Volts capability and selection
 Auto Ohms/Continuity/Diode selection
 Power and Power factor Measurement
 Total Harmonic Distortion and Harmonics 1 to 25
 Phase Rotation Indication
 AC Current via Flexible Current Probe
 100K Ohms Resistance capability
 VoltSense™ (None Contact Voltage)
 Frequency Counter
 Capacitance capability
 Smart Data Hold
 Peak Hold
 Inrush Current
 DCA Auto-Zeroing Key
 Min/Max Hold
 Low Pass Filter
 Auto Power Off
 Up to 37mm dia. (750MCM) Conductor
 Bus bar size 45mm x 10mm
 4 feet Drop Proof
 Deluxe Carrying Case
 Convenient Battery Door
 CAT IV 600V /CAT III 1000V Safety Standard



APPA 137F

10000 Count digital display
 Active Backlit, Large scale display
 Analog Bar graph
 True RMS reading on AC and AC+DC mode
 Torch lightening when clamping
 AC 1000 Amps capability
 Auto AC/DC 1000 Volts capability and selection
 Auto Ohms/Continuity/Diode selection
 Power and Power factor Measurement
 Total Harmonic Distortion and Harmonics 1 to 25
 Phase Rotation Indication
 AC Current via Flexible Current Probe
 100K Ohms Resistance capability
 VoltSense™ (None Contact Voltage)
 Frequency Counter
 Capacitance capability
 Smart Data Hold
 Peak Hold
 Inrush Current
 Min/Max Hold
 Low Pass Filter
 Auto Power Off
 Up to 42mm dia. (1000MCM) Conductor
 4 feet Drop Proof
 Deluxe Carrying Case
 Convenient Battery Door
 CAT IV 600V /CAT III 1000V Safety Standard



APPA 138F

10000 Count digital display
 Active Backlit, Large scale display
 Analog Bar graph
 True RMS reading on AC and AC+DC mode
 Torch lightening when clamping
 Auto AC/DC 1000 Amps capability and selection
 Auto AC/DC 1000 Volts capability and selection
 Auto Ohms/Continuity/Diode selection
 Power and Power factor Measurement
 Total Harmonic Distortion and Harmonics 1 to 25
 Phase Rotation Indication
 AC Current via Flexible Current Probe
 100K Ohms Resistance capability
 VoltSense™ (None Contact Voltage)
 Frequency Counter
 Capacitance capability
 °C/ °F Temperature Function
 Smart Data Hold
 Peak Hold
 Inrush Current
 DCA Auto-Zeroing Key
 Min/Max Hold
 Low Pass Filter
 Auto Power Off
 Up to 42mm dia. (1000MCM) Conductor
 Bus bar size 62mm x 12mm
 4 feet Drop Proof
 Temp. probe included
 Deluxe Carrying Case
 Convenient Battery Door
 CAT IV 600V /CAT III 1000V Safety Standard

APPA 130F SERIES CLAMP MULTIMETERS

FEATURES:

	APPA 133F	APPA 136F	APPA 137F	APPA 138F
Digital display	10000 count	10000 count	10000 count	10000 count
Analog bar graph	60 segments	60 segments	60 segments	60 segments
True RMS measuring	AC+DC	AC+DC	AC+DC	AC+DC
Auto AC/DC detection	-	-	-	-
Smart Data hold	-	-	-	-
Min/Max function	-	-	-	-
Peak hold	-	-	-	-
Inrush Current measurement	-	-	-	-
DCA zeroing	NA	-	NA	-
Low Pass Filter	-	-	-	-
Frequency counter	-	-	-	-
Power and Power Factor measurement	-	-	-	-
Total Harmonic Distortion	-	-	-	-
Harmonics	-	-	-	-
Phase Rotation	-	-	-	-
Temperature measurement	NA	NA	NA	-
Capacitance	-	-	-	-
Audible continuity and Diode test	-	-	-	-
Backlight	-	-	-	-
Torch Lighting	-	-	-	-
VoltSense® (None Contact Voltage)	-	-	-	-
Automatic power shut off	-	-	-	-
Shock proof from 4 feet drops	-	-	-	-
Standard full-sleeve safety test leads	-	-	-	-
Deluxe carrying case	-	-	-	-

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

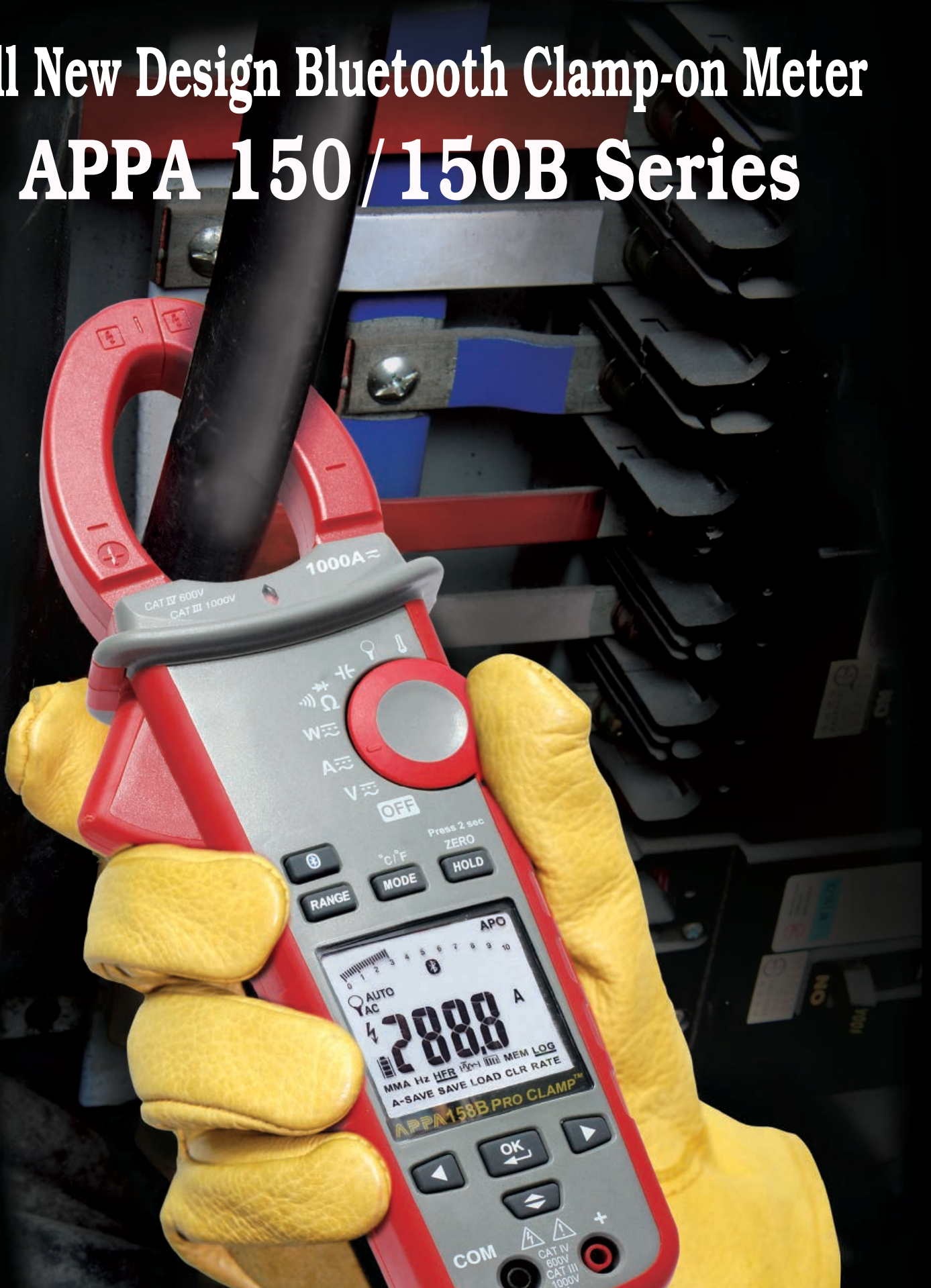
	APPA 133F	APPA 136F	APPA 137F	APPA 138F
ACA:				
Ranges	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
Resolution	0.01A	0.01A	0.01A	0.01A
Basic Accuracy: ±(1.5%+5d) at 50Hz~500Hz	-	-	-	-
Conversion Type	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
DCA:				
Ranges	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
Resolution	0.01A	0.01A	0.01A	0.01A
Basic Accuracy: ±(1.5%+5d)	-	-	-	-
AC Current via SFLEX-T Ranges	0.1A~3000A	0.1A~3000A	0.1A~3000A	0.1A~3000A
AC+DC A:				
Ranges	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
Resolution	0.01A	0.01A	0.01A	0.01A
Basic Accuracy: Same as ACA+(1.5%+5d)	-	-	-	-
ACV:				
Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
Resolution	0.01V	0.01V	0.01V	0.01V
Basic Accuracy: ±(1.0%+5d) at 50Hz~500Hz	-	-	-	-
Input Impedance: 3.5MΩ	-	-	-	-
Overload Protection: 1000V rms	-	-	-	-
Conversion Type	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
DCV:				
Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
Resolution	0.01V	0.01V	0.01V	0.01V
Basic Accuracy: ±(0.7%+2d)	-	-	-	-
Input Impedance: 3.5MΩ	-	-	-	-
Overload Protection: 1000V rms	-	-	-	-
AC+DC V:				
Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
Resolution	0.01V	0.01V	0.01V	0.01V
Basic Accuracy: Same as ACV+(1.0%+5d)	-	-	-	-
Input Impedance: 3.5MΩ	-	-	-	-
Overload Protection: 1000V rms	-	-	-	-
Watt:				
Ranges	10KW~600KW	10KW~600KW	10KW~1MW	10KW~1MW
Resolution	1W	1W	1W	1W
Basic Accuracy: ±(2.5%+5d)	-	-	-	-
P.F.:				
Ranges	-1.00~1.00	-1.00~1.00	-1.00~1.00	-1.00~1.00
Resolution	0.01	0.01	0.01	0.01
Basic Accuracy: ±3°	-	-	-	-
T.H.D.:				
Ranges	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
Resolution	0.1%	0.1%	0.1%	0.1%
Basic Accuracy: ±(3.0%+10d)	-	-	-	-
Harmonics:				
Ranges	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
Resolution	0.1%	0.1%	0.1%	0.1%
Basic Accuracy: ±(5.0%+10d) for order 1-12, ±(10.0%+10d) for order 13-25	-	-	-	-
OHM:				
Ranges	1,000KΩ, 10,00KΩ, 100,00KΩ	1,000KΩ, 10,00KΩ, 100,00KΩ	1,000KΩ, 10,00KΩ, 100,00KΩ	1,000KΩ, 10,00KΩ, 100,00KΩ
Resolution	0.01Ω	0.01Ω	0.01Ω	0.01Ω
Basic Accuracy: ±(1.0%+3d)	-	-	-	-
Overload Protection: 1000V rms	-	-	-	-
Continuity Beeper:	<30Ω, 2KHz tone buzzer	-	-	-
Diode Test:	Open circuit voltage: ±1.8V max	-	-	-
Capacitance				
Ranges	400.0pF, 4,000mF	400.0pF, 4,000mF	400.0pF, 4,000mF	400.0pF, 4,000mF
Resolution	0.1pF	0.1pF	0.1pF	0.1pF
Basic Accuracy: ±(1.9%+8d)	-	-	-	-
Overload Protection: 1000V rms	-	-	-	-
Frequency Counter:				
Ranges	20,0Hz~10KHz	20,0Hz~10KHz	20,0Hz~10KHz	20,0Hz~10KHz
Resolution	0.1Hz	0.1Hz	0.1Hz	0.1Hz
Basic Accuracy: ±(0.5%+3d)	-	-	-	-
Temperature:				
Ranges	-	-	-	-50 °C ~ 1000 °C
Resolution	-	-	-	0.1 °C
Basic Accuracy	NA	NA	NA	±(1%+1 °C)
Overload Protection: 1000V rms	-	-	-	-

GENERAL:

	APPA 133F	APPA 136F	APPA 137F	APPA 138F
Sampling Rate	3times/sec	3times/sec	3times/sec	3times/sec
Overload Indication	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"
Low Battery Indication	▢	▢	▢	▢
Auto Power Off: Approx. 15minutes	-	-	-	-
Operating Temperature: 0 °C ~ 50 °C, ≤ 80% RH	-	-	-	-
Storage Temperature: -20 °C ~ 60 °C	-	-	-	-
Temperature Coefficient: 0.2(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	CAT IV 600V CAT III 1000V
Maximum Conductor Size	37mm dia., (750MCM)	37mm dia., (750MCM)	42 mm dia., (1000MCM)	42mm dia., (1000MCM)
Maximum Jaw Opening	45mm	45mm	45mm	45mm
Maximum Busbar Size	45x10mm	45x10mm	62x12mm	62x12mm
Power Requirement: Single 9V battery (NEDA 1604A or IEC 6LF22)	-	-	-	-
Battery Life: In hours (Alkaline battery)	100	100	100	100
Size: 87.5mm(W) x 242 mm(L) x 50.5 mm(H)	-	-	-	-
	87.5mm(W) x 257mm(L) x 50.5 mm(H)	-	-	-
Weight: In grams (with battery)	435	435	470	470
Included with instrument: Test Leads, ZnC battery (installed) manual and carrying case	-	-	-	(Also Including Temperature Probe)

APPA®

All New Design Bluetooth Clamp-on Meter APPA 150/150B Series



ACTIVE BACKLIT

APPA 150/150B series Pro clamp meters all have an active backlit display that turns ON at the touch of a button or rotate the knob, also automatically goes off to save battery life.



ADVANCED POWER FEATURES MADE EASY

APPA 150/150B series Pro clamp meter provide advanced Power features, Phase rotation, Total Harmonics Distortion and even Harmonics 1 to 25th with easy-to-use interface, which enables fully professional power measurement application with excellent performance.

APPA Connect APP

APPA 150B Series with Bluetooth Ver. 4.0 feature for streaming data via iOS/Android APP on any mobile devices to provide easy Data Acquisition and Analysis.



INNOVATIVE LIGHTENING AIDS AND LIVE VOLTAGE INDICATION

Torch lightening during cable clamping and automatically non contact voltage detection for better identification of working environment.

FLEXIBLE CURRENT TEST

Integrated with sFLEX-T flexible current probe expanding the current range to 3,000 ACA, providing direct "Amp" reading display, making electrical measurement easier and safer.



AUTOMATIC SELECTION

Automatically detect AC, DC and AC+DC of Ampere and Voltage function with AC+DC True RMS, and automatically selection of resistance, continuity and diode.

APPA 155
APPA 155B Bluetooth



10,000 count digital display
50 segment Analog Bar graph
Active Backlit with Large white LED display
Bluetooth (with "B" letter) connecting (155B)
Auto Store up to 1000 memories
Data Logging up to 9,999 records
VoltSeek™ for non-contact voltage detection
True RMS reading on AC and AC+DC mode
Torch lightening on trigger push
Auto Ohms/Continuity/Diode selection
AC 600 Amps capability
Auto AC/DC 1000 Volts capability and selection
AC Current via Flexible Current Probe
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
ContiVision™ for visible continuity beeper
Frequency Counter
Capacitance capability
Smart Data Hold
Peak Hold
Inrush Current
Min Max Hold
High Frequency Rejection
Auto Power Off
Up to 33mm dia. (750MCM) Conductor
4 feet Drop Proof
Deluxe Carrying Case
Hand Guard & Stream Line Designed
Convenient Battery Door
CAT IV 600V /CAT III 1000V Safety Standard

APPA 156
APPA 156B Bluetooth



10,000 count digital display
50 segment Analog Bar graph
Active Backlit with Large white LED display
Bluetooth (with "B" letter) connecting (156B)
Auto Store up to 1000 memories
Data Logging up to 9,999 records
VoltSeek™ for non-contact voltage detection
True RMS reading on AC and AC+DC mode
Torch lightening on trigger push
Auto Ohms/Continuity/Diode selection
Auto AC/DC 600 Amps capability and selection
Auto AC/DC 1000 Volts capability and selection
AC Current via Flexible Current Probe
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
ContiVision™ for visible continuity beeper
Frequency Counter
Capacitance capability
Smart Data Hold
Peak Hold
Inrush Current
Min Max Hold
High Frequency Rejection
Auto Power Off
Up to 33mm dia. (750MCM) Conductor
4 feet Drop Proof
Deluxe Carrying Case
Hand Guard & Stream Line Designed
Convenient Battery Door
CAT IV 600V /CAT III 1000V Safety Standard

APPA 157
APPA 157B Bluetooth



10,000 count digital display
50 segment Analog Bar graph
Active Backlit with Large white LED display
Bluetooth (with "B" letter) connecting (157B)
Auto Store up to 1000 memories
Data Logging up to 9,999 records
VoltSeek™ for non-contact voltage detection
True RMS reading on AC and AC+DC mode
Torch lightening on trigger push
Auto Ohms/Continuity/Diode selection
AC 1000 Amps capability
Auto AC/DC 1000 Volts capability and selection
AC Current via Flexible Current Probe
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
ContiVision™ for visible continuity beeper
Frequency Counter
Capacitance capability
Smart Data Hold
Peak Hold
Inrush Current
Min Max Hold
High Frequency Rejection
Auto Power Off
Up to 40mm dia. (1000MCM) Conductor
4 feet Drop Proof
Deluxe Carrying Case
Hand Guard & Stream Line Designed
Convenient Battery Door
CAT IV 600V /CAT III 1000V Safety Standard

APPA 158
APPA 158B Bluetooth



10,000 count digital display
50 segment Analog Bar graph
Active Backlit with Large white LED display
Bluetooth (with "B" letter) connecting (158B)
Auto Store up to 1000 memories
Data Logging up to 9,999 records
VoltSeek™ for non-contact voltage detection
True RMS reading on AC and AC+DC mode
Torch lightening on trigger push
Auto Ohms/Continuity/Diode selection
Auto AC/DC 1000 Amps capability and selection
Auto AC/DC 1000 Volts capability and selection
AC Current via Flexible Current Probe
Power and Power factor Measurement
Total Harmonics Distortion and Harmonics 1 to 25
Phase Rotation Indication
100K Ohms Resistance capability
ContiVision™ for visible continuity beeper
Frequency Counter
Capacitance capability
°C/°F Temperature Function
Temperature probe included
Smart Data Hold
Peak Hold
Inrush Current
DCA Auto-Zeroing Key
Min Max Hold
High Frequency Rejection
Auto Power Off
Up to 40mm dia. (1000MCM) Conductor
4 feet Drop Proof
Deluxe Carrying Case
Hand Guard & Stream Line Designed
Convenient Battery Door
CAT IV 600V /CAT III 1000V Safety Standard

APPA 150 SERIES CLAMP MULTIMETERS

FEATURES:	APPA 155(B)	APPA 156(B)	APPA 157(B)	APPA 158(B)
Digital display	10000 count	10000 count	10000 count	10000 count
Analog bar graph	50 segments	50 segments	50 segments	50 segments
True RMS measuring	AC+DC	AC+DC	AC+DC	AC+DC
Bluetooth	•	•	•	•
Auto Store	1000	1000	1000	1000
Data Logging	9999	9999	9999	9999
Auto Ranging	•	•	•	•
Auto AC/DC detection	•	•	•	•
Smart Data hold	•	•	•	•
Min/Max function	•	•	•	•
Peak hold	•	•	•	•
Inrush Current Measurement	•	•	•	•
DCA Zeroing	NA	•	NA	•
HFR(LPF)	•	•	•	•
Phase Rotation	•	•	•	•
Backlight	•	•	•	•
Torch Lighting	•	•	•	•
VoltSeek™ (None Contact Voltage)	•	•	•	•
Automatic Power Off (can be disabled)	•	•	•	•
Continuity Check (Beep/LED)	•	•	•	•
Diode Test	•	•	•	•
Frequency counter	•	•	•	•
Capacitance Measurement	•	•	•	•
Temperature Measurement	NA	NA	NA	•
Total Harmonic Distortion	•	•	•	•
Harmonics	•	•	•	•
Power and Power Factor measurement	•	•	•	•
Shock proof from 4 feet drops	•	•	•	•
Standard full-sleeve safety test leads	•	•	•	•
Deluxe carrying case	•	•	•	•

