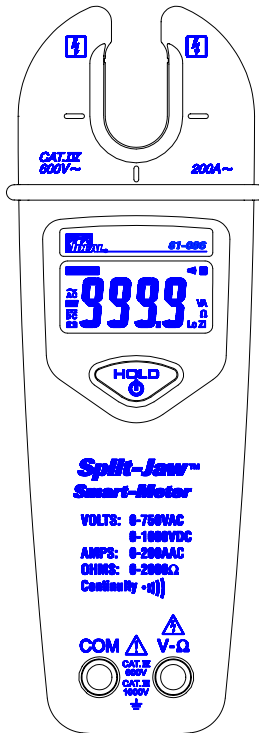
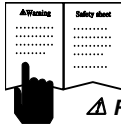


#61-096

Split-Jaw™ Smart-Meter













⚠ Read First

⚠ Safety Information

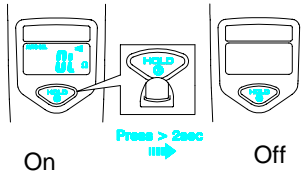
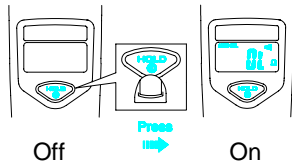
To ensure safe operation and service of the Tester, follow these instructions. Failure to observe warnings can result in severe **injury or death.**

- 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 (approximately $4K\Omega$)
- Use caution with voltages above 30 V ac rms, or 60 V dc. These voltages pose a shock hazard.

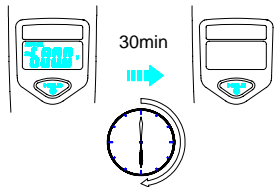
Symbols as marked on the Tester and Instruction card

	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



Auto Power Off

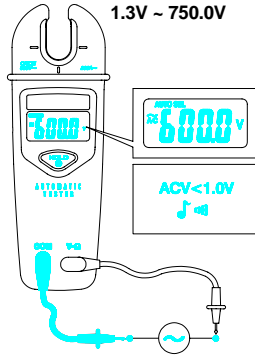


⚠ Caution

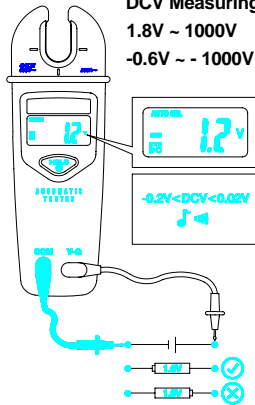
If the meter is used in the vicinity of equipment which generates electromagnetic interference, the display may become unstable or the measurements shown may be subject to large errors.

Voltage AC/DC

ACV Measuring Range:
1.3V ~ 750.0V



DCV Measuring Range:
1.8V ~ 1000V
-0.6V ~ - 1000V



• Input Impedance

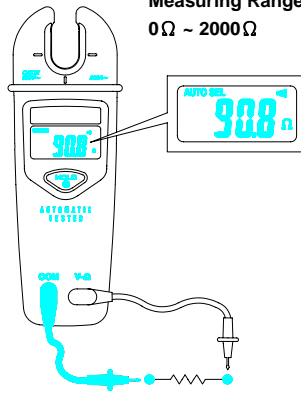
$\geq 4K$ for input voltage up to 30V.
Impedance increase with input
voltage to approximately 200K Ω at
600V.

⚠ Warning

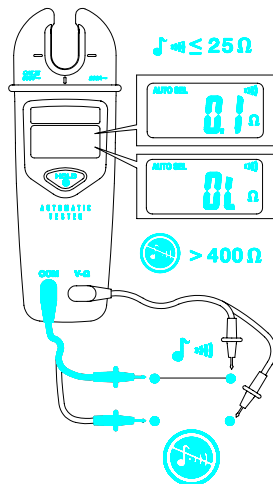
Do not apply more than 1000VDC /
750VAC between Tester terminal
and earth ground.

