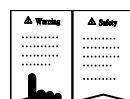
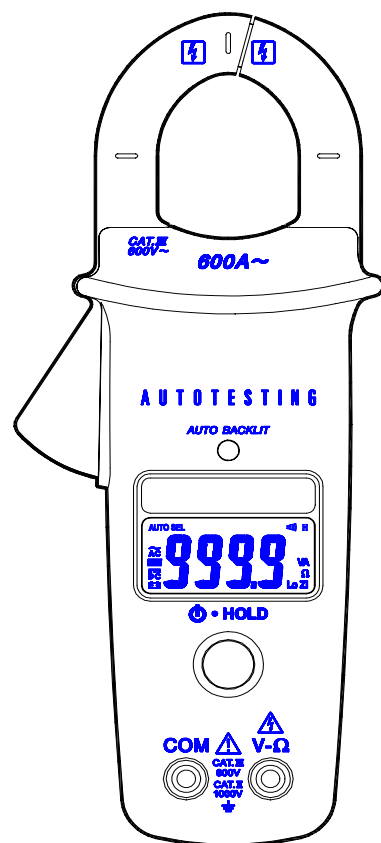


APPA®

A6
Clamp Multimeter

Instruction
Card



Read First

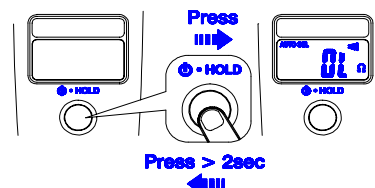
Safety Information

- To ensure safe operation and service of the Tester, 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 Tester if they look damaged.
 - Do not use the Tester if the Tester is not operating properly or if it is wet.
 - Use the Tester only as specified in the Instruction card or the protection by the Tester might be impaired.
 - Use extreme caution when working around bare conductors or bus bar. Contact with the conductor could result in electric shock.
 - Do not use the Tester to measure voltages in circuits that could be damaged by the Tester's low input impedance (approximate 4K Ω)
 - Use caution with voltages above 30 V ac rms, or 60 V dc. These voltages pose a shock hazard.

Symbols as marked on the Tester and Instruction card

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

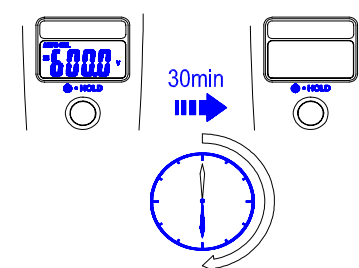
Power On / Off



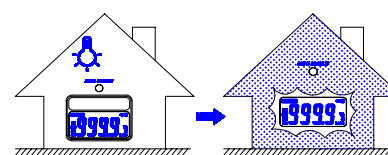
Caution

The Tester powers up in Ω / continuity mode.

Auto Power Off



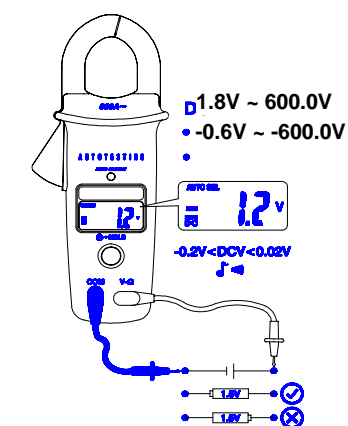
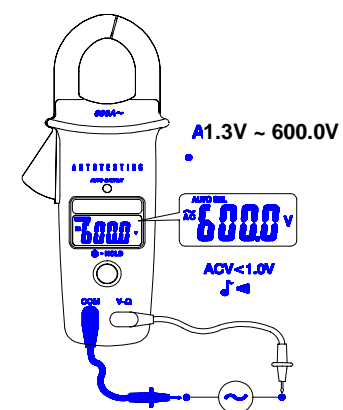
Auto Backlight



Caution

If the meter is used in the vicinity of equipment which generates electromagnetic interference, the display may become unstable or the measurements show may be subject to large errors.

AC V / DC V



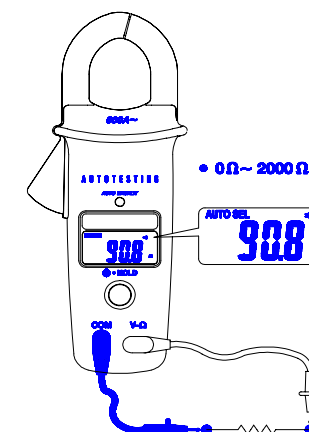
Input Impedance

$\geq 4K$ for input voltage up to 30V. Impedance increase with input voltage to approximate 200K Ω at 600V.

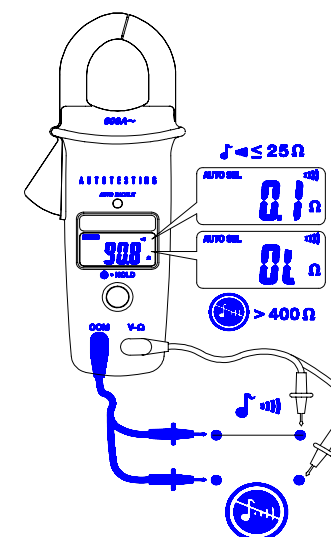
Warning

Do not apply more than 600V rms between Tester terminal and earth ground.