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

	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
ACA:				
Ranges	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
Resolution	0.01A	0.01A	0.01A	0.01A
Basic Accuracy: ±(1.5%+5d) at 50Hz~500Hz	•	•	•	•
Conversion Type:	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
DCA:				
Ranges	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
Resolution	NA	0.01A	NA	0.01A
Basic Accuracy: ±(1.5%+5d)	•	±(1.5%+5d)	•	±(1.5%+5d)
AC Current via SFLEX-T Ranges	0.1A~3000A	0.1A~3000A	0.1A~3000A	0.1A~3000A
AC+DC A:				
Ranges	100.00A, 600.0A	100.00A, 600.0A	100.00A, 1000.0A	100.00A, 1000.0A
Resolution	NA	0.01A	NA	0.01A
Basic Accuracy: ±(3.0%+10d)	•	±(3.0%+10d)	•	±(3.0%+10d)
ACV:				
Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
Resolution	0.01V	0.01V	0.01V	0.01V
Basic Accuracy: ±(1.0%+5d) at 50Hz~500Hz	•	•	•	•
Input Impedance: 3.5MΩ	•	•	•	•
Overload Protection: 1000V rms	•	•	•	•
Conversion Type:	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS	AC+DC True-RMS
DCV:				
Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
Resolution	0.01V	0.01V	0.01V	0.01V
Basic Accuracy: ±(0.70%+2d)	•	•	•	•
Input Impedance: 3.5MΩ	•	•	•	•
Overload Protection: 1000V rms	•	•	•	•
AC+DC V:				
Ranges	100.00V~1000V	100.00V~1000V	100.00V~1000V	100.00V~1000V
Resolution	0.01V	0.01V	0.01V	0.01V
Basic Accuracy: ±(1.7%+7d)	±(1.7%+7d)	±(1.7%+7d)	±(1.7%+7d)	±(1.7%+7d)
Input Impedance: 3.5MΩ	•	•	•	•
Overload Protection: 1000V rms	•	•	•	•
Watt:				
Ranges	10KW~600KW	10KW~600KW	10KW~1MW	10KW~1MW
Resolution	1W	1W	1W	1W
PF:				
Ranges	-1.00~1.00	-1.00~1.00	-1.00~1.00	-1.00~1.00
Resolution	0.01	0.01	0.01	0.01
Basic Accuracy	±5d	±5d	±5d	±5d
T.H.D.:				
Ranges	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
Resolution	0.1%	0.1%	0.1%	0.1%
Basic Accuracy	±(3.0%+10d)	±(3.0%+10d)	±(3.0%+10d)	±(3.0%+10d)
Harmonics:				
Ranges	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%	0.1%~100.0%
Resolution	0.1%	0.1%	0.1%	0.1%
Basic Accuracy	±(5.0%+10d) for order 1-12 ±(10.0%+10d) for order 13-25	±(5.0%+10d) for order 1-12 ±(10.0%+10d) for order 13-25	±(5.0%+10d) for order 1-12 ±(10.0%+10d) for order 13-25	±(5.0%+10d) for order 1-12 ±(10.0%+10d) for order 13-25
OHM:				
Ranges	1.0000KΩ, 10.00KΩ, 100.00KΩ	1.0000KΩ, 10.00KΩ, 100.00KΩ	1.0000KΩ, 10.00KΩ, 100.00KΩ	1.0000KΩ, 10.00KΩ, 100.00KΩ
Resolution	0.1Ω	0.1Ω	0.1Ω	0.1Ω
Accuracy: ±(1.0%+5d)	±(1.0%+5d)	±(1.0%+5d)	±(1.0%+5d)	±(1.0%+5d)
Overload Protection: 1000V rms	•	•	•	•
Continuity Buzzer: <30Ω, 2KHz tone buzzer	•	•	•	•
Diode Test: Open circuit voltage: ±1.8V max	•	•	•	•
Capacitance				
Ranges	400.0μF, 4.000mF	400.0μF, 4.000mF	400.0μF, 4.000mF	400.0μF, 4.000mF
Resolution	1nF	1nF	1nF	1nF
Basic Accuracy: ±(1.9%+8d)	•	•	•	•
Overload Protection: 1000V rms	•	•	•	•
Frequency Counter:				
Ranges	20.00Hz~10.00KHz	20.00Hz~10.00KHz	20.00Hz~10.00KHz	20.00Hz~10.00KHz
Resolution	0.01Hz	0.01Hz	0.01Hz	0.01Hz
Accuracy	0.5%+3d	0.5%+3d	0.5%+3d	0.5%+3d
Temperature:				
Ranges	•	•	•	-50°C~1000°C
Resolution	•	•	•	0.1°C
Accuracy	•	•	•	±(1.0%+3°C)
Overload Protection: 1000V rms	•	•	•	•

GENERAL:

	3times/sec	3times/sec	3times/sec	3times/sec
Sampling Rate	3times/sec	3times/sec	3times/sec	3times/sec
Overload Indication	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"
Low Battery Indication	□	□	□	□
Auto Power Off: Approx. 15 minutes	•	•	•	•
Operating Temperature: 0°C~50°C, ≤ 80% RH	•	•	•	•
Storage Temperature: -10°C~50°C	•	•	•	•
Temperature Coefficient: 0.2(Spec, Acc)/°C, <18°C or >28°C	•	•	•	•
Safety: IEC 61010 and designed to meet UL61010 specifications	•	•	•	•
Maximum Conductor Size	CAT IV 600V/CAT III 1000V 33mm dia. (750MCM)	CAT IV 600V/CAT III 1000V 33mm dia. (750MCM)	CAT IV 600V/CAT III 1000V 40mm dia. (1000MCM)	CAT IV 600V/CAT III 1000V 40mm dia. (1000MCM)
Maximum Busbar Size	45x10mm	45x10mm	62x12mm	62x12mm
Power Requirement: AAA size 1.5V x 6 batteries	•	•	•	•
Battery Life: In hours (Alkaline battery)	50	50	50	50
Size: 243mm(L) X 103mm(W) x 55m(H)	•	•	•	•
258mm(L) X 103mm(W) x 55m(H)	•	•	•	•
Weight: In grams(with battery)	540	540	600	600
Included with instrument: Test Leads, ZnC battery (installed) carrying case and manual	•	•	•	(also including Temperature Probe)

APPA 200 Series VersaMeter™

The Most Friendly Bench Instruments

 Bluetooth





Designed for using in a laboratory



Designed for harsh environment



Extra back storage for full accessories



Handle carrying design for mobility



All New Design Bluetooth High Performance Desktop Multimeter



NEW

APPA 208

APPA 208B Bluetooth

- 40,000 count digital display and 43 segment analog display
- Large white LED backlight display
- Dual display
- AC, DC and AC+DC on Voltage & Current mode with Frequency indication
- 0.03% DCV accuracy
- 40M Ohms Resistance capability
- True RMS reading on AC and AC+DC mode
- Auto Store up to 100 memories
- Data Logging up to 40,000 records
- BlueTooth(Ver. 4.0, 208B only)
- Auto Calibration
- On-Screen-Menu Selection
- LoZ for prevent false reading from ghost voltage
- Auto Fuse Detector
- High Frequency Rejection (LPF)
- Min/Max/Avg
- Relative/% Function
- Auto Hold/Peak Hold
- 11A/1000V & 400mA/1000V High Energy Fuses
- dBm/dB measurement
- Store/Recall memories
- Virtual Instrumentation
- USB interface with Software included
- Temperature Probe included
- Test lead storage compartment
- Side & neck strap design for handle carrying
- Power Line 110V, 220V Selectable
- CAT III 600V/CAT II 1000V standard

APPA 201N

- 2000 count large scale digital display
- Autoranging and Manual selection
- Backlight
- 0.5% DCV accuracy
- 20M Ohms Resistance capability
- True RMS reading on AC mode
- AC/DC Dual Power Sources
- Data Hold
- Min/Max function
- Capacitance measurement
- Frequency Counter
- Diode and Continuity Test
- 6KV transients protection on 660 VAC feeders
- Test lead storage compartment
- Side & neck strap design for handle carrying
- Power Line 110V, 220V Selectable
- CAT III 300V/CAT II 600V standard

APPA 200 SERIES VERSAMETERS

FEATURES :

	APPA 201N	APPA 208	APPA 208B
Digital display	2000 count	4000/40000 count	4000/40000 count
Analog Bar graph Segments	N/A	43	43
Autoranging and Manual selection	*	*	*
AC+DC True RMS	AC only	*	*
Auto Calibration	N/A	*	*
Backlit	*	*	*
Automatic AC/DC voltage detector with low impedance(Auto-V LoZ)	N/A	*	*
High Frequency Rejection (HFR)	N/A	*	*
Peak Hold	N/A	*	*
Auto Hold	*	*	*
MIN/MAX	*	*	*
Relative Mode	N/A	*	*
Duty Cycle	N/A	*	*
Memory Store/Recall	N/A	1000	1000
dBm/dB reading	N/A	*	*
Data Logging Capacity	N/A	40,000	40,000
Optical interface	N/A	*	*
Bluetooth	N/A	N/A	*
Auto fuse detection	N/A	*	*
Beep Guard	N/A	*	*
Low Battery Indication	*	*	*

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

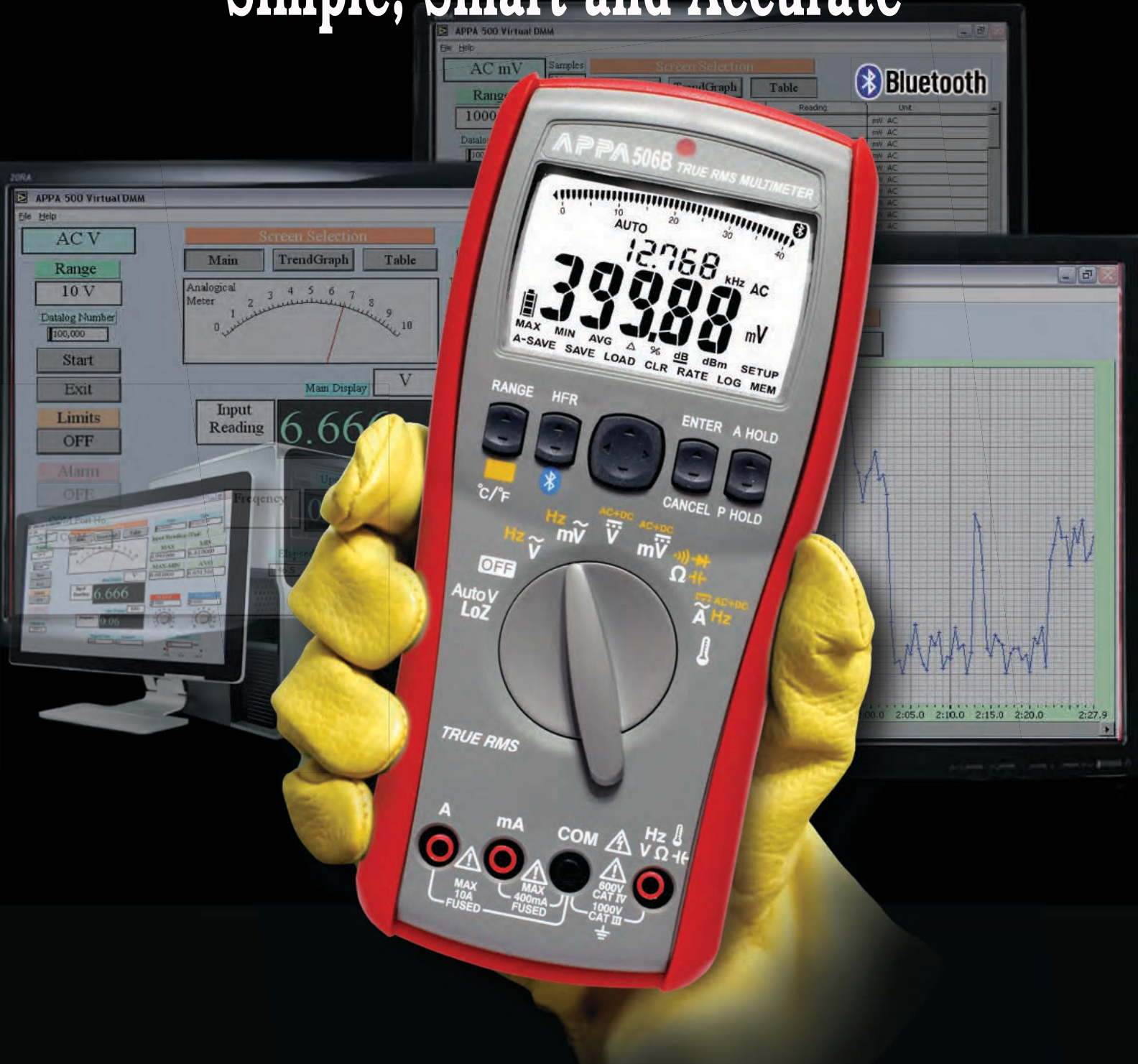
		APPA 201N	APPA 208	APPA 208B
DCV :	Ranges	200mV to 600V	40mV to 1000V	40mV to 1000V
	Resolution	100uV	1uV	1uV
	Basic Accuracy	±(0.5%+2d)	±(0.03%+10d)	±(0.03%+10d)
ACV :	Ranges	200mV to 600V	40mV to 1000V	40mV to 1000V
	Resolution	100uV	1uV	1uV
	Basic Accuracy	±(1.5%+5d)	±(0.5%+20d)	±(0.5%+20d)
	Bandwidth	50Hz to 500Hz	40Hz to 100kHz	40Hz to 100kHz
(AC+DC)V :	Ranges & Resolution : Same as ACV, except Accuracy	N/A	*	*
Auto V-LoZ	Range: 400.0V, 1000V	N/A	*	*
DCA :	Ranges	200uA to 10A	40mA to 10A	40mA to 10A
	Resolution	0.1uA	1uA	1uA
	Basic Accuracy	±(1.0%+2d)	±(0.2%+10d)	±(0.2%+10d)
ACA :	Ranges	200uA to 10A	40mA to 10A	40mA to 10A
	Resolution	0.1uA	1uA	1uA
	Basic Accuracy	±(1.5%+5d)	±(0.8%+20d)	±(0.8%+20d)
	Bandwidth	50Hz to 500Hz	40Hz to 10KHz	40Hz to 10KHz
(AC+DC)A :	Ranges & Resolution : Same as ACA, except Accuracy	N/A	*	*
OHM :	Ranges	200Ω to 20MΩ	400Ω to 40MΩ	400Ω to 40MΩ
	Resolution	0.1Ω	0.01Ω	0.01Ω
	Basic Accuracy	±(0.7%+3d)	±(0.2%+10d)	±(0.2%+10d)
Continuity :	2kHz Tone Buzzer	<50Ω	10Ω~50Ω(Adj)	10Ω~50Ω(Adj)
Diode Test:	Open Circuit Voltage	±3V	±2.5V	±2.5V
Frequency Counter :	Ranges	2000Hz to 20MHz	40Hz to 4MHz	40Hz to 4MHz
	Resolution	1Hz	0.001Hz	0.001Hz
	Basic Accuracy	±(0.01%+2d)	±5d	±5d
Duty Factor :	Ranges	N/A	5% to 95%	5% to 95%
	Resolution	N/A	0.1%	0.1%
	Basic Accuracy : 5Hz to 10kHz, 5Vp-p	N/A	±3d	±3d
Capacitance :	Ranges	2nF to 2mF	40nF to 40mF	40nF to 40mF
	Resolution	1pF	10pF	10pF
	Basic Accuracy	±(1.9%+8d)	±(0.9%+2d)	±(0.9%+2d)
°C / °F	Ranges	N/A	-200°C to 1200°C	-200°C to 1200°C
	Resolution :	N/A	0.1°C	0.1°C
	Basic Accuracy :	N/A	±(1%+30d) for °C	±(1%+30d) for °C

GENERAL :

	APPA 201N	APPA 208	APPA 208B
Analog bargraph display :	N/A	*	*
Measuring Rate:	1.5 times/sec	10 times/sec	10 times/sec
Over range Indication :	OL	OL	OL
Auto Power Off :	10 minutes	1~30 minutes(Adj)	1~30 minutes(Adj)
Operating Temperature : 0°C~50°C, ≤80%RH	*	*	*
Storage Temperature : -20°C~60°C	*	*	*
Temperature Coefficient : 0.1 x (Spec.Acc)/°C, <18°C or >28°C	*	*	*
Safety : IEC 1010-1	CAT III 300V/CAT II 600V	CAT III 600V/CAT II 1000V	CAT III 600V/CAT II 1000V
EMC: EN61326-1	N/A	*	*
Power Requirement : AC 100~ 240V, 50/60Hz, 10VA	*	*	*
DC AA or LR6 or AM3 battery 1.5V x 6	*	*	*
Battery Life : In hours without backlight (Alkaline battery)	1200	50	50
Size : without carrying case (mm)	218(W) x 195(L) x 73(H)	230(W) x 233(L) x 95(H)	230(W) x 233(L) x 95(H)
Weight : without power cord	1.3Kg	1.6Kg	1.6Kg
Accessories : Test Leads, carrying strap, power cord and manual	*	(also including Temp. probe, USB cable and APPA WinDMM 208 software)	(also including Temp. probe, USB cable and APPA WinDMM 208 software)

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.



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.



AUTOMATICALLY VOLTAGE DETECT WITH LOW IMPEDANCE

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



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.

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 detect AC and DC
 AC mode with Frequency indication
 Auto Selection on Ohm, Capacitance, Diode or Continuity(505)
 0.03% DCV accuracy(503)
 0.015% DCV accuracy(505)
 True RMS reading on AC and AC+DC mode
 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



APPA 507 Process Multimeter

50,000 count extra large digital display
 Auto Backlit, Dual display
 Auto detect AC and DC
 Frequency indication
 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% to 0%, 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



APPA 506/506B Bluetooth

40,000 count digital display and 43 segment analog display
 Large white LED backlight display
 Auto Backlit, Dual display
 AC 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
 High Frequency Rejection(LPF)
 Min/Max/Avg
 Relative/% Function
 Auto Hold/Peak Hold
 Store/Recall memories
 Virtual Instrumentation
 Continuity Check/Beeper
 Selectable continuity level: 10 to 50Ω
 dBm/dB measurement
 USB interface with Software included



NEW

APPA 501/502

4,000/40,000 counts digital display and 43 segments analog display
 Large white LED backlight display
 Auto Backlit, Dual reading display
 AC mode with Frequency indication
 True RMS reading on AC and AC+DC mode
 0.05% DCV accuracy
 Up to 4GΩ Resistance measurement
 Temperature measurement (502 Only)
 LoZ for prevent false reading from ghost voltage
 High Frequency Rejection(LPF)
 Relative Δ & Relative% Function
 Min/Max/Avg
 Auto Hold/Peak Hold
 Auto Store up to 1,000 memories
 Data Logging
 up to 20,000 records (501)
 up to 40,000 records (502)
 Beeper Guard
 Selectable continuity level: 10 to 50Ω
 Auto Fuse Detector
 dBm/dB measurement
 USB interface with Software



APPA 500 SERIES MULTIMETERS

FEATURES :

	APPA 501/502	APPA 503	APPA 505	APPA 506/506B	APPA 507
Digital display	4,000 / 40,000 count	4,000 / 40,000 count	10,000 / 100,000 count	4,000 / 40,000 count	50,000 count
Analog Bar graph Segments	43	43	43	43	N/A
True RMS reading	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC	AC, AC+DC, HFR AC
Auto Backlit, Dual Display	•	•	•	•	•
Auto detect AC and DC	N/A	•	•	N/A	•
AC 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	N/A
Store/Recall memories	1000	1000	1000	1000	100
dBm/dB measurement	•	•	•	•	N/A
Data Logging	20,000 / 40,000	20,000	20,000	40,000	N/A
USB interface	•	•	•	•	•
Automatic power shut off	•	•	•	•	•
Bleep Guard with Auto fuse detection	•	•	•	•	N/A
All weather housing	•	•	•	•	•
Full Accessories	•	•	•	•	•

SPECIFICATIONS : (All at 23°C ±5°C, ≅80% R.H.) Multiply accuracy digit by 10 in 40,000/50,000/100,000 count mode.

