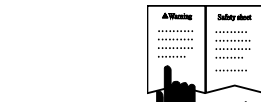
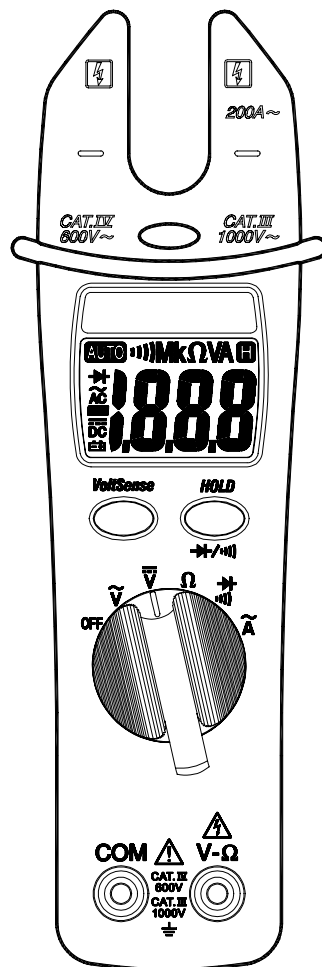


**A5  
Clamp Meter**

**APPA®**

Instruction  
Card



**Read First**

**⚡ Safety Information**

- To ensure safe operation and service of the Meter, follow these instructions. Failure to observe warnings can result in severe **injury** or **death**.
- Avoid working alone so assistance can be rendered.
  - Do not use test leads or the Clamp Meter if they look damaged.
  - Do not use the Meter if the Clamp Meter is not operating properly or if it is wet.
  - Use the Clamp Meter only as specified in the Instruction card or the protection by the Clamp Meter might be impaired.
  - Individual protective device must be used if hazardous live parts in the installation where the measurement is to be carried out could be accessible.

**Symbols as marked on the Tester and Instruction card**

	Risk of electric shock
	See instruction card
	Equipment protected by double or reinforced insulation
	Battery
	Earth
	Conforms to EU directives

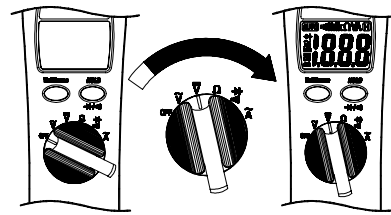
**Maintenance**

Do not attempt to repair this Clamp Meter. It contains no user-serviceable parts. Repair or serving should only be performed by qualified personal.

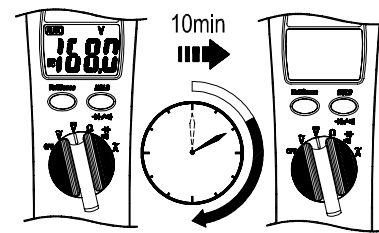
**Cleaning**

Periodically wipe the case with a dry cloth and detergent do not use abrasives or solvents.

**Power On / Off**

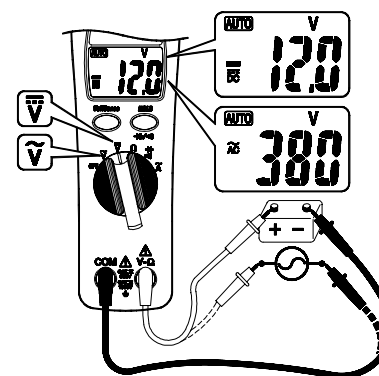


**Auto Power Off**

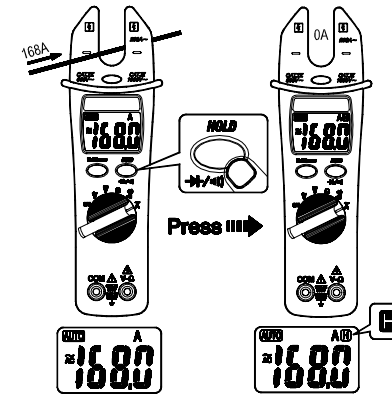


The meter will automatically shut itself off after approximately 10 minutes after power on.