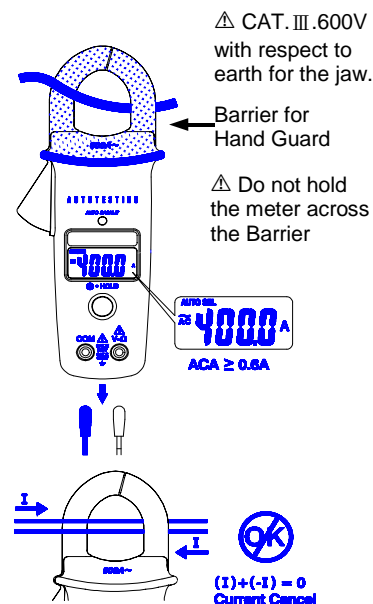
Resistance



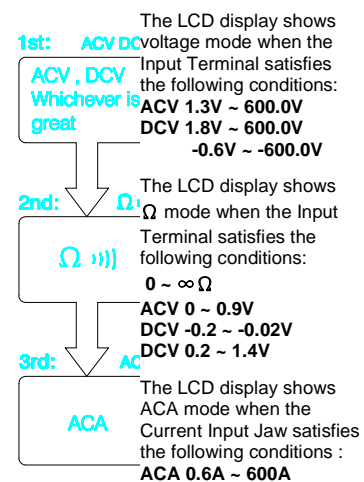
Continuity



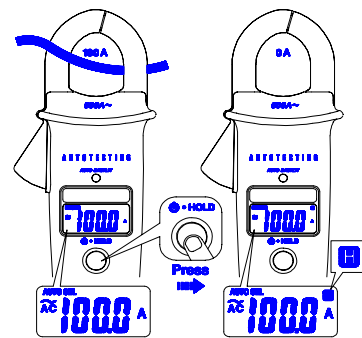
AC A



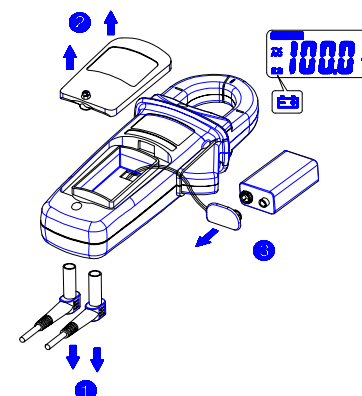
Priority of function



Data Hold



Battery Replacement



Maintenance

Do not attempt to repair this Tester. 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.

Specifications

1-1 General Specifications

LCD display digits :
 6000 digit large scale LCD readout.

Measuring rate : 5 times / sec.

Overrange display :

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

Automatic power off time :

Approximately 30 minutes after power on.

Low battery indicator :

⚡ is displayed. Replace the battery when the indicator ⚡ appears in the display.

Power requirement : 9V battery.

Battery type and life :

ALKALINE PP3, 9V 250 hours.

1-2 Environmental Conditions

Indoor Use.

Calibration :

One year calibration cycle.

Operating temperature :

0°C ~ 30°C ($\leq 80\% RH$)

30°C ~ 40°C ($\leq 75\% RH$)

40°C ~ 50°C ($\leq 45\% RH$)

Storage temperature :

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

Operating altitude : 2000m (6562 ft)

Overvoltage category :

IEC 61010-1 600V CAT. III,

1000V CAT. II.

CAT. III equipment is designed to protect against the transients in the equipment in fixed installations, such as distribution panels, feeders and short branch circuits and lighting systems in large buildings.

Conductor Size : 27mm diameter.

Pollution degree : 2

EMC : EN 61326-1

Shock vibration :

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

1-3 Electrical Specifications

Accuracy is $\pm(\% \text{ reading} + \text{number of digits})$ at 23°C $\pm 5^\circ\text{C}$ < 80%RH.

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

Voltage

Function	Range	Accuracy
V~	1.3V ~ 600.0V	$\pm(1.5\% + 3 \text{ dgt})$ 50Hz ~ 500Hz
V=	1.8V ~ 600.0V	$\pm(1\% + 2 \text{ dgt})$
	-0.6V ~ -600.0V	$\pm(1\% + 4 \text{ dgt})$

Overload protection : 600 Vrms

Max Operation time :

DT=30s for $\geq 30V$

Input impedance : $\geq 4K\Omega$ for input voltage up to 30V. Impedance increase with input voltage to approximate 200K Ω at 600V.

Resistance & Continuity

Function	Range	Accuracy
Ω	0.0 Ω ~ 99.9 Ω	$\pm(2\% + 1 \Omega)$
	100 Ω ~ 2000 Ω	$\pm(2\% + 2 \text{ dgt}) *1$

Overload protection : 600V rms

Max. open circuit voltage : 1.5V

Continuity check : Internal sounds activates if the resistance of the circuit under test is less than 25 Ω . It will then turn off if the resistance is increased beyond 400 Ω .

* 1 : Temperature coefficient multiply by 1.5 when operating temperature is 40°C ~ 50°C.

AC Current

Function	Range	Accuracy
A~	0.6 ~ 60.0A	$\pm(1.9\% + 2 \text{ Amp})$
(50~60Hz)	60.0~400.0A	$\pm(1.9\% + 1 \text{ Amp})$
	400.0~600.0A	$\pm(2.5\% + 7 \text{ Amp})$

Overload protection : 600.0A

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 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.

9F, 119-1 Pao-Zong Rd.,
 Shin-Tien, Taipei, 23115, Taiwan.
 P.O.Box. 12-24 Shin-Tien, Taiwan.
 Tel: +886-2-29178820
 Fax: +886-2-29170848
 E-mail: info@appatech.com
 http: //www.appatech.com