	APPA 501/502	APPA 503	APPA 505	APPA 506/506B	APPA 507
DCV :					
Ranges	40mV to 1000V	40mV to 1000V	100mV to 1000V	40mV to 1000V	50mV to 1000V
Resolution	1uV	1uV	1uV	1uV	1uV
Basic Accuracy	±(0.05%+20d)	±(0.03%+20d)	±(0.015%+20d)	±(0.03%+10d)	±(0.05%+5d)
ACV :					
Ranges	40mV to 1000V	40mV to 1000V	100mV to 1000V	40mV to 1000V	50mV to 1000V
Resolution	1uV	1uV	1uV	1uV	1uV
Basic Accuracy	±(0.6%+30d)	±(0.7%+50d)	±(0.4%+50d)	±(0.5%+20d)	±(0.5%+20d)
Bandwidth	45Hz to 20kHz	40Hz to 100kHz	40Hz to 100kHz	40Hz to 100kHz	40Hz to 10kHz
Overload Protection : 1000V rms	•	•	•	•	•
(AC+DC)V :					
Ranges & Resolution : Same as ACV, except Accuracy	•	•	•	•	•
Auto V-LoZ	Range: 400.0V, 1000V	N/A	N/A	•	•
DCA :					
Ranges	40mA to 10A	40mA to 10A	10mA to 10A	40mA to 10A	50mA to 1A
Resolution	1uA	1uA	0.1uA	1uA	1uA
Basic Accuracy	±(0.2%+20d)	±(0.2%+40d)	±(0.1%+40d)	±(0.2%+10d)	±(0.05%+5d)
Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy	•	•	•	•	•
ACA :					
Ranges	40mA to 10A	40mA to 10A	10mA to 10A	40mA to 10A	50mA to 1A
Resolution	1uA	1uA	0.1uA	1uA	1uA
Basic Accuracy	±(0.8%+30d)	±(0.8%+80d)	±(0.7%+80d)	±(0.8%+20d)	±(1.0%+20d)
Bandwidth	45Hz to 1kHz	40Hz to 1kHz	40Hz to 1kHz	40Hz to 10kHz	40Hz to 10kHz
Input Protection : 440mA/1000V & 11A/1000V DC/AC high energy	•	•	•	•	•
(AC+DC)A :					
Ranges & Resolution : Same as ACA, except Accuracy	•	•	•	•	•
OHM :					
Ranges	400Ω to 4GΩ	400Ω to 40MΩ	1000Ω to 40MΩ	400Ω to 40MΩ	500Ω to 50MΩ
Resolution	0.01Ω	0.01Ω	0.01Ω	0.01Ω	0.01Ω
Basic Accuracy	±(0.2%+10d)	±(0.2%+30d)	±(0.025%+30d)	±(0.2%+10d)	±(0.2%+10d)
Continuity & Diode Test	2kHz Tone Buzzer, Open Circuit Voltage : ±3V	10Ω - 50Ω (Adj)	<50Ω	10Ω - 50Ω (Adj)	<30Ω
Frequency Counter :					
Ranges	400Hz to 100kHz	40Hz to 4MHz	40Hz to 4MHz	400Hz to 100kHz	500Hz to 100kHz
Resolution	0.001Hz	0.001Hz	0.001Hz	0.01Hz	0.01Hz
Basic Accuracy	±(5d)	±(0.002%+10d)	±(0.002%+10d)	±5d	±3d
Duty Factor :					
Ranges	N/A	20% to 80%	20% to 80%	N/A	N/A
Resolution	N/A	0.1%	0.1%	N/A	N/A
Basic Accuracy	N/A	±(0.1%+10d)	±(0.1%+10d)	N/A	N/A
Capacitance :					
Ranges	40nF to 40mF	4nF to 40mF	4nF to 40mF	40nF to 40mF	N/A
Resolution	10pF	1pF	1pF	10pF	N/A
Basic Accuracy	±(0.9%+2d)	±(0.9%+2d)	±(0.8%+2d)	±(0.9%+2d)	N/A
°C / °F					
Ranges	N/A / -200°C to 1200°C	-200°C to 1200°C	-200°C to 1200°C	-200°C to 1200°C	-200°C to 1200°C
Resolution : 0.1°C, Basic Accuracy : ±(1%+1°C)	N/A / .	•	•	•	•
Overload Protection : 1000V rms	N/A / .	•	•	•	•
Output :					
Ranges					0mA to 24mA
Source Mode					1uA
(Int. Battery Operation)					±(0.05%+5d)
Resolution					>24V / 24mA
Basic Accuracy					0mA to 24mA
Driver					1uA
Output :					±(0.05%+5d)
Simulate Mode					>24V / 24mA
(Ext. 24V Loop Supply)					50mA
Resolution	N/A	N/A	N/A	N/A	1uA
Basic Accuracy					±(0.05%+5d)
Driver					>24V / 1.25KΩ

GENERAL :

	APPA 501/502	APPA 503	APPA 505	APPA 506/506B	APPA 507
Sampling Rate :	10times/sec	3times/sec	3times/sec	10times/sec	10times/sec
Overload Indication : "OL" or "-OL"	•	•	•	•	•
Low Battery Indication	□	□	□	□	□
Auto Power Off :	1-30 minutes(Adj)	1-60 minutes(Adj)	1-60 minutes(Adj)	1-30 minutes(Adj)	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	CAT IV 600V, CAT III 1000V
Battery Life : In hours (Alkaline battery)	50	100	100	50	100
Size : 95mm(W) x 207mm(L) x 52mm(H), with holster	•	•	•	•	•
Weight : In grams (with holster)	630	630	630	630	630
Accessories : Test Leads, Alligator Clips, Temp. daptor, Bead probe, Protective Holster, USB cable, Software, Magnetic Hanging Kit, Alkaline batteries (installed) and manual	•	•	•	•	•

APPA 600 Series

Insulation Tester and Multimeter





CONVENIENT REPETITIVE TESTING

Ergonomically designed remote test probe for repetitive testing without pressing the TEST button on Tester/Meter for better convenience.



DAY & NIGHT

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



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.



INSULATION TESTING

Insulation testing with leakage current display (605) and testing range up to 20GΩ with 50V, 100V, 250V, 500V and 1000V DC testing voltage.



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.



LOW PASS FILTER (HIGH FREQUENCY REJECTION)

Bypass the noise of electrical equipment for stable reading of measurement.



NEW

APPA 605 Insulation Resistance Tester

- 4,000 count extra large digital display
- 48 segments analog bar graph
- Auto Backlit, Dual display
- Insulation test range: 0.01MΩ to 20GΩ
- Insulation test voltage: 50V, 100V, 250V, 500V, 1000V
- Auto AC/DC Voltage Detection
- Automatic calculation of Polarization Index and Dielectric Absorption Ratio
- Store/Recall memories
- Convenient Compare (Pass/Fail) Function
- Resistance capability from 0.01Ω to 20.00kΩ
- Auto Power Off to save battery life
- Included with Remote test probe, test leads, alligator clips and magnetic hanging kit.
- CAT. IV 600V



NEW

APPA 607 Insulation Multimeter

- 10,000 count extra large digital display
- 48 segments analog bar graph
- Auto Backlit, Dual display
- Auto AC/DC Voltage Detection
- AC/DC 1000V capability
- Min Max AVG features
- Store/Recall memories
- Resistance capability up to 40MΩ
- Insulation test range up to 22GΩ
- Insulation test voltage: 50V, 100V, 250V, 500V, 1000V
- Auto Power Off to save battery life
- Included with Remote test probe, test leads, alligator clips and magnetic hanging kit.
- CAT. IV 600V/CAT. III 1000V standard

APPA 600 SERIES INSULATION TESTER AND MULTIMETER

FEATURES:

	APPA 605	APPA 607
Digital display	4,000 count	10,000 count
Analog Bar graph Segments	48	48
Auto Backlit, Dual Display	•	•
Insulation Test Voltage 50V, 100V, 250V, 500V, 1000V	•	•
Insulation Test 0.001MΩ~22.0GΩ	N/A	•
Insulation Test 0.001MΩ ~20.0GΩ	•	N/A
Auto-discharge of capacitive voltage	•	•
Min/Max	•	•
Store/Recall Memories	•	•
Low Pass Filter (High Frequency Rejection)	•	•
Auto AC/DC Voltage detect	•	•
Compare Function	•	N/A
P/DAR	•	N/A
Insulation test smooth testing	N/A	•
Continuity	N/A	•
Diode Test	N/A	•
AC/DC mV	N/A	•
AC/DC mA	N/A	•
Frequency	N/A	•
Capacitance	N/A	•
Temperature	N/A	•
Temp. Adaptor & Bead probe	N/A	•
Remote Probe, test leads, alligator clips	•	•
Automatic power shut off	•	•

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

	APPA 605	APPA 607
DCV:	Ranges: 600.0V	100.00mV~1000.0V
	Resolution: 0.1V	0.01mV
	Basic Accuracy: ±(1.0%+5d)	±(0.08%+2d)
	Input Impedance: 3MΩ	10MΩ
	Overload Protection: 600V rms or DC	1000V rms or DC
ACV:	Ranges: 600.0V	100.00mV~1000.0V
	Resolution: 0.1V	0.01mV
	Basic Accuracy: 50Hz~5KHz ±(1.5%+5d)	±(0.9%+3d)
	Input Impedance: 3MΩ//<100pF	10MΩ//<100pF
	Overload Protection: 600V rms or DC	1000V rms or DC
	Conversion Type: True RMS indicating	•
DCA:	Ranges:	100.00mA~400.0mA
	Resolution: N/A	0.01mA
	Basic Accuracy:	±(0.2%+2d)
	Input Protection: 440mA/1000V DC/AC fuse	•
ACA:	Ranges:	100.00mA~400.0mA
	Resolution: N/A	0.01mA
	Basic Accuracy: 40Hz~100KHz	±(1.5%+2d)
	Input Protection: 440mA/1000V DC/AC fuse	•
OHM/Earth Bond Resistance:	Ranges: 40.00Ω~40.00kΩ	1000.0Ω~40.00MΩ
	Resolution: 0.01Ω	0.1Ω
	Basic Accuracy: ±(1.5%+3d) at 400.0Ω	±(0.5%+2d)
	Overload Protection: 600V rms or DC	1000V rms or DC
Continuity Beeper:	<30Ω, 2KHz tone buzzer	•
Diode Test:	Open circuit voltage: 3V	±(0.5%+2d)
Insulation Resistance:	Testing Voltage Ranges: 50V, 100V, 250V, 500V, 1000V	50V, 100V, 250V, 500V, 1000V
	Resistance Ranges: 0.001MΩ~20.0GΩ	0.001MΩ~22.0GΩ
	Resolution: 1kΩ	1kΩ
	Basic Accuracy: ±(1.5%+5d)	±(1.5%+5d)
	Overload Protection: 600V rms or DC	1000V rms or DC
Frequency Counter:	Ranges:	10.00Hz~100kHz
	Resolution: N/A	0.01Hz
	Basic Accuracy:	±(0.1%+5d)
	Overload Protection:	1000V rms
Capacitance:	Ranges:	10.000nF~40.00mF
	Resolution: N/A	0.001nF
	Basic Accuracy:	±(1.2%+2d)
	Overload Protection:	1000V rms
°C / °F	Ranges:	-200°C~1200°C
	Resolution: N/A	0.1°C
	Basic Accuracy:	±(1%+1°C)

GENERAL:

	APPA 605	APPA 607
Sampling Rate:	3times/sec	6times/sec
Overload Indication: "OL" or "-OL"	•	•
Low Battery Indication		
Auto Power Off: Approx. 20 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, Compliance to IEC61557,	CAT. IV. 600V	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)	1100 times of insulation tests	80
Size: 95mm (W) x 200mm (L) x 51.20 mm (H), without holster	•	•
Weight: In grams (with holster)	630	630
Accessories: Remote Probe, Test Leads, Alligator Clips, Protective Holster, Magnetic Hanging Kit, Alkaline batteries (installed) and manual	•	Also included Temp. adaptor and Bead Probe

APPA 700 Series LCR Meters

Automatic Selection Technology





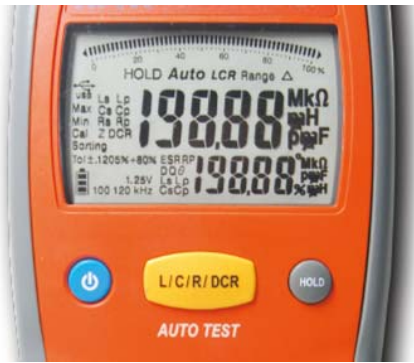
BATTERY EASY TO REPLACE

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



DAY & NIGHT

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



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.



FULL AUTOMATIC SELECTION

Automatically measuring L, C and R with Q, D, and θ by just turn on the meter, ...the first ever-smart LCR meter.



NO-OPTION FULL ACCESSORIES

Ergonomically designed test clip with comfort-grip (700b, 701, 703), 4-wires SMD test clip, magnetic hanging kit, shorting bar, AC power adaptor, USB cable and a CD software(703)



USB INTERFACE

Safe and easy used USB interface to connect to PC for data acquisition or connect to a DC power supply.

APPA 701



20,000/2,000 count dual digital display
 46 segments Bar graph display
Auto Selection of LCR Testing
 Auto Ranging
 Auto Backlit
 0.2% basic accuracy Capacitance and Inductance
 Measurement Parameters: L.C.R.D.Q. θ , EsR
 Testing Frequency: 100Hz/120Hz /1KHz/10KHz selectable
 Parallel/Serial test mode
 Sorting mode for QC
 Data Hold
 Self Calibration
 External DC power operation
 Zeroing Mode
 Low Battery Indication
 Auto Power Off
 Optical USB interface
 2 Wires Easy Testing
 4 Wires Accuracy Testing

NEW

APPA 700b



20,000/2,000 count dual digital display
 46 segments Bar graph display
Auto Selection of LCR Testing
 Auto Ranging
 Auto Backlit
 0.2% basic accuracy Capacitance and Inductance
 Measurement Parameters: L.C.R.D.Q. θ , EsR
 Testing Frequency: 100Hz/120Hz /1KHz selectable
 Parallel/Serial test mode
 Sorting mode for QC
 Data Hold
 Self Calibration
 External DC power operation
 Zeroing Mode
 Low Battery Indication
 Auto Power Off
 Optical USB interface
 2 Wires Easy Testing
 4 Wires Accuracy Testing

APPA 703



20,000/2,000 count dual digital display
 46 segments Bar graph display
Auto Selection of LCR Testing
 Auto Ranging
 Auto Backlit
 0.2% basic accuracy Capacitance and Inductance
 Measurement Parameters: L.C.R.D.Q. θ , EsR
 Testing Frequency: 100Hz/120Hz/1KHz/10KHz /100KHz selectable
 Parallel/Serial test mode
 Sorting mode for QC
Static recording (Max/Min)
 Data Hold
 Self Calibration
 External DC power operation
 Zeroing Mode
 Low Battery Indication
 Auto Power Off
 Optical USB interface
 2 Wires Easy Testing
 4 Wires Accuracy Testing

APPA 700 SERIES LCR METERS

FEATURES:	APPA 700b	APPA 701	APPA 703
Digital display	20,000/2,000 count	20,000/2,000 count	20,000/2,000 count
Analog Bar graph Segments	46	46	46
Auto Backlit, Dual Display	•	•	•
Auto Selection of LCR testing	•	•	•
Auto Ranging	•	•	•
Measurement Parameters	L,C,R,D,Q, θ , EsR	L,C,R,D,Q, θ , EsR	L,C,R,D,Q, θ , EsR
Testing Frequency 100Hz/120Hz/1kHz/10kHz/100kHz selectable			•
Testing Frequency 100Hz/120Hz/1kHz/10kHz selectable		•	
Testing Frequency 100Hz/120Hz/1kHz selectable	•		
Parallel/Serial test mode	•	•	•
Sorting mode for QC	•	•	•
Data Hold	•	•	•
Self-Calibration	•	•	•
External DC Power operation	•	•	•
Max/Min	N/A	N/A	•
Zeroing Mode	•	•	•
Low battery Indication	•	•	•
Automatic power shut off	•	•	•
USB interface	•	•	•
2 wires Easy Testing	•	•	•
4 wires Accuracy Testing	•	•	•
Full Accessories	Standard Accessories	Standard Accessories	•

SPECIFICATIONS:(All at 23°C ± 5°C, ≤ 80% R.H.) Multiply accuracy digit by 10 in 20,000 count mode.

Inductance:	Ranges	2000 μ H~20KH	200 μ H~20KH	20 μ H~20KH
	Resolution	0.1 μ H	0.01 μ H	0.001 μ H
	Basic Accuracy	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
Capacitance:	Ranges	2000pF~20mF	200pF~20mF	20pF~20mF
	Resolution	0.1pF	0.01pF	0.001pF
	Basic Accuracy	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
Resistance:	Ranges	20 Ω ~200M Ω	20 Ω ~200M Ω	20 Ω ~200M Ω
	Resolution	0.001 Ω	0.001 Ω	0.001 Ω
	Basic Accuracy	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
DC Resistance:	Ranges	200 Ω ~200M Ω	200 Ω ~200M Ω	200 Ω ~200M Ω
	Resolution	0.01 Ω	0.01 Ω	0.01 Ω
	Basic Accuracy: 40Hz~100KHz	± (0.2%+5d)	± (0.2%+5d)	± (0.2%+5d)
Q:	Ranges	0.000~2000	0.000~2000	0.000~2000
	Resolution	0.001	0.001	0.001
D:	Ranges	0.000~2000	0.000~2000	0.000~2000
	Resolution	0.001	0.001	0.001
θ :	Ranges:	± 90°	± 90°	± 90°
	Resolution	0.1°	0.1°	0.1°

GENERAL:

Sampling Rate	1.25 times/sec	1.25 times/sec	1.25 times/sec
Overload Indication: "OL" or "-OL"	•	•	•
Low Battery Indication	☐	☐	☐
Auto Power Off: Approx. 10 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: Complies with EN 61010-1, IEC 61010-1 and EN 61326-1	•	•	•
Power Requirement: AA size 1.5V x 4 batteries (NEDA 15A or IEC LR6)	•	•	•
Battery Life: In hours (No backlit, Alkaline battery)	80	80	80
Size: 95mm(W) x 200mm (L) x 51.20 mm(H), without holster	•	•	•
Weight: In grams (with batteries)	630	630	630
Accessories: Alligator Clips, Shorting Bar, Magnetic Hanging Kit, Alkaline batteries (installed) and manual	•	•	Also included 4 wires SMD clip, DC power cord, USB cable and CD-ROM software.