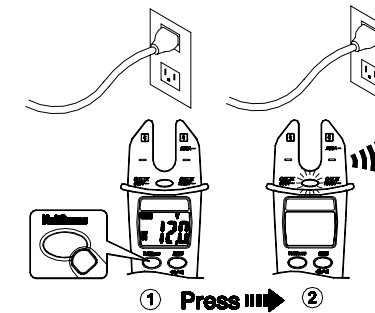
**AC V / DC V**



**Data Hold**

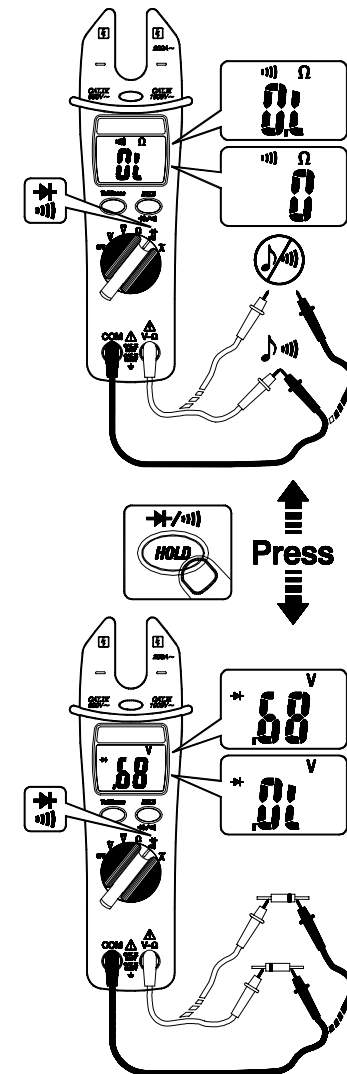


**VoltSense™**

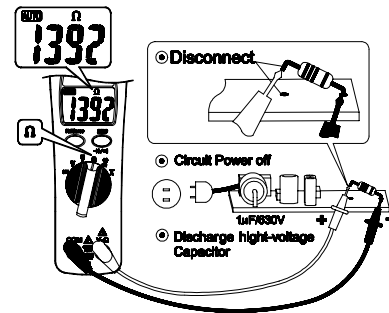


1. VoltSense™ switch will be activated on any function or at OFF status.
2. Test leads are not used for the Volt Sense test.
3. Press the VoltSense™ button. The display goes black, a tone sounds and the red LED next to the VoltSense™ button on the front panel lights. Up to verify that the instrument is operational while pressing the button hold.

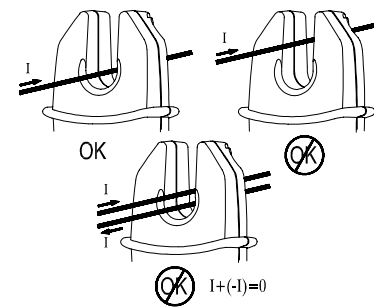
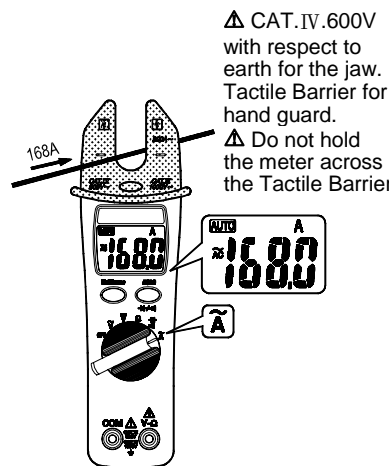
**Diode / Continuity**



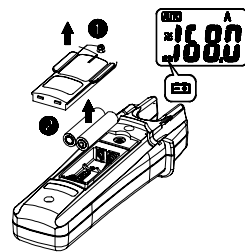
## Resistance



## ACA



## Battery Replacement



## Specifications

### 1-1 General Specifications

**LCD display digits :**  
3 1/2 digit large scale LCD readout.

**Display count :** 2000 counts.

**Measuring rate :** 1.5 times / sec.

**Overrange display :**

“OL” is displayed for “Ω” functions, shows the real value for “A” and “V” function.