Resistance (Ohms)

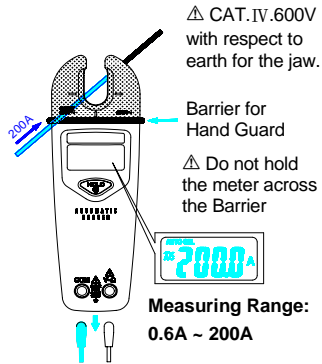
Measuring Range:
 $0\ \Omega \sim 2000\ \Omega$



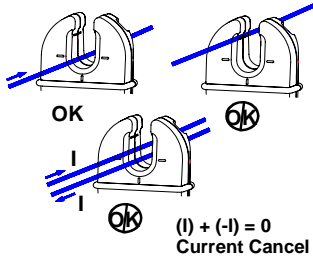
Continuity (🔊)



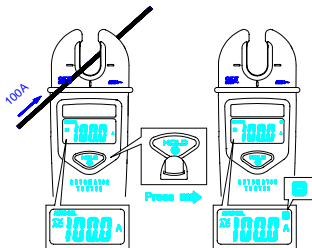
AC Current (Amps)



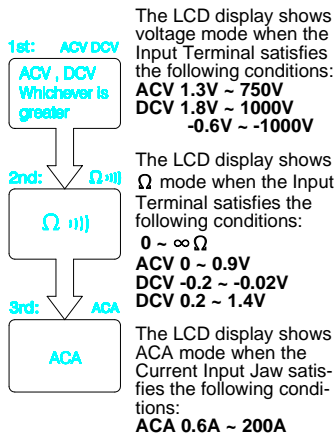
Jaw accepts up to 1/0 cable (cu)
 (0.5" or 12.7mm max diameter)



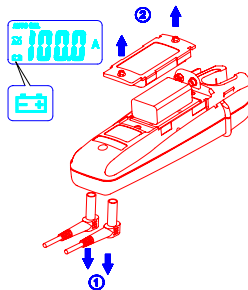
Data Hold



Priority of function



Battery Replacement



Maintenance

Do not attempt to repair this Tester. It contains no user-serviceable parts. Repair or servicing should only be performed by qualified personnel.

Cleaning

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

Specifications

1-1 General Specifications

Jaw opening : 0.5" (12.7mm)
Accepts up to 1/0 copper cable.
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 CAT.IV600V
CAT. III 1000V
IEC 61010-1 600V CAT.IV.
CAT.IV equipment of OVERVOLTAGE CATEGORY IV is for use at the origin of the installations. Note examples include electricity meters and primary over-current protection equipment.
Conductor Size : 27mm diameter.
Pollution degree : 2
EMC : EN 61326-1
Shock vibration :
Sinusoidal vibration per MIL-T-28800E (5 ~ 55 Hz, 3g maximum).
Drop Protection : 4 foot drop to hardwood on concrete floor.

1-3 Electrical Specifications

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

Temperature coefficient :
 $0.2 \times (\text{Specified accuracy}) / ^{\circ}\text{C}$,
 $< 18^{\circ}\text{C}$, $> 28^{\circ}\text{C}$.

Voltage


Function	Range	Accuracy
V_{\sim}	1.3 ~ 750.0V	$\pm(1.5\%+3\text{dgt})$ 50Hz ~ 500Hz
V_{DC}	1.8V ~ 1000V	$\pm(1\% + 2 \text{ dgt})$
	-0.6V ~ -1000V	$\pm(1\% + 4 \text{ dgt})$

Overload protection :
1000 VDC / 750 VAC

Max Operation time :
DT=30s for $\geq 30\text{V}$

Input impedance : $\geq 4\text{K}$ for input voltage up to 30V. Impedance increases with input voltage to approximately $200\text{K}\Omega$ at 600V.

Resistance & Continuity

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

* Temperature coefficient multiplies by 1.5 when operating temperature is $40^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

Overload protection :
1000 VDC / 750 VAC

Max. open circuit voltage : 1.5V

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

AC Current

Function	Range	Accuracy
A_{\sim}	0.6A ~ 200.0A	$\pm(1.8\%+3\text{dgt})^*$ 50Hz ~ 60Hz

Overload protection : 400A
 $\pm(1.8\% + 6 \text{ dgt})$ for $\leq 50\text{A}$.

Lifetime Limited Warranty

This meter is warranted to the original purchaser against defects in material or workmanship for the lifetime of the meter. During this warranty period, IDEAL INDUSTRIES, INC. will, at its option, replace or repair the defective unit, subject to verification of the defect or malfunction.

This warranty does not apply to defects resulting from abuse, neglect, accident, unauthorized repair, alteration, or unreasonable use of the instrument.

Any implied warranties arising out of the sale of an IDEAL 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, expenses or economic loss.

State laws vary, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.