APPA®

APPA 705/707 Tweezer LCR meter

Automatic Selection Technology





NEW

APPA 705

- 20000 count digital display
- Auto Selection of LCR Testing
- Auto Ranging
- 0.5% basic accuracy Capacitance and Inductance
- Measurement Parameters: L.C.R.D.Q.θ, DCR
- Testing Frequency: 100Hz/120Hz /1KHz/10KHz selectable
- Self Calibration
- External USB power operation
- Zeroing Mode
- Low Battery Indication
- Auto Power Off
- USB interface
- Tweezers Easy Testing



NEW

APPA 707

- 20000 count digital display
- Auto Selection of LCR Testing
- Auto Ranging
- 0.5% basic accuracy Capacitance and Inductance
- Measurement Parameters: L.C.R.D.Q.θ, DCR
- Testing Frequency: 100Hz/120Hz /1KHz/10KHz/100KHz selectable
- Self Calibration
- External USB power operation
- Zeroing Mode
- Low Battery Indication
- Auto Power Off
- USB interface
- Tweezers Easy Testing
- Full accessories included

APPA 705 / 707 Tweezer LCR meter

FEATURES:	APPA 705	APPA 707
Main Display	20,000 count	20,000 count
Auto Selection on LCR testing	•	•
Auto Ranging	•	•
Measurement Parameters	L,C,R,D,Q,θ,DCR	L,C,R,D,Q,θ,DCR
Testing Frequency	100Hz/120Hz/1kHz/10kHz selectable	100Hz/120Hz/1kHz/10kHz /100kHz selectable
Self-Calibration	•	•
External USB Power operation	•	•
Zeroing Mode	•	•
Elegant Modern Design	•	•
Low Battery Segement Indication	•	•
Auto Power Shot off	•	•
USB Interface	•	•
4 Wire Easy Testing	•	•
Full Accessories	Standard Accessories	•

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

Inductance:	Ranges	200μH~2000mH	20μH~2000mH
	Minimum Resolution	0.01μH	0.001μH
	Basic Accuracy	±(0.5%+5d)	±(0.5%+5d)
Capacitance:	Ranges	200pF~200μF	200pF~200μF
	Minimum Resolution	0.01pF	0.01pF
	Basic Accuracy	±(0.5%+5d)	±(0.5%+5d)
Resistance:	Ranges	20Ω~200MΩ	20Ω~200MΩ
	Minimum Resolution	0.001Ω	0.001Ω
	Basic Accuracy	±(0.5%+5d)	±(0.5%+5d)
DC Resistance:	Ranges	200Ω~200MΩ	200Ω~200MΩ
	Minimum Resolution	0.01Ω	0.01Ω
	Basic Accuracy	±(0.5%+5d)	±(0.5%+5d)
Q:	Ranges	2.000~2000	2.000~2000
	Resolution	0.001	0.001
D:	Ranges	2.000~2000	2.000~2000
	Resolution	0.001	0.001
θ:	Ranges	±90°	±90°
	Resolution	0.1°	0.1°

GENERAL:

Sampling Rate	1.25 times/sec	1.25 times/sec
Overload Indication	"OL" or "-OL"	"OL" or "-OL"
Low Battery Indication	□	□
Auto Power Off: Approx. 10 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	•	•
Power Requirement: Li-ion 400mAh battery or Ext. DC 5V mini-USB plug	•	•
Battery Life(Full charged): In hours(No backlight)	20	20
Size: 38mm(W) x 168mm(L) x 23mm(D)	•	•
Weight: In grams	70	70
Included with instrument: Li-ion battery(installed), Flat tip, manual and carrying pouch	•	Also included Bend Tip, AC Adapter, USB cable and CD-ROM software

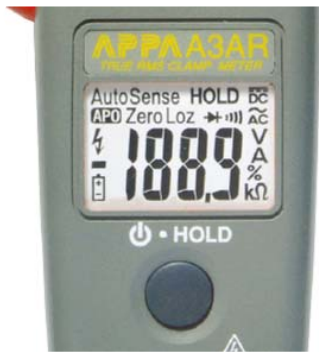
Specifications subject to change without notice.

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APPA A Series

The Innovative Electrical Tester





FULL AUTOMATIC SELECTION

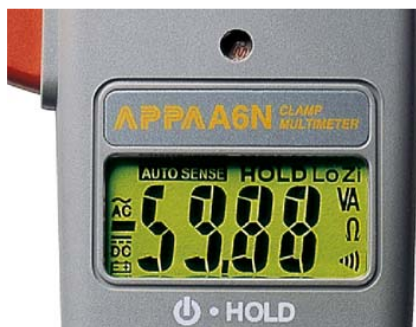
Automatically measuring Voltage, Resistance, Continuity, Diode and Ampere by just turn on the meter,.....the first ever smart electrical tester and clamp meter.

(A3AR, A5AR, A9, A7A, A6N, A6D and A6DR only)



INVENTIVE OPEN JAW

APPA A5AR, A7D, A7A and A5 provide an inventive open jaw technology for AC current measuring without opening a clamp jaw. 16mm jaw opening enable to measure aluminum 4/0 cable.



AUTO BACKLIT

An innovative automatic bright backlit feature on APPAA6N, A6D and A6DR gives you fulltime display visibility and increased battery life.

INNOVATIVE ADVANCED FEATRUERS

Featuring a safer and smarter display hold offers you an extra protection of measuring. An additional fast current captured Auto Hold function get your job done faster, safer and more accurate.

(A3AR, A5AR, A9, A7A, A6N, A6D and A6DR only)



PROBE HOLDER

Every A series tester (A5, A5AR, A7D, and A9 only) has a convenient test lead storage also provides probe holder for two poles voltage testing application.



BATTERY EASY TO REPLACE

Unscrew only one or two screws to remove battery door for battery replacement, designed for user's convenience without opening the bottom case.





APPA A5

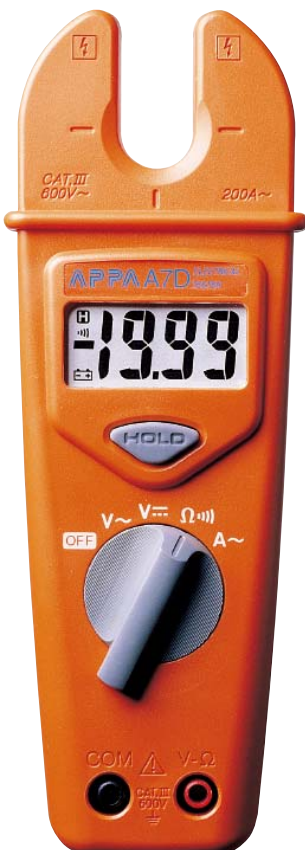
- 2000 count digital display
- VoltSense™ function
- Truly measure up to AC 200A**
- Aluminum 4/0 cable**
- AC 200 Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 20M Ohms Resistance range
- Continuity Beeper
- Diode Test
- Display Hold
- Auto Power Off
- Up to 16mm dia. conductor size
- CAT. IV 600V/ CAT. III 1000V
- Safety Standard



NEW

APPA A5AR

- 10000 count digital display with backlit
- Auto Selection on ACV, DCV, Ω, ACA, Diode, and Continuity
- True RMS reading on AC mode
- 0.3% basic DCV accuracy
- Smart Data Hold
- VoltSense™ feature (None contact voltage detecting)
- AC 200 Amps capability
- AC 1000 Volts/DC 1000 Volts capability
- 10K Ohms Resistance range
- Fast Continuity Beeper
- Battery capacity auto indication
- Auto Power Off (Enable and Disable available)
- Up to 16mm dia. Conductor size
- CAT. IV 600V /CAT. III 1000V
- Safety Standard



APPA A7D

- 2000 count digital display
- Truly measure up to AC 200A**
- Aluminum 4/0 cable**
- AC 200 Amps capability
- AC 600 Volts capability
- DC 600 Volts capability
- 2000 Ohms Resistance range
- Continuity Beeper
- Display Hold
- Auto Power Off
- Up to 16mm dia. conductor size
- CAT. III 600V Safety Standard



APPA A9

- 10000 count digital display
- Auto Selection on ACV, DCV, ACA, Ω, Continuity and Diode
- Smart Data Hold
- Auto Hold (Current mode only)
- AC 400 Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 10K Ohms Resistance range
- Fast Continuity Beeper
- Battery capacity auto indication
- Auto Power Off (Enable and disable available)
- Up to 27mm dia. (500MCM) Conductor
- CAT. IV 600V/ CAT. III 1000V
- Safety Standard



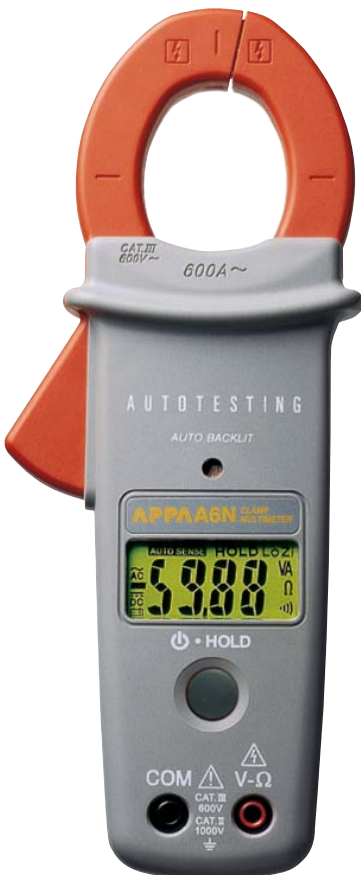
APPA A7A

- 10000 count digital display
- Auto Selection on ACV, DCV, ACA, Ω , Continuity and Diode
- Truly measure up to AC 200A Aluminum 4/0 cable**
- Single key operation for all functions
- Smart Data Hold
- Auto Hold (Current mode only)
- AC 200 Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 10K Ohms Resistance range
- Fast Continuity Beeper
- Battery capacity auto indication
- Auto Power Off (Enable and disable available)
- Up to 16mm dia. conductor size
- CAT. IV 600V/ CAT. III 1000V
- Safety Standard



APPA A6D/A6DR

- 10000 count digital display
- Auto Selection on ACV, DCV, ACA, DCA, Ω , Continuity and Diode
- Auto Backlit
- True RMS reading on AC mode (A6DR)
- Single key operation for all functions
- Auto Zeroing key for DCA
- Smart Data Hold
- Auto Hold (Current mode only)
- AC/DC 600 Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 10K Ohms Resistance range
- Fast Continuity Beeper
- Battery capacity auto indication
- Auto Power Off (Enable and disable available)
- Up to 35mm dia. (750MCM) conductor size
- Deluxe carrying case
- CAT. IV 600V/ CAT. III 1000V
- Safety Standard



APPA A6N

- 10000 count digital display
- Auto Selection on ACV, DCV, ACA, Ω Continuity and Diode
- Auto Backlit
- Single key operation for all functions
- Smart Data Hold
- Auto Hold (Current mode only)
- AC 600 Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 10K Ohms Resistance range
- Fast Continuity Beeper
- Battery capacity auto indication
- Auto Power Off (Enable and disable available)
- Up to 32mm dia. (750MCM) conductor size
- Deluxe carrying case
- CAT. III 600V/ CAT. II 1000V
- Safety Standard



NEW

APPA A3AR

- 10000 count digital display with backlit
- Auto Selection on ACV, DCV, Ω , ACA, Diode, and Continuity
- True RMS reading on AC mode
- 0.3% basic DCV accuracy
- Smart Data Hold
- VoltSense™ feature (None contact voltage detecting)
- AC 400 Amps capability
- AC 1000 Volts/DC 1000 Volts capability
- 10K Ohms Resistance range
- Fast Continuity Beeper
- Battery capacity auto indication
- Auto Power Off (Enable and Disable available)
- Up to 27mm dia. (500MCM) Conductor size
- CAT. III 600V /CAT. II 1000V
- Safety Standard

APPA A SERIES ELECTRICAL TESTER & CLAMP METER
SPECIFICATIONS:(All at 23°C±5°C, ≤ 80% R.H.)

		APPA A3AR	APPA A5	APPA A5AR
ACV:	Ranges	1.3V~1000.0V	200.0V, 1000V	1.3V~1000.0V
	Resolution	0.1V	0.1V	0.1V
	Basic Accuracy	50Hz~500Hz	50Hz~500Hz	50Hz~500Hz
		±(0.9%+3d)	±(1.5%+5d)	±(0.9%+3d)
	Input Impedance	6KΩ~420KΩ	2MΩ//<100pF	5KΩ~420KΩ
	Overload Protection: 600V rms	1000V	1000V	1000V
	Conversion Type: Average sensing RMS indicating	True RMS	-	True RMS
DCV:	Ranges	2.1V~1000.0V -0.7V~-1000.0V	200.0V, 1000V	2.1V~1000.0V -0.7V~-1000.0V
	Resolution	0.1	0.1V	0.1
	Basic Accuracy	±(0.3%+2d)	±(1.0%+2d)	±(0.3%+2d)
	Input Impedance	6KΩ~420KΩ	2MΩ//<100pF	5KΩ~420KΩ
	Overload Protection: 600V rms			
	1000V peak	-	-	-
ACA:	Ranges	400.0A	200.0A	200.0A
	Resolution	0.1A	0.1A	0.1A
	Basic Accuracy	50Hz~60Hz	50Hz~60Hz	50Hz~60Hz
		±(2%+5d)	±(3.0%+5d)	±(3.0%+5d)
	Conversion Type: Average sensing RMS indicating	True RMS	-	True RMS
DCA:	Ranges			
	Resolution			
	Basic Accuracy			
OHM:	Ranges	10KΩ	20MΩ	10KΩ
	Resolution	1Ω	0.1Ω	1Ω
	Basic Accuracy	±(0.9%+2d)	±(1.0%+2d)	±(0.9%+2d)
	Overload Protection: 600V rms	1000V	-	1000V
Continuity Beeper:	Indicator: 2KHz tone buzzer	-	-	-
	Threshold: <25Ω	-	<50Ω	-
Diode Test:	Ranges	0.4V~0.8V	0.4V~0.8V	0.4V~0.8V
	Resolution	100mV	100V	100mV
	Basic Accuracy	±(1.0%+3d)	±(1.5%+5d)	±(1.0%+3d)
	Open circuit voltage: 2V max	-	3V max	-

GENERAL:

Sampling Rate	2times/sec	1.5times/sec	2times/sec
Overload Indication: "OL" is displayed for "Ω" and "V" function, shows the real value for "A" function.	-	-	-
Low Battery Indication			
Auto Power Off: Approx. 20 minutes	-	10min	-
Operating Temperature: 0°C~50°C, ≤80% RH	-	-	-
Storage Temperature: - 20°C ~ 60°C	-	-	-
Temperature Coefficient: 0.2(Spec. Acc)/°C, <18°C or>28°C	-	-	-
Safety: IEC 61010 and designed to meet UL61010 specifications	CAT. III 600V, CAT. II 1000V	CAT. IV 600V, CAT. III 1000V	CAT. IV. 600V, CAT. III 1000V
Maximum Conductor Size	27mm dia. (500MCM)	16mm dia.	16mm dia.
Maximum Jaw Opening	35mm		
Power Requirement: Single 9V battery (NEDA 1604A or IEC 6LF22)			
IEC LR03, AM4 or AAA size 1.5V x2	-	-	-
Battery Life: In hours (No backlit, Alkaline battery)	300	250	300
Size: 56mm(W) x 188mm (L) x 28mm(H)	-	-	-
84mm(W) x 175mm (L) x 31mm(H)			
54mm(W) x 193mm (L) x 31mm(H)			
66mm(W) x 198mm (L) x 46mm(H)			
83mm(W) x 200mm (L) x 48mm(H)			
86.5mm(W) x 213mm (L) x 49.5mm(H)			
Weight: In grams (with battery)	225	280	280
Included with instrument: Test Leads, ZnC battery (installed) and manual	-	-	-
Delux Carrying Case	-	-	-

APPA A7D	APPA A9	APPA A7A	APPA A6N	APPA A6D/A6DR
600V	1.3V~600.0V	1.0V~750.0V	1.3V~750.0V	1.3V~750.0V
1V	0.1V	0.1V	0.1V	0.1V
40Hz~500Hz	50Hz~500Hz	50Hz~500Hz	50Hz~500Hz	50Hz~500Hz
±(1.5%+3d)	±(1.5%+3d)	±(1.5%+3d)	±(1.5%+3d)	±(0.9%+3d)
1MΩ//<100pF	4KΩ~200KΩ	4KΩ~375KΩ	4KΩ~375KΩ	4KΩ~375KΩ
-	-	750V	750V	750V
-	-	-	-	· /True RMS
600V	2.1V~600.0V -0.7V~600.0V	2.1V~1000.0V -0.5V~1000.0V	2.1V~1000.0V -0.7V~1000.0V	2.1V~1000.0V -0.7V~1000.0V
1V	1V	0.1V	0.1	0.1
±(1.0%+2d)	±(1.0%+2d)	±(1.0%+2d)	±(1.0%+2d)	±(0.3%+2d)
1MΩ//<100pF	4KΩ~200KΩ	4KΩ~375KΩ	4KΩ~375KΩ	4KΩ~375KΩ
-	-	-	-	-
200.0A	0.9A~400.0A	0.9A~200.0A	0.9A~600.0A	0.9A~600.0A
0.1A	0.1A	0.1A	0.1A	0.1A
45Hz~66Hz	50Hz~60Hz	50Hz~60Hz	50Hz~60Hz	50Hz~60Hz
±(3.0%+3d)	±(1.8%+3d)	±(2.5%+3d)	±(1.9%+5d)	±(1.5%+5d)
-	-	-	-	· /True RMS
-	-	-	-	0.9A~600.0A
-	-	-	-	0.1A
-	-	-	-	±(1.5%+5d)
2000Ω	10KΩ	10KΩ	10KΩ	10KΩ
1Ω	1Ω	1Ω	1Ω	1Ω
±(1.0%+2d)	±(2.0%+2d)	±(1.0%+2d)	±(2.0%+2d)	±(0.9%+2d)
-	-	1000VDC/750VAC	1000VDC/750VAC	1000VDC/750VAC
-	-	-	-	-
-	-	-	-	-
-	0.4V~0.8V	0.4V~0.8V	0.4V~0.8V	0.4V~0.8V
-	100mV	100mV	100mV	100mV
-	±(1.0%+3d)	±(1.0%+3d)	±(1.0%+3d)	±(0.9%+3d)
-	-	-	-	-

2.5times/sec	5times/sec	5times/sec	5times/sec	5times/sec
-	-	-	-	-
30min	30min	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
CAT. III 600V	CAT. III 600V	CAT. III 600V, CAT. II 1000V	CAT. III 600V, CAT. II 1000V	CAT. IV. 600V, CAT. III 1000V
16mm dia.	27mm dia. (500MCM)	16mm dia.	35mm dia. (750MCM)	35mm dia. (750MCM)
-	35mm	-	38mm	38mm
-	-	-	-	-
250	250	250	250	125
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
250	260	280	375	380
-	-	-	-	-
-	-	-	-	-

APPA®

APPA A1 & A0

Mini AC/DC Clamp Meter





NEW

APPA A1

- 6000 count large scale LCD display with backlit
- AC/DC current measuring capability up to 300Amps
- Automatically detect DCA/ACA with AC True RMS reading mode
- 10mA Resolution
- 1.5% basic DCA/ACA accuracy
- Inrush Current Measurement
- Smart Data Hold and Low Pass Filter
- DCA Zeroing
- Auto Power Off (20 min.)
- VoltSense™ feature (None contact voltage detecting)
- Battery door easy to replace battery
- Up to 22mm dia. Conductor size
- Shock proof from 4 feet drops
- CAT III 600V Safety Standard

APPA A1 / A0 Mini AC/DC Clamp Meter

FEATURES:	APPA A1	APPA A0
Main Display	6000 count	6000 count
Large scale display	•	•
Auto AC/DC detection	•	AC only
True RMS	•	•
Inrush Current measurement	•	•
Display Hold	Smart Data Hold	Smart Data Hold
Low Pass Filter	•	•
Backlight	•	•
Volt Sense™ (None Contact Voltage)	•	•
DCA Zeroing Key	•	N/A
Auto Power Off (Sleep Mode)	•	•
4 feet Drop Proof	•	•
Hand Guard Designed	•	•
Convenient Battery Door	•	•
Deluxe Carrying Pouch	Included	Included
Safety Standard	CAT III 600V	CAT III 600V



NEW

APPA A0

- 6000 count large scale LCD display with backlit
- AC current measuring capability up to 300Amps
- Automatically detect ACA with AC True RMS reading mode
- 10mA Resolution
- 2.0% basic ACA accuracy
- Inrush Current Measurement
- Smart Data Hold and Low Pass Filter
- Auto Power Off (20 min.)
- VoltSense™ feature (None contact voltage detecting)
- Battery door easy to replace battery
- Up to 22mm dia. Conductor size
- Shock proof from 4 feet drops
- CAT III 600V Safety Standard

SPECIFICATIONS:(All at 23°C ± 3°C, ≤ 80% R.H.)