**Automatic power off time :**  
Approximately 10 minutes after power on.

**Low battery indicator :**  
⊖ is displayed.

**Power requirement :**  
1.5V x 2 batteries

**Battery life :** ALKALINE 250 hours.

### 1-2 Environmental Conditions

**Indoor Use.**

**Calibration :**  
One year calibration cycle.

**Operating temperature :**  
0°C ~ 30°C (≤80% RH)

30°C ~ 40°C (≤75% RH)

40°C ~ 50°C (≤45%RH)

**Storage temperature :**

-20 to +60°C, 0 to 80% RH (batteries not fitted).

**Dimensions (W x H x D) :**

54mm x 193mm x 31mm

**Weight :** 280g including battery.

**Accessories :** Battery (installed), Carrying case and User manual.

**Overvoltage category :**

IEC 61010-1 1000V CAT. III.

600V CAT. IV.

## CAT Application field

I	The circuits not connected to mains.
II	The circuits directly connected to Low-voltage installation.
III	The building installation.
IV	The source of the Low-voltage installation.

**Operating altitude :** 2000m (6562 ft)

**Conductor Size :** 16mm diameter.

**Pollution degree :** 2

**EMC :** EN 61326-1

**Shock vibration :**

Sinusoidal vibration per MIL-T-28800E (5 ~ 55 Hz, 3g maximum).

**Droop Protection :**

4 feet droop to hardwood on concrete floor.

### 1-3 Electrical Specifications

Accuracy is ±(% reading + number of digits) at 23°C ± 5°C < 80%RH.

**Temperature coefficient :**  
Add 0.2 x (Specified accuracy) / °C, < 18°C, > 28°C.

### DC / AC Volts

Range	DC Accuracy	AC Accuracy
200.0V	±(1.0% + 2dgt)	±(1.5% + 5dgt)
DC 1000V AC 750V		50Hz ~ 500Hz

**Over voltage protection :**

DC 1000V / AC 750V

**Input Impedance :**

2 MΩ // less than 100pF.

**CMRR / NMRR :**

**(Common Mode Rejection Ratio)**

**(Normal Mode Rejection Ratio)**

V<sub>AC</sub> : CMRR > 60dB at DC,

50Hz / 60Hz

V<sub>DC</sub> : CMRR > 100dB at DC,

50Hz / 60Hz

NMRR > 50dB at DC,

50Hz / 60Hz

## AC Conversion Type :

Average sensing rms indication.

### AC Current

Function	Range	Accuracy
A <sub>~</sub> (50~60Hz)	0.0 ~ 200.0A	±(3.0% + 3 dgt)

**Overload protection :** 400 Arms

**AC Conversion Type :**

Average sensing rms indication.

\* **Adjacent conductor influence :**  
< 0.06 A/A

### Resistance

Range	Accuracy
200.0 Ω *3	±(1.0% + 5 dgt) *2
2.000 KΩ *3	±(0.7% + 2 dgt)
20.00 KΩ *3	
200.0 KΩ *3	±(1.0% + 2 dgt)
2.000MΩ *3	
20.00 MΩ	±(1.9% + 5 dgt) *1

**Overload protection :** 600Vrms

**Open circuit Voltage :**

-1.3V approx.

\* 1 < 100 dgt rolling.

\* 2 < 10 dgt rolling.

\* 3 The maximum LCD reading is 1400 counts.

### Diode Check and Continuity

Resolution	Accuracy
10 mV	±(1.5%+5 dgt)*

\* For 0.4V ~ 0.8V

**Max. Test Current :** 1.5mA

**Max. Open Circuit Voltage :** 3V

**Overload Protection :** 600Vrms

**Continuity :** Internal beeper

activates if the resistance of the

circuit under test is less than 20Ω.

It will then turn off if the resistance

is increased beyond 50Ω.

Response time is approximately

50m sec.

## Limited Warranty

This Meter is warranted to the original purchaser against defects in material and workmanship for 1 year from the date of purchase. During this warranty period, manufacturer will, at its option, replace or repair the defective unit, subject to verification of the defect or malfunction.

This warranty does not cover fuses, disposable batteries, or damage from abuse, neglect, accident, unauthorized repair, alteration, contamination, or abnormal conditions of operation or handling.

Any implied warranties arising out of the sale of this product, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the above. The manufacturer shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expense or economic loss. Some states or countries laws vary, so the above limitations or exclusions may not apply to you.

## APPA TECHNOLOGY CORP.

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