ACA	Ranges	60.00A, 300.0A	60.00A, 300.0A
	Resolution	10mA	10mA
	Basic Accuracy	±(1.5%+5d) at 50Hz~100Hz ±(2.5%+5d) at 101Hz~400Hz	±(2.0%+5d) at 50Hz~60Hz
DCA	Ranges	60.00A, 300.0A	N/A
	Resolution	10mA	N/A
	Basic Accuracy	±(1.5%+5d)	N/A
Inrush Current	Ranges	300.0A	300.0A
	Resolution	0.1A	0.1A
Low Pass Filter	Ranges	60.00A, 300.0A	60.00A, 300.0A
	Resolution	10mA	10mA
	Basic Accuracy: 50Hz~60Hz	±(3.5%+5d)	±(3.5%+5d)

GENERAL:

Sampling Rate	2 times/sec	2 times/sec
Overload Indication	"OL"	"OL"
Low Battery Indication	☐	☐
Auto Power Off: Approx. 20 minutes	•	•
Operating Temperature: 0°C-50°C, ≤80% RH	•	•
Storage Temperature: -20°C ~ 60°C	•	•
Temperature Coefficient	0.2 (Spec. Acc) /°C, <18°C or >28°C	0.2 (Spec. Acc) /°C, <20°C or >26°C
Safety: IEC 61010-1 and designed to meet UL 61010-1 specifications	CAT III 600V	CAT III 600V
Maximum Conductor Size	22mm dia. (350MCM)	22mm dia. (350MCM)
Maximum Jaw Opening	24mm	24mm
Power Requirement: LR44 or A76 x 2 pcs button cell	•	•
Battery Life: In hours (Alkaline battery)	20	50
Size: 147mm(L) x 60mm(W) x 31mm(D)	•	•
Weight: In grams(with batteries)	140	140
Included with instrument: Button cells(installed), manual and carrying pouch	•	•

APPA A2, A3 & A3D/A3DR

Top of Low-Cost Clamp Meters





NEW SLIM DESIGN

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



INNOVATIVE ADVANCED FEATURES

Featuring a safer and smarter display hold offers you an extra protection of measuring (A3D, A3DR only).

NONE CONTACT VOLTAGE DETECTING

APPA A3D and A3DR featured with a VoltSense™ function to detect live cable and outlet without contact also find the cable alignment behind the wall as cable finder.



BATTERY EASY TO REPLACE

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





NEW
APPA A2

2000 count Large-scale LCD display
AC current measuring capability up to 400Amps
Data Hold and Max Hold to capture important readings
Battery door easy to replace battery
Up to 27mm dia. (500MCM) Conductor size
4 feet Drop Proof
Hand Guard & Stream Line Designed
CAT. III 600V safety standard
Carrying case included



NEW
APPA A3D/A3DR

4000 count Large-scale LCD display
AC/DC 400Amps capability with 0.01A resolution
AC/DC 600V capability
40KΩ Resistance capability
True RMS reading on AC mode (A3DR)
Auto ranging
Continuity beeper
Smart Data Hold
On touched DCA Zeroing
Battery door easy to replace battery
Up to 27mm dia. (500MCM) Conductor size
4 feet Drop Proof
Hand Guard & Stream Line Designed
CAT. III 600V safety standard
Carrying case included



NEW
APPA A3

2000 count Large-scale LCD display
AC current measuring capability up to 400Amps
AC/DC 600V capability
20MΩ Resistance capability
Auto ranging
Continuity beeper
Data Hold
Battery door easy to replace battery
Up to 27mm dia. (500MCM) Conductor size
4 feet Drop Proof
Hand Guard & Stream Line Designed
CAT. III 600V safety standard
Carrying case included

APPA A2 , A3 & A3D / A3DR LOW COST CLAMP MULTIMETERS

FEATURES:

	APPA A2	APPA A3	APPA A3D/A3DR
Digital display	2000 count	2000 count	4000 count
Data hold	•	•	Smart Data Hold
Max hold	NA	•	NA
VoltSense	NA	NA	•
AC Amps Capability	•	•	•
DC Amps Capability	NA	NA	•
DCA Zeroing	NA	NA	•
AC Volts Capability	NA	•	•
DC Volts Capability	NA	•	•
Ohm Capability	NA	•	•
Audible continuity and Diode test	•	•	•
Automatic power shut off	•	•	•
Shock proof from 4 feet drops	•	•	•
Standard full-sleeve safety test leads	•	•	•
Deluxe carrying case	•	•	•

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

ACV:	Resolution	200.0V, 600V	400.0V, 600V
Ranges		100mV	100mV
Basic Accuracy:	±(1.5%+5d) at 50Hz~500Hz	•	±(0.9%+5d) at 50Hz~500Hz
Input Impedance:	1MΩ/ <100pF	•	•
Overload Protection:	600V rms	•	•
Conversion Type:	Average sensing RMS indicating	•	True RMS (A3DR only)
DCV:	Ranges	200.0V, 600V	400.0V, 600V
Resolution		100mV	100mV
Basic Accuracy:	±(1.0%+2d)	•	±(0.7%+5d)
Input Impedance:	≥ 1MΩ	•	•
Overload Protection:	600V rms	•	•
ACA:	Ranges	200.0A, 400A	40.00A, 400.0A
Resolution		0.1A	0.01A
Basic Accuracy:	±(1.9%+5d) at 50Hz~60Hz	•	±(1.5%+5d) at 50Hz~60Hz
Conversion Type:	Average sensing RMS indicating	•	True RMS (A3DR only)
DCA:	Ranges		40.00A, 400.0A
Resolution		NA	0.01A
Basic Accuracy:	±(1.5%+5d)		•
OHM:	Ranges	200.0Ω~20MΩ	400.0Ω~40.00KΩ
Resolution		0.1Ω	0.1Ω
Accuracy:	±(0.7%+2d)	•	±(0.9%+2d)
Overload Protection:	600V rms	•	•
Continuity Beeper:	<50Ω, 2KHz tone buzzer	•	•
Diode Test:	Open circuit voltage: -3.1V max	•	•
Overload Protection:	600V rms	•	•
Hz:	Ranges		40.00Hz~40.00KHz
Resolution			0.01Hz
Accuracy:	±(0.7%+2d)		±(0.3%+5d)
Sensitivity:		NA	>4 p
Max. Sensitivity:	600A		•
Sense Source:	ACA		•
Overload Protection:	600V rms		•

GENERAL:

	1.5times/sec	1.5times/sec	3times/sec
Sampling Rate			
Overload Indication	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"
Low Battery Indication			
Auto Power Off: Approx. 10 minutes	•	•	20 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	•	•	0.2(Spec. Acc)/°C, <18°C or>28°C
Safety: IEC 61010 and designed to meet UL61010 specifications	CAT. III 600V	CAT. III 600V	CAT. III 600V
Maximum Conductor Size	27mm dia. (500MCM)	27mm dia. (500MCM)	27mm dia. (500MCM)
Maximum Jaw Opening	31mm	31mm	31mm
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)	•	•	•
IEC LR03, AM4 or AAA size 1.5V x 2			
Battery Life: In hours (Alkaline battery)	200	200	200
Size: 56mm(W) x 180mm(L) x 32mm(H)	•	•	•
56mm(W) x 188mm(L) x 28mm(H)	•	•	•
Weight: In grams (with holster)	250	225	225
Included with instrument: Test Leads, ZnC battery (installed) manual and carrying case	•	•	•

APPA®

APPA A10 Series

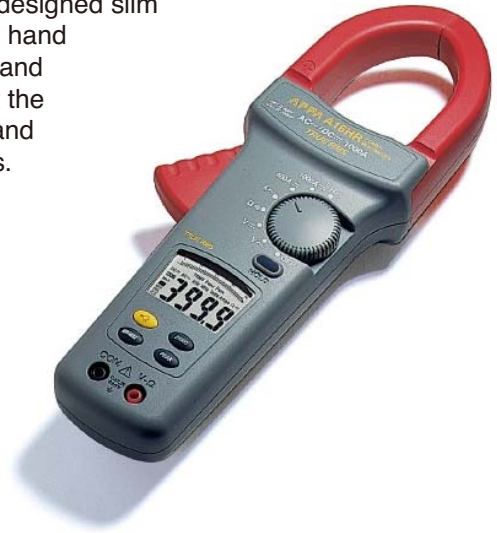
All New Industrial Clamp Multimeter





NEW SLIM DESIGN

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



DAY & NIGHT

APPA A10 series clamp multimeters all have a LED backlit display that turns ON/OFF at the touch of a button, also automatically goes off to extend battery life.



EXTRA TEMPERATURE FEATURE

Special designed temperature test facility for daily industrial temperature measurement application. (A10N & A18plus only)



ADVANCED POWER FEATURES MADE EASY

APPA A18plus provides advanced Power features and Total Harmonic Distortion along with easy-to-use interface, which enables fully power measurement application with excellent performance.



FULL SIZE JAW

True 1000A conductor size up to 51mm diameter (2000MCM) with excellent residual magnetism (A16H/A16HR).



BATTERY EASY TO REPLACE

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



APPA A11
APPA A11R (True-RMS reading)

- 4000 count digital display
- Backlit, Large scale display
- Analog Bar graph
- True RMS reading on AC mode (A11R)
- AC 600 Amps capability
- AC 600 Volts capability
- DC 600 Volts capability
- 400 Ohms Resistance capability
- Continuity Beeper
- Display Hold
- Peak Hold (10ms)
- Min Max Function
- Frequency Counter
- Auto Power Off
- Up to 34mm dia. (750MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- CAT.III 600V Safety Standard



APPA A12
APPA A12R (True-RMS reading)

- 4000 count digital display
- Backlit, Large scale display
- Analog Bar graph
- True RMS reading on AC mode (A12R)
- AC 600 Amps capability
- DC 600 Amps capability
- AC 600 Volts capability
- DC 600 Volts capability
- 400 Ohms Resistance capability
- Continuity Beeper
- Display Hold
- Peak Hold (10ms)
- DCA Zeroing Key
- Min Max Function
- Frequency Counter
- Auto Power Off
- Up to 35mm dia. (750MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- CAT.III 600V/CAT.II 1000V Safety Standard



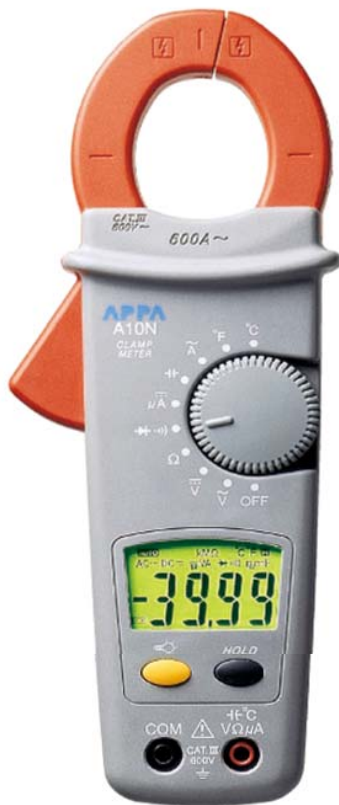
APPA A15
APPA A15R (True-RMS reading)

- 4000 Count digital display
- Backlit, Large scale display
- Analog Bar graph
- True RMS reading on AC mode (A15R)
- AC 1000 Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 400 Ohms Resistance capability
- Continuity Beeper
- Display Hold
- Peak Hold (10ms)
- Min Max Function
- Frequency Counter
- Auto Power Off
- Up to 51mm dia. (2000MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- CAT.IV600V/ CAT.III 1000V Safety Standard



APPA A16
APPA A16R (True-RMS Reading)
APPA A16H
APPA A16HR (True-RMS Reading)

- 4000 Count digital display
- Backlit, Large scale display
- Analog Bargraph
- True RMS reading on AC mode (A16R, A16HR)
- Silicon-Steel alloy jaw mechanism (A16, A16R)
- Nickel-Steel alloy jaw mechanism (A16H, A16HR)
- Excellent Residual Magnetism Performance (A16H, A16HR)
- AC 1000 Amps capability
- DC 1000 Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 400 Ohms Resistance capability
- Continuity Beeper
- Display Hold
- Peak Hold (10ms)
- DCA Zeroing Key
- Min Max Function
- Frequency Counter
- Auto Power Off
- Up to 51mm dia. (2000MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- CAT.IV600V/ CAT.III 1000V Safety Standard



APPA A10N

- 4000 Count digital display
- Backlit, Large scale display
- AC 600 Amps capability
- DC 4000 μ Amps capability
- AC 750 Volts capability
- DC 1000 Volts capability
- 40M Ohms Resistance capability
- Continuity Beeper
- Diode Test
- Display Hold
- Capacitance Measurement Up to 4mF
- $^{\circ}$ C / $^{\circ}$ F Temperature Test
- Auto Power Off
- Up to 32mm dia. (750MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- CAT. III 600V/CAT.II 1000V Safety Standard



APPA A18plus (True-RMS reading)

- 6000 Count digital display
- Backlit, Large scale display
- Power and Power Factor measurement
- Total Harmonic Distortion measurement
- Phase Rotation indication
- AC+ DC True RMS reading
- Auto AC/DC detection
- AC/DC 600A capability
- AC1000V, DC1000V capability
- Power 600K Watt capability
- 20K Ω Ohms Resistance capability
- Continuity Beeper
- Display Hold
- Peak Hold
- Inrush current measurement
- DCA Auto-Zeroing Key
- Min Max Function
- Frequency Counter
- Temperature measurement
- Auto Power Off
- Up to 35mm dia. (750MCM) Conductor
- 4 feet Drop Proof
- Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- CAT. III 600V/CAT.II 1000V Safety Standard

APPA A10 SERIES CLAMP MULTIMETERS
FEATURES:

	APPA A10N	APPA A11/A11R
Digital display	4000 count	4000 count
Analog bar graph	NA	43 segments
True RMS measuring	NA	A11R
Auto AC/DC detection	NA	NA
Data hold	.	.
Min Max function	NA	.
Peak hold	NA	.
Inrush Current measurement	NA	NA
DCA zeroing	NA	NA
Frequency counter	NA	.
Power and Power Factor measurement	NA	NA
Total Harmonic Distortion	NA	NA
Phase Rotation	NA	NA
Temperature measurement	.	NA
Capacitance	.	NA
Audible continuity and Diode test	.	.
Backlight	.	.
Automatic power shut off	.	.
Shock proof from 4 feet drops	.	.
Standard full-sleeve safety test leads	.	.
Deluxe carrying case	.	.

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

	APPA A10N	APPA A11/A11R
ACV		
Ranges	4V~750V	400.0V, 600V
Resolution	1mV	100mV
Basic Accuracy: ±(1.0%+5d) at 50Hz~500Hz	±(1.5%+5d)	.
Input Impedance: 1MΩ/<100pF	10MΩ/<100pF	.
Overload Protection: 600V rms	.	.
750V rms	.	.
Conversion Type: Average sensing RMS indicating	Average	A11R True-RMS
DCV		
Ranges	4V~1000V	400.0V, 600V
Resolution	1mV	100mV
Basic Accuracy: ±(0.7%+2d)	±(0.9%+2d)	.
Input Impedance: ≥1MΩ	10MΩ	.
Overload Protection: 600V DC or AC rms	.	.
1000V DC or AC Peak	.	.
ACA		
Ranges	400.0A, 600A	400.0A, 600A
Resolution	0.1A	0.1A
Basic Accuracy: ±1.9%+5d) at 50Hz~60Hz	±(1.9%+1A)	.
Conversion Type: Average sensing RMS indicating	Average	A11R True-RMS
DCA		
Ranges		
Resolution		
Basic Accuracy: ±(1.5%+5d)	NA	NA
±(1.9%+3d)		
±(1.0%+3d)		
Watt		
Ranges		
Resolution		
Basic Accuracy	NA	NA
P.F.		
Ranges		
Resolution		
Basic Accuracy	NA	NA
T.H.D.		
Ranges		
Resolution		
Basic Accuracy	NA	NA
OHM		
Ranges	400Ω~40MΩ	400.0Ω
Resolution	0.1Ω	0.1Ω
Accuracy:±(1.0%+3d)	±(1.0%+2d)	.
Overload Protection: 600V rms	.	.
Continuity Beeper	<30Ω, 2KHz tone buzzer	<100Ω
Diode Test	Open circuit voltage: 3V max	.
Capacitance		
Ranges	4nF~4mF	
Resolution	1pF	NA
Basic Accuracy	±(2.0%+8d)	
Overload Protection: 600V rms	.	
Frequency Counter		
Ranges		20Hz~400Hz
Resolution		1Hz
Accuracy: ±(0.1%+2d) at 5V rms max		.
Sensitivity: 3A rms for ACA (A~)(≥400Hz Unspecified)	NA	.
3V rms to 110V rms for ACV (V~)		.
Overload Protection: AC/DC 600A		.
AC/DC 1000A		.
Temperature		
Ranges	-40°C~400°C, -40°F~1000°F	
Resolution	0.1°C/1°F	NA
Accuracy		
Overload Protection: 600V rms	±(1%+3°C)	.

GENERAL:

	APPA A10N	APPA A11/A11R
Sampling Rate	1.5times/sec	1.5times/sec
Overload Indication	"OL" or "OL"	"OL" or "OL"
Low Battery Indication	⊕	⊕
Auto Power Off: Approx. 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. III 600V CAT. II 1000V	CAT. III 600V
Maximum Conductor Size	32mm dia. (750MCM)	34mm dia. (750MCM)
Maximum Jaw Opening	35mm	37mm
Maximum Busbar Size	40x15mm	40x15mm
Power Requirement: Single 9V battery (NEDA 1604 or IEC 6F22)	.	A11R
IEC LR03, AM4 or AAA size 1.5V x 2"		A11
Battery Life: In hours (Alkaline battery)	400	300
Size: 84mm(W) x 212mm(L) x 40mm(H)	.	.
76mm(W) x 220mm(L) x 50mm(H)		.
78mm(W) x 235mm(L) x 51mm(H)		.
90mm(W) x 275mm(L) x 51mm(H)		.
Weight: In grams	390	360
Included with instrument: Test Leads, ZnC battery (installed) manual and carrying case	*(also including TA-300 and 50BK)	.

APPA A12/A12R	APPA A15/A15R	APPA A16/A16R	APPA A16H/A16HR	APPA A18plus
4000 count	4000 count	4000 count	4000 count	6000 count
43 segments	43 segments	43 segments	43 segments	NA
A12R	A15R	A16R	A16HR	AC+DC
NA	NA	NA	NA	.
.
.
.
NA	NA	NA	NA	.
.	NA	.	.	.
.
NA	NA	NA	NA	.
NA	NA	NA	NA	.
NA	NA	NA	NA	.
NA	NA	NA	NA	.
NA	NA	NA	NA	NA
.
.
.
.
.
.
.
400.0V, 600V	400.0V, 750V	400.0V, 750V	400.0V, 750V	60V, 600V, 1000V
100mV	100mV	100mV	100mV	10mV
.
.
.
A12R True-RMS	A15R True-RMS	A16R True-RMS	A16HR True-RMS	AC+DC True-RMS
400.0V, 600V	400.0V, 1000V	400.0V, 1000V	400.0V, 1000V	60V, 600V, 1000V
100mV	100mV	100mV	100mV	10mV
.	.	.	.	±(1.0%+5d)
.
.
400.0A, 600A	400.0A, 1000A	400.0A, 1000A	400.0A, 1000A	600.0A
0.1A	0.1A	0.1A	0.1A	0.1A
.
A12R True-RMS	A15R True-RMS	A16R True-RMS	A16HR True-RMS	AC+DC True-RMS
400.0A, 600A		400.0A, 1000A	400.0A, 1000A	600A
0.1A		0.1A	0.1A	0.1A
.	NA	.	.	.
.
NA	NA	NA	NA	4KW-600KW
.	.	.	.	1W
.	.	.	.	ACA+ACV accuracy
NA	NA	NA	NA	-1.00-1.00
.	.	.	.	0.01
NA	NA	NA	NA	±3°
.	.	.	.	0.1%-100.0%
400.0Ω	400.0Ω	400.0Ω	400.0Ω	0.10%
0.1Ω	0.1Ω	0.1Ω	0.1Ω	±(3.0%+10d)
.	.	.	.	20KΩ
.	.	.	.	0.1Ω
.	.	.	.	±(1.0%+5d)
.
NA	NA	NA	NA	NA
20Hz-400Hz	20Hz-400Hz	20Hz-400Hz	20Hz-400Hz	20Hz-4KHz
1Hz	1Hz	1Hz	1Hz	0.1Hz
.	.	.	.	±(0.1%+5d)
.	.	.	.	5A for ACA
.	.	.	.	5V for ACV
.
NA	NA	NA	NA	-50°C-1000°C
.	.	.	.	-122°F-1832°F
.	.	.	.	0.1°C/1°F
.	.	.	.	±(1%+3°C)
.
1.5times/sec	1.5times/sec	1.5times/sec	1.5times/sec	3times/sec
"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"	"OL" or "-OL"
±	±	±	±	±
.
.
.
CAT. III 600V	CAT. IV 600V	CAT. IV 600V	CAT. IV 600V	CAT. III 600V
CAT. II 1000V	CAT. III 1000V	CAT. III 1000V	CAT. III 1000V	CAT. II 1000V
35mm dia. (750MCM)	51mm dia. (2000MCM)	51mm dia. (2000MCM)	51mm dia. (2000MCM)	35mm dia. (750MCM)
45mm	53mm	53mm	53mm	45mm
40x15mm	24x60mm	24x60mm	24x60mm	40x15mm
.	A15R	.	.	.
.	A15	.	.	.
300	300	300	300	50
.
.
380	420	420	420	380
.
.	.	.	.	*(also including TA-300 and 50BK)

APPA A17R Leakage Current Clamp Meter

Faster, Smarter and Precise





NEW

APPA A17

APPA A17R (True-RMS reading)

- 6,000 Count digital large scale display
- Analog Bar graph
- AC 100.0 Amps capability
- AC 0.001mA Resolution
- True RMS reading (A17R only)**
- Auto Ranging
- Auto Hold
- Data Hold
- Peak Hold
- Comparator
- Low Pass Filter with high stability
- Auto Power Off (Disable)
- Up to 40mm dia. (750MCM) Conductor Size
- 4 feet Drop Proof
- Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- CAT. III 300V Safety Standard

Specifications:(All at 23°C ± 5°C < 80%RH)

AC A: Ranges: 6.000mA/60.00mA/600mA/6A/60A/100A

Basic Accuracy: ± (1.0%+3d)

Resolution: 0.001mA

General Specifications: Sampling Rate: 5 times/sec

Overloading Indication: "OL"

Low Battery Indication: 

Auto Power Off: Approx. 20 minutes

Operating Temperature: 0°C~50°C

Storage Temperature: -20°C~60°C

Temperature Coefficient: 0.2 x (Spec. Accuracy)/ °C, < 18°C, > 28°C

Maximum Conductor Size: Up to 40 mm dia. (750MCM) Conductor Size

Maximum Jaw Opening: Up to 43mm

Safety: IEC 61010 CAT III 300V and designed to meet UL61010 specifications

Battery Life: 60 hours (ALKALINE)

Power Requirement: 1.5V x 2pcs AAA Size batteries (IEC LR03)

Dimensions: 78mm(W) x 203mm(L) x 42mm(D)

Weight: Approx. 300g

Accessories: Carrying Case, Alkaline battery (installed) and manual.

APPA iMeter 3 and iMeter 5

Simple, Smart and Easy to Use





APPA iMeter 3

- 5000 count large scale digital display
- Auto ranging and Manual Selection
- DCV, ACV, OHM, Continuity and Diode Test
- 0.6% basic DCV accuracy
- Frequency Counter
- Capacitance Measurement
- Data Hold
- Relative Mode on Capacitance
- Auto Power Off
- Shock proof from 4 feet drops
- Compact Design on Small Size
- Integral Safety test leads
- Deluxe Carrying Wallet Included
- CAT. II 600V/CAT. III 300V Safety standard



APPA iMeter 5

- 4000 count with large scale display
- 0.6% basic DCV accuracy
- Auto ranging and Manual Selection
- Auto AC/DC Voltage selection
- Auto Resistance, Continuity, Capacitance and Diode selection
- Auto AC/DC 400.0uA and 4000uA ranges
- Frequency Counter
- Smart Data Hold
- VoltSense™ function
- Mains Voltage Indicator
- Auto Power Off
- Shock proof from 4 feet drops
- Compact Design on Small Size
- Integral Safety test leads
- Deluxe Carrying Wallet Included
- CAT. II 600V/CAT. III 300V Safety standard

APPA iMeter 3 and iMeter 5 CARD TYPE MULTIMETERS

FEATURES:	APPA iMeter 3	APPA iMeter 5
Digital display	5000 count	4000 count
Range selection	Auto/Manual	Auto/Manual
Auto AC/DC Voltage selection	N/A	•
Auto Resistance, Continuity, Capacitance and Diode selection	N/A	•
Auto AC/DC 400.0uA, 4000uA ranges	N/A	•
Smart Data hold	N/A	•
VoltSense™	N/A	•
Frequency counter	•	•
Capacitance measurement	•	•
Automatic power shut off	•	•
Shock proof from 4 feet drops	•	•
Integral Safety Test Leads	•	•
Deluxe Carrying Wallet included	•	•

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

		400.0mV ~ 600V	400.0mV ~ 600V
DCV	Ranges	400.0mV ~ 600V	400.0mV ~ 600V
	Resolution	0.1mV	0.1mV
	Basic Accuracy: ±(0.6%+2d)	•	•
	Input Impedance: 10MΩ/ <100pF	•	•
	Overload Protection: 600VDC	•	•
ACV	Ranges	400.0mV ~ 600V	400.0mV ~ 600V
	Resolution	0.1mV	0.1mV
	Basic Accuracy: ±(0.9%+5d) at 50Hz ~ 500Hz	•	•
	Input Impedance: 10MΩ/ <100pF	•	•
	Overload Protection: 600V rms	•	•
	Conversion Type: Average sensing RMS indicating	•	•
DCA	Ranges	N/A	400.0uA, 4000uA
	Resolution	N/A	0.1uA
	Basic Accuracy	N/A	±(0.9%+5d)
	Overload Protection: 600V rms	N/A	•
ACA	Ranges	N/A	400.0uA, 4000uA
	Resolution	N/A	0.1uA
	Basic Accuracy: At 50Hz ~ 500Hz	N/A	±(1.5%+5d)
	Input Impedance: Approx. 3KΩ	N/A	•
	Conversion Type: Average sensing RMS indicating	N/A	•
OHM	Ranges	400.0Ω ~ 40.00MΩ	400.0Ω ~ 40.00MΩ
	Resolution	0.1Ω	0.1Ω
	Basic Accuracy: ±(0.9%+2d)	•	•
	Overload Protection: 600V rms	•	•
Continuity Beeper	Threshold	<50Ω	<50Ω
	Indicator	2KHz tone buzzer	2.7KHz tone buzzer
Diode Test	Open circuit voltage: 1.5V	•	•
	Frequency Counter	5Hz ~ 5MHz	40Hz ~ 4MHz
	Resolution	0.001Hz	0.01Hz
	Basic Accuracy: ±(0.3%+5d)	•	•
	Overload Protection: 600V rms	•	•
	Duty Cycle	0.1%~99.9%	0.1%~99.9%
	Resolution	0.1%	0.1%
	Basic Accuracy	±(0.5%+3d)	±(0.5%+10d)
	Overload Protection: 600V rms	•	•
	Capacitance	50nF~100uF	40nF~400uF
	Resolution	0.01nF	0.01nF
	Basic Accuracy: ±(2.9%+5d)	•	•
	Overload Protection: 600V rms	•	•

GENERAL:

	3times/sec	3times/sec
Sampling Rate	3times/sec	3times/sec
Overload Indication: "OL" or "-OL"	•	•
Low Battery Indication	⊕ ⊖	⊕ ⊖
Auto Power Off	Approx. 30 min.	Approx. 20 min.
Operating Temperature: 0°C~50°C, ≅80%RH	•	•
Storage Temperature: -20°C~60°C	•	•
Temperature Coefficient: 0.2(Spec.Acc)/°C, <18°C or >28°C	•	•
Safety: IEC 61010-1 and designed to meet UL61010-1 specifications	CAT. II 600V, CAT. III 300V	CAT. II 600V, CAT. III 300V
Power Requirement: LR44 Button size 1.5V x 2 battery	•	•
Battery Life: In hours (Button size battery)	100	50
Size: 58mm(W) x 112mm (L) x 12mm(H)	•	•
Weight: In grams	115	115
Accessories: Deluxe carrying wallet and Integral safety test leads, Button size battery (installed) and manual	•	•



APPA IT-1 InfraRed Thermometer

InfraRed Thermo & Voltage Detector





ACTUAL SIZE

NEW
APPA IT-1

- Large Scale LCD display InfraRed Thermometer
- Distance to Spot Ratio 8:1
- Single point laser sighting
- Holds temperature reading for 10 seconds
- Easy °C / °F unit switching
- Best accuracy in its class $\pm 1^{\circ}\text{C}$ of reading
- Integrated non-contact AC voltage detection with LCD indication
- Ultra bright white LED Torch
- Single AAA size battery operation
- Low battery indication in segments
- Pocket Clip designed for easy carrying
- Universal designed accessories (Option) to attach on any Clamp meters or DMMs

Specifications (All at $23^{\circ}\text{C} \pm 2^{\circ}\text{C} < 80\%\text{RH}$)

Infrared °C / °F: Range: $-30^{\circ}\text{C} \sim 500^{\circ}\text{C}$ / $-22^{\circ}\text{F} \sim 932^{\circ}\text{F}$

Best Accuracy: $-30^{\circ}\text{C} \sim 0^{\circ}\text{C}$ / $-22^{\circ}\text{F} \sim 32^{\circ}\text{F}$: $\pm 3^{\circ}\text{C}/\pm 6^{\circ}\text{F}$

$1^{\circ}\text{C} \sim 10^{\circ}\text{C}$ / $34^{\circ}\text{F} \sim 50^{\circ}\text{F}$: $\pm 1.5^{\circ}\text{C}/\pm 3^{\circ}\text{F}$

$11^{\circ}\text{C} \sim 40^{\circ}\text{C}$ / $52^{\circ}\text{F} \sim 104^{\circ}\text{F}$: $\pm 1^{\circ}\text{C}/\pm 2^{\circ}\text{F}$

$41^{\circ}\text{C} \sim 500^{\circ}\text{C}$ / $106^{\circ}\text{F} \sim 932^{\circ}\text{F}$: $\pm 1.5^{\circ}\text{C}/\pm 3^{\circ}\text{F}$ or $\pm 1.5\%$ of reading, whichever is greater

Non-Contact Voltage Detection: 60VAC ~ 600VAC

Display: $0.2^{\circ}\text{C}/0.5^{\circ}\text{F}$

Response Time: 0.5 sec.

Spectral Response: $6.5\mu\text{m} \sim 18\mu\text{m}$

Emissivity: $E=0.95$

D:S Ratio: 8:1 (calculated at 80% energy)

Repeatability: $\pm 1^{\circ}\text{C}$ or $\pm 0.5\%$ of reading, whichever is greater

Display Hold: 10 sec.

Operating Temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Storage Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (without battery)

Battery Life: 150 hours

Power Requirement: IEC LR03, AM4 or AAA size 1.5V x 1pc

Dimensions: 0.8in(W) x 3.95in(L) x 1.15in(D) / 20mm(W) x 100mm(L) x 29mm(D)

Weight: 40g

ALL NEW Pocket-Size APPA M Series Multimeter



DAY & NIGHT

APPA M3 has Super bright LED back light with 6,000 count digital display gives you fulltime visual experience, also automatically goes off to save battery life(can be disabled).



POCKET SIZE SLIM DESIGN

Ergonomically designed slim shape with one hand operated knob and buttons. Comfort compact shape with extra large LCD just fits the palm of your hand and your needs.



BATTERY EASY TO REPLACE

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



NON CONTACT VOLTAGE DETECTING

APPA M series have VoltSeek™ feature to detect live cable and outlet without contact also find the cable alignment behind the wall as cable finder.





NEW
APPA M1

6,000 count digital large display
 Auto Ranging
True RMS on ACV
Peak Hold for capture peak readings
 0.5% DCV accuracy
 Smart Hold
 Relative Function
 Auto Power Off (Can be disabled)
 Capacitance measurements
VoltSeek™ for non-contact voltage detection
ContiVision™ for visible continuity beeper
 Frequency Counter
 Diode Test
 Battery Capacity indication in segments
 Pocket size Stream Line Design
 Optional Holster with Probe Holder, Tilt Stand and Magnetic sticker
EasyStick™ holster with built in magnetic sticker
CAT III 600V standard



NEW
APPA M3

6,000 count digital large display
 Large **white LED backlight** display
 Auto Ranging
True RMS on ACV
True RMS on ACA
Peak Hold for capture peak readings
 0.5% DCV accuracy
 10Amp ACA/DCA
 Smart Hold
 Relative Function
 Auto Power Off (Can be disabled)
 Back lit
 Auto Backlight off (Can be disabled)
 Capacitance measurements
VoltSeek™ for non-contact voltage detection
ContiVision™ for visible continuity beeper
 Frequency Counter
 Diode Test
 DC μ A Function
 High Energy Fuse
°C/°F Temperature Function
Temperature Probe included
 Battery Capacity indication in segments
 Pocket size Stream Line Design
 Optional Holster with Probe Holder, Tilt Stand and Magnetic sticker
EasyStick™ holster with built in magnetic sticker
CAT III 600V standard



NEW
APPA M2

6,000 count digital large display
 Auto Ranging
True RMS on ACV
True RMS on ACA
Peak Hold for capture peak readings
 0.5% DCV accuracy
 10Amp ACA/DCA
 Smart Hold
 Relative Function
 Auto Power Off (Can be disabled)
 Capacitance measurements
VoltSeek™ for non-contact voltage detection
ContiVision™ for visible continuity beeper
 Frequency Counter
 Diode Test
 DC μ A Function
 High Energy Fuse
 Battery Capacity indication in segments
 Pocket size Stream Line Design
 Optional Holster with Probe Holder, Tilt Stand and Magnetic sticker
EasyStick™ holster with built in magnetic sticker
CAT III 600V standard

APPA M Series Multimeter

FEATURES:	APPA M1	APPA M2	APPA M3
Main Display	6000 count	6000 count	6000 count
White LED Backlight	N/A	N/A	.
Autoranging	.	.	.
True RMS on ACV	.	.	.
Smart Data Hold	.	.	.
Auto Backlight off(can be disabled)	N/A	N/A	20 min.
10 Amp ACA/DCA Measurement	N/A	.	.
Resistance Measurement	.	.	.
DC Micro Ampere Measurement	N/A	.	.
Capacitance Measurement and Diode Test	.	.	.
Frequency Measurement	.	.	.
Temperature Measurement	N/A	N/A	.
ContiVision™ visible continuity beeper	.	.	.
VoltSeek™ non contact voltage detection	.	.	.
Peak Hold	.	.	.
Relative Function	.	.	.
High Energy Fuse	N/A	.	.
Shock proof from 4 feet drops	.	.	.
Pocket size Stream line Design	.	.	.
EasyStick™ holster with built in magnetic sticker	Option	Option	Option
Holster with Probe Holder, Tilt Stand and Magnetic sticker	Option	Option	Option

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

DCV:	Ranges	6,000V, 60,00V, 600,0V	6,000V, 60,00V, 600,0V	6,000V, 60,00V, 600,0V
	Resolution	1mV	1mV	1mV
	Basic Accuracy	±(0.5%+3d)	±(0.5%+3d)	±(0.5%+3d)
	Input Impedance: 10MΩ	.	.	.
	Overload Protection: 600V rms	.	.	.
ACV:	Ranges	600.0mV, 6,000V, 60,00V, 600,0V	600.0mV, 6,000V, 60,00V, 600,0V	600.0mV, 6,000V, 60,00V, 600,0V
	Resolution	0.1mV	0.1mV	0.1mV
	Basic Accuracy: at 45Hz~500Hz	±(1.0%+3d)	±(1.0%+3d)	±(1.0%+3d)
	Input Impedance: 10MΩ//<100pF	.	.	.
	Overload Protection: 600V rms	.	.	.
DCmV:	Ranges	600.0mV	600.0mV	600.0mV
	Resolution	0.1mV	0.1mV	0.1mV
	Basic Accuracy: at 45Hz~500Hz	±(0.5%+5d)	±(0.5%+5d)	±(0.5%+5d)
	Input Impedance: <10MΩ	.	.	.
	Overload Protection: 600V rms	.	.	.
DCμA:	Ranges	.	400.0μA, 4000μA	400.0μA, 4000μA
	Resolution	.	0.1μA	0.1μA
	Basic Accuracy	.	±(0.9%+5d)	±(0.9%+5d)
	Overload Protection: 600V rms	.	.	.
DCA:	Ranges	.	6,000A, 10,00A	6,000A, 10,00A
	Resolution	.	1mA	1mA
	Basic Accuracy	.	±(1.5%+3d)	±(1.5%+3d)
	Overload Protection: 10A	.	.	.
ACA:	Ranges	.	6,000A, 10,00A	6,000A, 10,00A
	Resolution	.	1mA	1mA
	Basic Accuracy: at 45Hz~500Hz	.	±(1.5%+3d)	±(1.5%+3d)
	Overload Protection: 10A	.	.	.
OHM:	Ranges	600.0Ω~40,00MΩ	600.0Ω~40,00MΩ	600.0Ω~40,00MΩ
	Resolution	0.1Ω	0.1Ω	0.1Ω
	Basic Accuracy: 600.0Ω, 6,000KΩ, 60,00KΩ	±(0.5%+2d)	±(0.5%+2d)	±(0.5%+2d)
	600,0KΩ, 6,000MΩ	±(1.0%+5d)	±(1.0%+5d)	±(1.0%+5d)
	40,00MΩ	±(1.0%+5d)	±(1.0%+5d)	±(1.0%+5d)
	Overload Protection: 600V rms	.	.	.
Continuity Beeper:	Ranges	<30Ω, 2.7KHz tone buzzer	<30Ω, 2.7KHz tone buzzer	<30Ω, 2.7KHz tone buzzer
Diode Test:	Ranges	1,500V	1,500V	1,500V
	Resolution	0,001V	0,001V	0,001V
	Basic Accuracy:	±(1.0%+3d)	±(1.0%+3d)	±(1.0%+3d)
	Open circuit voltage	1.8V max	1.8V max	1.8V max
	Overload Protection: 600V rms	.	.	.
Frequency Counter:	Ranges	100.00Hz~50,00KHz	100.00Hz~50,00KHz	100.00Hz~50,00KHz
	Resolution	0.01Hz	0.01Hz	0.01Hz
	Basic Accuracy:	±(0.1%+2d)	±(0.1%+2d)	±(0.1%+2d)
	Sensitivity: >4V, >20V, >0.6A	.	.	.
	Overload Protection: 600V rms	.	.	.
Capacitance:	Ranges	50.00nF~1000μF	50.00nF~1000μF	50.00nF~1000μF
	Resolution	0.01nF	0.01nF	0.01nF
	Basic Accuracy	±(2.0%+5d)	±(2.0%+5d)	±(2.0%+5d)
	Overload Protection: 600V rms	.	.	.
Temperature:	Ranges	.	.	-40°C~400°C -40°F~752°F
	Resolution	.	.	0.1°C 0.1°F
	Basic Accuracy	.	.	±(1%+20d) ±(1%+36d)
	Overload Protection: 600V rms	.	.	.

GENERAL:

Sampling Rate: 3times/sec	.	.	.
Overload Indication: "OL" or "-OL"	.	.	.
Low Battery Indication	□	□	□
Auto Power Off: Approx. 20 minutes	.	.	.
Operating Temperature: 0°C~50°C, ≤ 80% RH	.	.	.
Storage Temperature: - 20°C ~ 60°C	.	.	.
Temperature Coefficient: 0.1(Spec, Acc)°C, <18°C or>28°C	.	.	.
Safety: IEC 61010 and designed to meet UL61010 specifications	CAT III 600V	CAT III 600V	CAT III 600V
Power Requirement: IEC LR03, AM4 or AAA size 1.5V x2	.	.	.
Battery Life: In hours (No backlit, Alkaline battery)	360	360	360
Size: 68mm(W) x 138mm (L) x 30mm(H)	.	.	.
Weight: In grams (with battery)	200	200	200
Included with instrument: Test Leads, ZnC battery (installed) and manual	.	.	(also including Temperature Probe)

APPA®

APPA MA3/MA5

All New Design Mini Current Clamp-on Meter





NEW

APPA MA3

- 6000 Count digital display
- Large white LED backlight display
- Autoranging
- 1mA High Precise resolution
- DC 0.1mV High Precise resolution
- True RMS reading on ACA/ACV
- VoltSeek™ for non-contact voltage detection
- Up to 3000A and Direct Ampere Reading with Flex transducer(Optional)
- Resistance & Diode Test
- ContiVision™ for visible continuity beeper
- Frequency Counter up to 50kHz
- High Frequency Rejection(Low Pass Filter)
- Zeroing Key
- Smart Data Hold
- Min Max Hold
- Auto Power Off(Can be disabled)
- Up to 20mm dia. Conductor
- Torch lightening on trigger push
- CAT II 1000V, CAT III 600V, CAT IV 300V Standard



NEW

APPA MA5

- 6000 Count digital display
- Large white LED backlight display
- Autoranging
- 1mA High Precise resolution
- DC 0.1mV High Precise resolution
- True RMS reading on ACA/ACV
- VoltSeek™ for non-contact voltage detection
- Up to 3000A and Direct Ampere Reading with Flex transducer(Optional)
- Resistance, Capacitance & Diode Test
- ContiVision™ for visible continuity beeper
- Frequency Counter up to 50kHz
- °C/°F Temperature Function
- High Frequency Rejection(Low Pass Filter)
- Zeroing Key
- Smart Data Hold
- Min Max Hold
- Auto Power Off(Can be disabled)
- Up to 20mm dia. Conductor
- Torch lightening on trigger push
- CAT II 1000V, CAT III 600V, CAT IV 300V Standard

APPA MA SERIES CLAMP MULTIMETER

FEATURES:	APPA MA3	APPA MA5
Digital display	6000 count	6000 count
Large Display with white LED backlit	•	•
True RMS measuring	•	•
Auto Ranging	•	•
Data hold	Smart Data hold	Smart Data hold
Min/Max hold	•	•
Zeroing key	•	•
HFR(LPF)	•	•
Backlight	•	•
Trigger Torch	•	•
VoltSeek™(None Contact Voltage)	•	•
Automatic Power Off(can be disabled)	•	•
Continuity Check(Beep/LED)	•	•
Diode Test	•	•
Frequency counter	•	•
Capacitance Measurement	NA	•
Temperature Measurement	NA	•
Shock proof from 4 feet drops	•	•
Deluxe carrying case	•	•

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

ACA:	Ranges	6000mA, 60.00A, 100.0A	6000mA, 60.00A, 100.0A
	Resolution	1mA	1mA
	Basic Accuracy: ±(1.8%+5d) at 40Hz~400Hz	•	•
DCA:	Ranges	6000mA, 60.00A, 100.0A	6000mA, 60.00A, 100.0A
	Resolution	1mA	1mA
	Basic Accuracy: ±(1.8%+5d)	•	•
ACA via FLEX:	Ranges	300.0A, 3000A	300.0A, 3000A
	Basic Accuracy: Current probe excluded	±(1.0%+5d)	±(1.0%+5d)
ACV:	Ranges	6.000V~1000V	6.000V~1000V
	Resolution	1mV	1mV
	Basic Accuracy: ±(1.0%+5d) at 40Hz~500Hz	•	•
DCV:	Ranges	600.0mV~1000V	600.0mV~1000V
	Resolution	0.1mV	0.1mV
	Basic Accuracy: ±(0.7%+2d)	•	•
OHM:	Ranges	600.0Ω ~ 40.00MΩ	600.0Ω ~ 40.00MΩ
	Resolution	0.1Ω	0.1Ω
	Accuracy: ±(1.0%+2d)	•	•
Continuity Beeper:	<20Ω, 2.7KHz tone buzzer	•	•
Diode:	Ranges	1.500V	1.500V
	Resolution	0.001V	0.001V
	Accuracy: ±(1.0%+5d)	•	•
Capacitance:	Ranges	NA	1000nF~10.00mF
	Resolution	NA	1nF
	Basic Accuracy: ±(2.9%+5d)	•	•
Frequency Counter:	Ranges	1000.0Hz~50.00kHz	1000.0Hz~50.00kHz
	Resolution	0.1Hz	0.1Hz
	Accuracy: ±(0.3%+5d)	•	•
Temperature:	Ranges	NA	-40.0°C~400.0°C
	Resolution	NA	0.1°C
	Accuracy: ±(1.0%+20d)	•	•

GENERAL:

Reading Rate	3times/sec	3times/sec
Overload Indication	"OL" or "-OL"	"OL" or "-OL"
Low Battery Indication	•	•
Auto Power Off: Approx. 20 minutes	•	•
Operating Temperature: -10°C~50°C, ≤ 80% RH	•	•
Storage Temperature: -20°C ~ 60°C	•	•
Temperature Coefficient: 0.2(Spec. Acc)/°C, <18°C or>28°C	•	•
Safety: IEC 61010-1 and designed to meet UL 61010-1 specifications	CAT II 1000V, CAT III 600V, CAT IV 300V	CAT II 1000V, CAT III 600V, CAT IV 300V
Max. Jaw Opening	21mm	21mm
Maximum Conductor Size	20mm dia.	20mm dia.
Power Requirement: 2x1.5V AAA batteries	•	•
Battery Life: In hours	150	150
Size: 220mm(L) X 60mm(W) x 33mm(H)	•	•
Weight: In grams(with battery)	260	260
Included with instrument: Test Leads, ZnC battery (installed), carrying case and manual	•	(also including Temperature Probe)

APPA New 60 Series

Top of Low-Cost Digital Multimeters



ADD-VALUE DESIGN

Every 60 series meters are designed with two sides soft grips for better user-friendly and convenience, also include a built-in smart tilt stand, a nail hook, and convenient test lead storage.



NEW SLIM DESIGN

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



NONE CONTACT VOLTAGE DETECTING

APPA New 60 series have VoltSense™ feature to detect live cable and outlet without contact also find the cable alignment behind the wall as cable finder.



BATTERY EASY TO REPLACE

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



APPA 61



2000 count large scale digital display
 Autoranging and manual selection
 ACV, DCV, Ohm, Continuity and Diode function
 0.5% basic DCV accuracy
 Data Hold
 VoltSense™ feature (None contact voltage detecting)
 Auto Power Off (Disable)
 Shock proof from 4 feet drops
 Probe holder and tilt stand
 Soft grips of over molding
 CAT. III 600V Safety standard

APPA 62

APPA 62R (True-RMS reading)



2000 count large scale digital display
 Autoranging and manual selection
 ACV, DCV, Ohm, Continuity and Diode function
 True RMS reading on AC mode (62R only)
 0.5% basic DCV accuracy
 Data Hold
 VoltSense™ feature (None contact voltage detecting)
 10Amp ACA/DCA range
 MAX/MIN function key
 Frequency Counter
 Capacitor measurement
 Auto Power Off (Disable)
 Shock proof from 4 feet drops
 Probe holder and tilt stand
 Soft grips of over molding
 CAT. III 600V Safety standard

APPA 62T



2000 count large scale digital display
 Autoranging and manual selection
 ACV, DCV, Ohm, Continuity and Diode function
 0.5% basic DCV accuracy
 Data Hold
 VoltSense™ feature (None contact voltage detecting)
 10Amp ACA/DCA range
 MAX/MIN function key
 Frequency Counter
 Capacitor measurement
 Temperature measurement
 Temp. adaptor and bead probe included
 Auto Power Off (Disable)
 Shock proof from 4 feet drops
 Probe holder and tilt stand
 Soft grips of over molding
 CAT. III 600V Safety standard

NEW

APPA 66R

APPA 66RT (Temperature Function)



6000 count large scale digital display
 Auto detect AC/DC on Voltage and Ampere
 Autoranging and manual selection
 ACV, DCV, Ohm, Continuity and Diode function
 True RMS reading on AC mode
 0.5% basic DCV accuracy
 Smart Data Hold
 VoltSense™ feature (None contact voltage detecting)
 10Amp ACA/DCA range
 PEAK Hold/Relative function key
 Frequency measurement
 Capacitor measurement
 Temperature measurement (66RT only)
 Auto Power Off (Disable)
 Beep Guard
 Shock proof from 4 feet drops
 Comfortable Holster with Probe holder and tilt stand
 CAT. III 600V Safety standard

APPA NEW 60 SERIES MULTIMETERS

FEATURES:	APPA 61	APPA 62/62R	APPA 62T	APPA 66R/66RT
Digital display	2000 count	2000 count	2000 count	6000 count
Range selection	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
True RMS measuring	N/A	• (62R only)	N/A	•
Data hold	N/A	•	•	•
MIN/MAX function	N/A	•	•	•
VoltSense TM	•	•	•	•
Frequency counter	N/A	•	•	•
Capacitance measurement	N/A	•	•	•
Auditable continuity and Diode test	•	•	•	•
Peak hold/Relative mode	N/A	N/A	N/A	•
Beep guard	N/A	N/A	N/A	•
Automatic power shut off	•	•	•	•
Shock proof from 4 feet drops	•	•	•	•
Standard full-sleeve safety test leads	•	•	•	•

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

DCV	Ranges	200.0mV ~ 1000V	200.0mV ~ 1000V	200.0mV ~ 1000V	60mV ~ 1000V
	Resolution	0.01mV	0.01mV	0.01mV	0.01mV
	Basic Accuracy	±(0.5%+2d)	±(0.5%+2d)	±(0.5%+2d)	±(0.5%+2d)
	Input Impedance: 10MΩ	•	•	•	•
	Overload Protection: 1000VDC	•	•	•	•
ACV	Ranges	200.0mV ~ 750V	200.0mV ~ 750V	200.0mV ~ 750V	60mV ~ 1000V
	Resolution	1mV	1mV	1mV	0.01mV
	Basic Accuracy: At 50Hz ~ 60Hz	±(1.5%+5d)	±(1.5%+5d)	±(1.5%+5d)	±(1.0%+5d)
	Input Impedance: 10MΩ	•	•	•	•
	Overload Protection	750VDC	750VDC	750VDC	1000VDC
	Conversion Type: Average sensing RMS indicating	•	TrueRMS (62R only)	•	TrueRMS
DCA	Ranges	N/A	2.000A/10.00A	2.000A/10.00A	6.000A/10.00A
	Resolution	N/A	1mA	1mA	1mA
	Basic Accuracy	N/A	±(1.0%+3d)	±(1.0%+3d)	±(1.0%+2d)
	Input Protection: 10A/500V fast blowfuse for A input	•	•	•	•
ACA	Ranges	N/A	2.000A/10.00A	2.000A/10.00A	6.000A/10.00A
	Resolution	N/A	1mA	1mA	1mA
	Basic Accuracy: At 50Hz ~ 60Hz	N/A	±(1.5%+5d)	±(1.5%+5d)	±(1.5%+5d)
	Input Protection: 10A/500V fast blowfuse for A input	•	•	•	•
	Conversion Type: Average sensing RMS indicating	•	TrueRMS (62R only)	•	TrueRMS
OHM	Ranges	200.0Ω ~ 20.00MΩ	200.0Ω ~ 20.00MΩ	200.0Ω ~ 20.00MΩ	600.0Ω ~ 40.00MΩ
	Resolution	0.1Ω	0.1Ω	0.1Ω	0.01Ω
	Basic Accuracy	±(1.0%+3d)	±(1.0%+3d)	±(1.0%+3d)	±(0.8%+2d)
	Overload Protection: 600V rms	•	•	•	•
Continuity Beeper	2kHz tone Buzzer	<150Ω	<150Ω	<150Ω	<30Ω
Diode Test	Max. Open Circuit Voltage	2V	2V	2V	1.8V
Frequency Counter	Ranges	N/A	2kHz ~ 20MHz	2kHz ~ 20MHz	6kHz ~ 100kHz
	Resolution	N/A	1Hz	1Hz	1Hz
	Basic Accuracy	N/A	±(0.01%+1d)	±(0.01%+1d)	±(0.1%+2d)
	Overload Protection: 600V rms	•	•	•	•
Capacitance	Ranges	N/A	2nF ~ 2mF	2nF ~ 2mF	10nF ~ 10mF
	Resolution	N/A	1pF	1pF	0.01nF
	Basic Accuracy: ±(1.9%+8d)	N/A	•	•	•
	Overload Protection: 600V rms	•	•	•	•
Temperature	Ranges	N/A	N/A	-20°C ~ 800°C	-40°C ~ 400°C (66RT only)
	Resolution	N/A	N/A	0.1°C	0.1°C
	Basic Accuracy	N/A	N/A	±(1%+3°C)	±(1%+10d)
	Overload Protection: 600V rms	•	•	•	•

GENERAL:

Sampling Rate:	2 times/sec	2 times/sec	2 times/sec	3 times/sec
Overload Indication: "OL" or "-OL"	•	•	•	•
Low Battery Indication				
Auto Power Off: Approx. 10 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. III 600V, CAT. II 1000V	CAT. III 600V, CAT. II 1000V	CAT. III 600V, CAT. II 1000V	CAT. III 600V, CAT. II 1000V
Power Requirement: IEC LR03, AM4 or AAA Size 1.5V x 2	•	•	•	•
Battery Life: In hours (Alkaline battery)	250	250	250	300
Size: 74mm(W) x 156mm(L) x 44mm(H)	•	•	•	•
Weight: In grams	250	250	250	250
Accessories: Test Leads, ZnC battery(installed) and manual	•	•	Also including Temp. adaptor and Bead probe	Also including Temp. probe (66RT only)

APPA P Series Multimeter

Industrial and Commercial Applications



AUTOMATICALLY VOLTAGE DETECT WITH LOW IMPEDANCE

Special designed LoZ(low impedance) feature with auto Voltage detection, to prevent false reading caused by ghost voltage.



DAY & NIGHT

Super bright LED back light with 6,000 count digital and 60 segments analog display, gives you fulltime visual experience, also automatically goes off to save battery life(can be disabled).

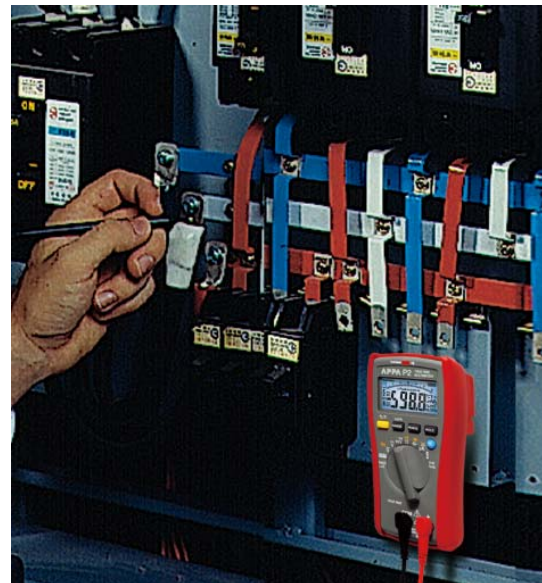


AC TRUE RMS

Every APPA P series meter has AC True RMS reading on both Voltage and Ampere (P3 only) function for better accuracy of industrial measurement.

Multifunction Holster

APPA P series meter is supplied with a protective holster that includes a build-in tilt stand, probe holder and innovative magnetic sticker to free your hands.



NON CONTACT VOLTAGE DETECTING

APPA P series have VoltSeek™ feature to detect live cable and outlet without contact also find the cable alignment behind the wall as cable finder.



NEW

APPA P1



6,000 count digital and 60 segments analog display
 Large **white LED backlight** display
True RMS measurements on ACV
LoZ for prevent false reading from ghost voltage
AutoVolt automatic AC/DC voltage selection
 Auto Ranging
 0.5% DCV accuracy
 Smart Hold
Peak Hold for capture peak readings
 Relative Function
 Auto Power Off (can be disabled)
 Capacitance measurements
 Frequency Counter on ACV
 Diode Test
VoltSeek™ for non-contact voltage detection
EasyStick™ holster with built in magnetic sticker
ContiVision™ for visible continuity beeper
 Battery Capacity indication in segments
 Included Holster with Probe Holder, Tilt Stand and Magnetic sticker
CAT IV 600V/ CATIII 1000V standard

NEW

APPA P3



6,000 count digital and 60 segments analog display
 Large **white LED backlight** display
True RMS measurements on ACV/ACA
LoZ for prevent false reading from ghost voltage
AutoVolt automatic AC/DC voltage selection
 Auto Ranging
 0.5% DCV accuracy
 Smart Hold
Peak Hold for capture peak readings
 Relative Function
 Auto Power Off (can be disabled)
 Capacitance measurements
 Frequency Counter on ACV/ACA
 Diode Test
 10Amp ACA/DCA
VoltSeek™ for non-contact voltage detection
EasyStick™ holster with built in magnetic sticker
ContiVision™ for visible continuity beeper
 11A/1000V High Energy Fuse
 Battery Capacity indication in segments
 Included Holster with Probe Holder, Tilt Stand and Magnetic sticker
CAT IV 600V/ CATIII 1000V standard

NEW

APPA P2



6,000 count digital and 60 segments analog display
 Large **white LED backlight** display
True RMS measurements on ACV
LoZ for prevent false reading from ghost voltage
AutoVolt automatic AC/DC voltage selection
 Auto Ranging
 0.5% DCV accuracy
 Smart Hold
Peak Hold for capture peak readings
 Relative Function
 Auto Power Off (can be disabled)
 Capacitance measurements
 Frequency Counter on ACV
 °C/°F Temperature Function
 AC/DC μ A Function
 Diode Test
VoltSeek™ for non-contact voltage detection
EasyStick™ holster with built in magnetic sticker
ContiVision™ for visible continuity beeper
 Temperature Probe included
 Battery Capacity indication in segments
 Included Holster with Probe Holder, Tilt Stand and Magnetic sticker
CAT IV 600V/ CATIII 1000V standard

APPA P Series Multimeter

FEATURES:	APPA P1	APPA P2	APPA P3
Digital display	6000 count	6000 count	6000 count
Analog bargraph display	60 segment	60 segment	60 segment
Large white LED Backlight	.	.	.
Autoranging	.	.	.
True RMS AC measurements	.	.	.
Smart Data Hold	.	.	.
Automatic AC/DC voltage selection	.	.	.
LoZ to prevent ghost voltage	.	.	.
10 Amp ACA/DCA Measurement	N/A	N/A	.
Resistance Measurement and Diode Test	.	.	.
Frequency Measurement	.	.	.
Micro Ampere Measurement	N/A	.	N/A
Capacitance Measurement	.	.	.
Temperature Measurement	N/A	.	N/A
ContiVision™ visible continuity beeper	.	.	.
VoltSeek™ non contact voltage detection	.	.	.
EasyStick™ holster with built in magnetic sticker	.	.	.
Peak Hold	.	.	.
Relative Function	.	.	.
High Energy Fuse	N/A	N/A	.
Shock proof from 4 feet drops	.	.	.
Holster with Probe Holder, Tilt Stand and Magnetic sticker	.	.	.

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

DCV:	Ranges	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	600.0mV, 6.000V, 60.00V, 600.0V, 1000V
	Resolution	0.1mV	0.1mV	0.1mV
	Basic Accuracy	±(0.5%+2d)	±(0.5%+2d)	±(0.5%+2d)
	Input Impedance: 10MΩ	.	.	.
ACV:	Ranges	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	600.0mV, 6.000V, 60.00V, 600.0V, 1000V
	Resolution	0.1mV	0.1mV	0.1mV
	Basic Accuracy: at 45Hz~500Hz	±(1.0%+3d)	±(1.0%+3d)	±(1.0%+3d)
	Input Impedance: 10MΩ//≤100pF	.	.	.
Auto-V LoZ:	Ranges	600.0V, 1000V	600.0V, 1000V	600.0V, 1000V
	Resolution	0.1V	0.1V	0.1V
	Basic Accuracy: at 45Hz~500Hz	±(2.0%+3d)	±(2.0%+3d)	±(2.0%+3d)
	Input Impedance: <3KΩ	.	.	.
DCμA:	Ranges	.	600.0μA	.
	Resolution	.	0.1μA	.
	Basic Accuracy	.	±(2.0%+3d)	.
	Overload Protection: 1000V rms	.	.	.
ACμA:	Ranges	.	600.0μA	.
	Resolution	.	0.1μA	.
	Basic Accuracy: at 45Hz~500Hz	.	±(1.5%+3d)	.
	Overload Protection: 1000V rms	.	.	.
DCA:	Ranges	.	.	6.000A, 10.00A
	Resolution	.	.	0.001A
	Basic Accuracy	.	.	±(1.0%+3d)
	Overload Protection: 11A	.	.	.
ACA:	Ranges	.	.	6.000A, 10.00A
	Resolution	.	.	0.001A
	Basic Accuracy: at 45Hz~500Hz	.	.	±(1.5%+3d)
	Overload Protection: 11A	.	.	.
OHM:	Ranges	600.0Ω~40.00MΩ	600.0Ω~40.00MΩ	600.0Ω~40.00MΩ
	Resolution	0.1Ω	0.1Ω	0.1Ω
	Basic Accuracy: 600.0Ω	±(0.9%+5d)	±(0.9%+5d)	±(0.9%+5d)
	6.000KΩ, 60.00KΩ, 600.0KΩ, 6.000MΩ	±(0.9%+2d)	±(0.9%+2d)	±(0.9%+2d)
	40.00MΩ	±(1.5%+5d)	±(1.5%+5d)	±(1.5%+5d)
Overload Protection: 1000V rms	.	.	.	
Continuity Beeper:	<20Ω, 2KHz tone buzzer	<20Ω, 2KHz tone buzzer	<20Ω, 2KHz tone buzzer	
Diode Test:	Ranges	1.500V	1.500V	1.500V
	Resolution	0.001V	0.001V	0.001V
	Basic Accuracy:	±(0.9%+2d)	±(0.9%+2d)	±(0.9%+2d)
	Open circuit voltage	1.8V max	1.8V max	1.8V max
	Overload Protection: 1000V rms	.	.	.
Frequency Counter:	Ranges	100.00Hz~100.00KHz	100.00Hz~100.00KHz	100.00Hz~100.00KHz
	Resolution	0.01Hz	0.01Hz	0.01Hz
	Basic Accuracy:	±(0.1%+2d)	±(0.1%+2d)	±(0.1%+2d)
	Sensitivity: >5V, >20V, >0.6A	.	.	.
	Overload Protection: 1000V rms or 11A	.	.	.
Capacitance:	Ranges	1.000μF~10.00mF	1.000μF~10.00mF	1.000μF~10.00mF
	Resolution	0.1μF	0.1μF	0.1μF
	Basic Accuracy	±(1.9%+2d)	±(1.9%+2d)	±(1.9%+2d)
	Overload Protection: 1000V rms	.	.	.
	Temperature:			
Ranges		-40°C~400°C	-40°F~752°F	
Resolution		0.1°C	0.1°F	
Basic Accuracy		±(1%+20d)	±(1%+36d)	
Overload Protection: 1000V rms				

GENERAL:

Sampling Rate: 3times/sec	.	.	.
Overload Indication: "OL" or "-OL"	.	.	.
Low Battery Indication	□	□	□
Auto Power Off: Approx. 20 minutes	.	.	.
Operating Temperature: -10°C~50°C, ≤80% RH	.	.	.
Storage Temperature: -20°C ~ 60°C	.	.	.
Temperature Coefficient: 0.1(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: Single 9V battery (NEDA 1604A or IEC 6LF22)	.	.	.
Battery Life: In hours (No backlit, Alkaline battery)	300	300	300
Size: 74mm(W) x 156mm (L) x 44mm(H)	.	.	.
Weight: In grams (with battery)	250	250	250
Included with instrument: Test Leads, Protective holster ZnC battery (installed) and manual	.	(also including Temperature Probe)	.

APPA®

APPA SFLEX-D/T

Flexible Current Probe Meter





NEW
APPA SFLEX-18T
APPA SFLEX-10T

- 3000A AC current measurement
- Slide switch to change range
- Voltage output to universal voltage meters
- 10/18inch head cable length
- 7.5mm coil diameter for tight space measurement
- 2 meter extension cable
- Low Batt. LED indicator
- Ergonomically designed one hand operation
- CAT IV 600V/ CAT III 1000V safety standard



NEW
APPA SFLEX-18D
APPA SFLEX-10D

- 3000A AC current measurement
- 3000 count large scale LCD display with backlit
- Auto Ranging
- Data Hold
- 10/18inch head cable length
- 7.5mm coil diameter for tight space measurement
- Low Batt. Segment indicator
- Ergonomically designed one hand operation
- CAT IV 600V/ CAT III 1000V safety standard



APPA 130F series intergated with APPA SFLEX-T expanding the current range to 3000 ACA, providing increased display flexibility, making electrical measurement easier and safer.

Flexible Current Probe Meter

FEATURES:

	APPA SFLEX-10D/18D	APPA SFLEX-10T/18T
Display	3000 count	N/A
AC Current	0.01A~3000A	0.01A~3000A
Basic Accuracy: at 45 - 500Hz	±(3.0%+5d)	±3% of full scale
Auto Ranging	.	N/A
Measuring Method	TRUE RMS	TRUE RMS
Display Hold	HOLD	N/A
Backlit	.	N/A
Head Cable Length	10/18 inch	10/18 inch
Extension Cable Length	N/A	2 meter
Hand Guard Designed	.	.

GENERAL:

Overload Indication	"OL"	N/A
Low Battery Indication	⏏	LED
Auto Power Off: Approx. 20 minutes	.	N/A
Operating Temperature: 0°C~50°C, □80% RH	.	.
Storage Temperature: - 20°C ~ 60°C	.	.
Temperature Coefficient: 0.2(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
Maximum Conductor Size	10" coil/ 18" coil size	10" coil/ 18" coil size
Coil Diameter	7.5mm	7.5mm
Power Requirement: IEC LR03, AM4 or AAA size Battery x 2	.	.
Battery Life: In hours(ALKALINE Battery)	200	160
Size: 280mm(L) x 120mm(W) x 25mm(H)(10" coil size) 350mm(L) x 130mm(W) x 25mm(H)(18" coil size)	.	.
Weight: In grams	170/200	170/200
Included with instrument: Battery and User manual	.	.

APPA Voltest-B and Voltest-S Voltage Tester

Safer and Easier of use





APPA Volttest-B

- 2 pole tester with LED indication
- 12 to 750V AC/DC Voltage indication range
- Integrated single pole test for phase detection
- Rotary field indication
- Continuity Beeper
- Ultra bright white LED Torch.
- Self Test
- IP65-water-jet and dust-tight protection for outdoor use
- Compact design with convenient battery door
- CAT. IV 600V /CAT. III 750V Safety Standard



APPA Volttest-S

- 2 pole tester with 2,000 count digital display
- Auto Sensing of ACV, DCV, Ω, Continuity and Diode
- Integrated single pole test for phase detection
- Rotary field indication
- Dual display for ACV measuring with Frequency
- AC/DC 750 Volts capability
- 2K Ohms Resistance range
- 1K Hz Frequency Counter
- Continuity Beeper
- Ultra bright white LED Torch.
- Self Test
- Battery capacity indication
- IP65-water-jet and dust-tight protection for outdoor use
- Compact design with convenient battery door
- CAT. IV 600V /CAT. III 750V Safety Standard

APPA VOLTEST-B AND VOLTEST-S VOLTAGE TESTERS

FEATURES:	Volttest-B	Volttest-S
Digital display	N/A	2,000 count
AC/DC 750 Volts capability	12 to 750V AC/DC LED indication	•
Auto Sensing of ACV, DCV, Ω, Continuity and Diode	N/A	•
Integrated single pole test for phase detection	•	•
Rotary field indication	•	•
Dual display for ACV measuring with Frequency	N/A	•
2kOhms Resistance range	N/A	•
1kHz Frequency Counter	N/A	•
Continuity Beeper	•	•
Ultra bright white LED Torch	•	•
Self Test	•	•
Battery Capacity Indication	•	•
IP 65 water-jet and dust-tight protection for outdoor use	•	•
Compact design with convenient battery door	•	•
CAT.IV 600V /CAT.III 750V Safety Standard	•	•

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

DCV:	Ranges:	12,24,50,120,230,400,750V	2V~750V/-1V~-750V
	Resolution:	N/A	1V
	Basic Accuracy:	N/A	±(1.0%+2d)
	Overload Protection: 750V AC/DC	•	•
ACV:	Ranges:	12,24,50,120,230,400,750V	1V~750V
	Resolution:	N/A	1V
	Basic Accuracy: 50Hz~500Hz	N/A	±(1.3%+5d)
	Overload Protection: 750V AC/DC	•	•
OHM:	Ranges:	N/A	0.Ω~2000.Ω
	Resolution:		1.Ω
	Basic Accuracy:		±(2%+2d)
	Overload Protection: 750V AC/DC		•
Continuity Beeper:	Threshold:	<600K.Ω	<200.Ω
Diode Test:	Ranges:	N/A	0.3V~0.9V
	Basic Accuracy:		±(0.9%+2d)
Auto Power On:	>12V AC/DC	•	•
Hz:	Ranges:	N/A	1Hz~999Hz
	Resolution:		1Hz
	Basic Accuracy:		±(0.3%+5d)
	Overload Protection: 750V AC/DC		•
Single Phase Test:	Voltage Ranges:	100~750V AC	100~750V AC
	Frequency Ranges:	45~65Hz	45~65Hz
Rotary Field Indication:	Voltage Ranges:	100~750V AC	100~750V AC
	Frequency Ranges:	50~60Hz	50~60Hz

GENERAL:

Sampling Rate:	10times/sec	10times/sec
Overload Indication: "OL" or "-OL"	N/A	•
Low Battery Indication	N/A	□
Auto Power Off:	N/A	20 sec.
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: EN 61010-1, EN61243-3, EN61557, and EN60529 regulation	CAT. IV. 600V, CAT. III 750V	CAT. IV. 600V, CAT. III 750V
Power Requirement: AAA size 1.5V x 2 batteries (IEC LR03)	•	•
Battery Life: In hours (Alkaline battery)	200	200
Size: 68mm(W) x 239mm (L) x 29 mm(H)	•	•
Weight: In grams (with holster)	220	220
Accessories: ZnC batteries (installed) and Manual	•	•

APPA®

APPA VP-1 VOLTPEN

Compact and Rugged designed Voltage Detector



NEW

APPA VP-1 VOLTPEN

Expand range: 90V~1000V AC or 200V to 1000V AC depend on NA or EU models

Flashing and beeping once a live cable was detected

Phase finding on socket outlets

Unique variable beeping according to AC signal amplitude

Ergonomically designed soft grip for better holding when detecting

Industrial rugged design for heavy duty use

Compact design with convenient battery cap

CAT. IV 1000V Safety Standard



Specification:(All at 23°C ± 5°C < 80%RH)

Voltage sensing ranges: 90V AC to 1000VAC or 200VAC to 1000V AC depend on NA or EU models

Detection tip style: Blade or round, depend on models

Light Source: One high intensity red LED

Operating Temperature: 0°C ~ 50°C

Storage Temperature: -20°C ~ 60°C

Safety: Designed to meet IEC 61010 & UL61010,
CAT. IV 1000V Safety Standard

Power Requirement: IEC LR03, AM4 or
AAA size 1.5V x 2

Dimensions: 18mm(W) x 151mm(L) x 22mm(D)

Weight: Approx. 120g

APPA®

APPA VP-2 VOLTPEN

Phase Sequence and Voltage Detector





NEW

APPA VP-2 VOLTPEN

Expand range: 100V~1000V AC

Phase sequence indication and conformity phase test

AC Voltage detection on conductive and insulated parts

Ergonomically designed soft grip for better holding when detecting

Compact design with convenient battery cap

Visible LED and acoustic buzzer indications

Auto Power OFF

CAT IV 600V /CAT III 1000V Safety Standard

Specifications:(All at 23°C ± 5°C < 80%RH)

Voltage range: 100V~1000VAC

Detection tip style: Blade or round depend on models

Frequency: 45 ~ 65 Hz

Protection category: IP 53

Auto Power Off: Approx. 5 min.

Power supply: IEC LR03 AM4 or AAAsize1.5Vx2pcs

Dimensions:0.8in(W) x 5.94in(L) x 0.99in(D) /20.6mm(W) x 151mm(L) x 25.2mm(D)

Weight: 40g (with batteries)

APPA Accessories

AH-300 APPA 300 Series Holster (Yellow)



Easy-to Clean, nail hook holster absorbs shocks and protects meter. Lead and probe storage on back, lean or stand in best viewing position.
AH-300 for 300 series DMM

AH-90/100 APPA90/100 Series Holster (Yellow, Grey)



AH-90 AH-100

Easy-to Clean, nail hook holster absorbs shocks and protects meter. Lead and probe storage on back, lean or stand in best viewing position.
AH-90 for 90 series DMM
AH-100 for 100 series DMM

AH-109 APPA 107/109 Holster (Grey)



Easy-to Clean, nail hook holster absorbs shocks and protects meter. Lead and probe storage on back, lean or stand in best viewing position.
AH-109 for 107/109 DMM

AH-70 APPA 70 series holsters (Light Grey)



Easy to Clean, nail hook holster absorbs shocks and protects meter. Lead and probe storage on back, lean or stand in best viewing position.

AH-50A/50B APPA 50 Series Holster (Yellow)



AH-50A AH-50B

Nail hook holster for meters, absorbs shocks and protects the meter from rough handling. built-in stand. AH-50A for APPA51/53. AH-50B for APPA 52/55.

AH-80 APPA 80 series holsters (Light Grey)



Easy to Clean, holster absorbs shocks and protects meter. Lead and probestorage on back.

AH-60A/60B APPA 60 Series Holster (Grey)



AH60-A AH-60B

Easy-to-Clean, nail hook holster absorbs shocks and protects meter, built-in stand and holder. Lean or stand for best viewing position. Lead/probe storage on sid.
AH-60 for APPA63/65.
AH60B for APPA67.69

AH-99II APPA 90II series holsters (Light Grey)



Easy to Clean, nail hook holster absorbs shocks and protects meter. Lead and probe storage on back, lean or stand in best viewing position.

LP-17R Red Long Tip Probe



Replacement test probe with 65mm insulated tip for APPA 17 pen-type multimeter. Also designed to protect against accidental contacts, 1000V, 10A.

ATL-4 Test Lead Set



Replacement test lead for APPA A7D, A7A, A5, and A9. Hard tips Comfort-grip, safety-shrouded, right-angle plug, 48 (1.2m), 1000V, 10A, CAT. IV 600V/ CAT. III 1000V.

ATL-1 Test Lead Set



Hard alloy tips for long life. Comfort-grip, safety-shrouded, INSULATED right-angle plug, 48"(1.2m), UL listed lead wire, 1000V, 10A, CAT III.

ATL-5 Test Lead Set



Extra strong 4mm banana tips for long life for APPA A7D, A7A, A5, and A9. Hard tips Comfort-grip, safety-shrouded, right-angle plug, 48 (1.2m), 1000V, 10A, CAT. IV 600V/CAT. III 1000V.

ATL-2 Test Lead Set



Extra strong 4mm banana tips for long life. Comfort-grip, safety-shrouded, INSULATED right-angle plug, 48"(1.2m), UL listed lead wire, 1000V, 10A, CAT III.

ATL-6 Test Lead Set



Replacement test lead for APPA new 60 series multimeters. Hard tips Comfort-grip, safety shrouded, right-angle plug, 48 (1.2m), 1000V, 10A, CAT. III 600V/ CAT. II 1000V.

ATL-3 Test Lead Set



Replacement test lead for APPA30/60/90/100/200 series, Hard tips Comfort-grip, safety-shrouded, right-angle plug, 48"(1.2m), 1000V, 10A, CAT III.

Specifications subject to change without notice.

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AC-31/32 Carrying Case



Soft sided, zippered. Nylon fabric carrying case for APPA 31/32 current transducer or APPA 17+15, Inside pocktes are designed to carry test leads and manual, built-in belt loop.

AC-17 Carrying Pouch



Vinyl carrying case. Designed to carry a meter, test leads set. For APPA 17.

AC-35 Carrying Case



Soft sided, zippered, Vinyl carrying case for APPA 35N/30 clamp meter. Inside pockets are designed to carry test lead, and manual, built-in belt loop.

AC-M1 Carrying Case



Tough, double wall woven fabric, two way zipper carrying case for APPA 80, 90, 90II, 100 series, 76 and 25 multimeters. Inside pockets are designed to carry test lead, and manual. Convenient 5.3 (135mm) belt loop accommodates tool belts

AC-33 Carrying Case



Soft sided, zippered, Nylon fabric carrying case for APPA 33/37 clamp meter. Inside pockets are designed to carry test lead, and manual, built-in belt loop.

AC-M2 Carrying Case



Tough, double wall woven fabric, two way zipper carrying case for APPA 50, 60, 70 series multimeters. Inside pockets are designed to carry test lead, and manual. Convenient 5.3 (135mm) belt loop accommodates tool belts

AC-300 Carrying Case



Tough, double wall woven fabric, two way zipper carrying case for APPA 300 series multimeter. Inside pockets are designed to carry test lead, temp. adaptor, bead probe, RS 232 cable and manual.

AC-C1 Carrying Case



Tough, double wall woven fabric, two way zipper carrying case for APPA 39AC, 39AR, 39MR, A15/A15R, A16/A16R, and A16H/A16HR. Inside pockets are designed to carry test lead, and manual, built-in belt loop.

AC-C2 Carrying Case



Tough, double wall woven fabric, one way zipper carrying case for APPA A 39T, A11/A11R, A12 /A12R, and A18plus. Inside pockets are designed to carry test lead, and manual, built-in belt loop.

TL-10S Test Lead Interface



Connect 4mm banana plugs to standard input jacks of a multimeter. Coiled cable for convenient use, extend up to 60 (1.5m), 1000V, 10A rating.

AC-C3 Carrying Case



Tough, double wall woven fabric, one way zipper carrying case for APPA 35, 30, 31, 36, 33II, 36II, A10plus, A6, A8, A9, A7, A7D, A5, A2, and A3. Inside pockets are designed to carry test lead, and manual, built-in belt loop.

TL-70 Clip Test Lead Set



For APPA 76 component tester or other meters, spring-loaded clips with serrated teeth, safety-shrouded, right-angle input, 10"(25cm), 250V, 10A. one red, one black.

AC-10S Superior Carrying Case



Tough, double wall woven fabric, two way zipper carrying case for APPA 10 series meters. Three separate holders to carry an APPA 17 and two transducers, inside pocket is designed to carry test leads, bead probe and manual.

This deluxe carrying case is also versatile to carry APPA 60 series multimeter, APPA 50 series thermometer etc.

TC-10 Alligator Clip Set



Slip-on insulated alligator clips for use with test leads probe 1000V, 10A rating, one red, one black.

TL-10 Safety Test Lead Set



Replacement test lead for APPA 17. Include one TC-10B, SP-17R, LP-17R and ATL-3B.

SP-17R Red Standard Probe



Replacement test probe for APPA 17 pen-type multimeter. Also designed to protect against accidental contacts, 1000V, 10A.



www.appatech.com



Americas Region

MGL America, Inc.
info.na@mgl-intl.com

US East Coast

2810 Coliseum Centre Drive, Ste. 100.
Charlotte, North Carolina 28217 USA
Tel: +1 833 533-5899

US West Coast

760 Challenger Street.
Brea, California 92821 USA
Tel: +1 310-728-6220

APAC Region

MGL APPA Corporation
info.apac@mgl-intl.com
Flat 4-1, 4/F, No. 35, Section 3
Minquan East Road. Taipei, Taiwan.
Tel: +886 2-2508-0877

EMEA Region

MGL Euman, S.L.
info.emea@mgl-intl.com
Parque Empresarial Argame, 33163 Morcín.
Asturias, Spain.
Tel: +34 985-08-18-70

www.mgl-intl.com

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