DCA/ACA CLAMP ADAPTER

Model :	CA-502		

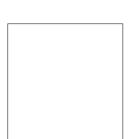
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Caution Symbol

Caution:

- * Risk of electric shock!
- * When make the measurement, do not clamp any conductor that not insulated.



Caution:

- * Do not apply the overload current to the Current Sensing Jaw.
- * Stop the measurement before open the battery cover!
- * Cleaning Only use the dry cloth to clean the plastic case!

Environment Conditions

- * Installation categories III.
- * Pollution Degree 2.
- * Altitude up to 2000 meters.
- * Indoor use.
- * Relative humidity 80% max.

1. FEATURES

- * To match "DIGITAL MULTIMETER" be used as a DIGITAL DCA & ACA CLAMP METER.
- * Wide measuring range max. measuring up to 1000 ACA, 1000 DCA.
- * Design to meet IEC1010 safety requirement.
- * Build in low battery check function.

2. SPECIFICATIONS

2-1 General Specifications

ecilica	เบาอ
ACA	0 - 1000 ACA
	2 ranges (200 ACA, 1000 ACA)
DCA	0 - 1000 DCA
	2 ranges (200 DCA, 1000 DCA)
ACA	1 AC mV per 1 ACA.
DCA	1 DC mV per 1 DCA.
ACA fre	equency response is from 40 to
400 Hz	, specification be tested on sine
wave 5	50/60 Hz.
Hall eff	fect sensor.
Meet II	EC 1010.
006P, I	MN1604 (PP3) DC 9V battery or
equiva	lent, alkaline or heavy duty
battery	<i>1</i> .
Approx	15 mA
38 mm	(1.5 inch) Dia.
	ACA DCA ACA from the first term of the control of t

Operating	0蚓 to 50蚓 (32蚌 to 122蚌)
Temperature	
Operating	Less than 90% RH
Humidity	
Dimension	185 x 78 x 33 mm (7.2 x 3.1 x 1.3 inch)
Weight	340 g/75 Lb.
Accessory	Operation Manual 1 PC.
Include	

2-2 Electrical Specifications (23 5 C)

Function	Range	Accuracy	Overload Protection
DC	200 A	#(1.5% + 1 A)	AC/DC 1000 A
current	1000 A	#(2% + 5 A)	
AC	200 A	#(1.5% + 1 A)	AC/DC 1000 A
current	1000 A	#(2% + 5 A)	

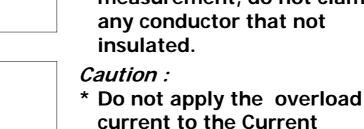
Remark: Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.

3. FRONT PANEL DESCRIPTION

Fig. 1

- 3-1 Current Sense Jaw
- 3-2 Trigger
- 3-3 DCA Zero Adjust Knob
- 3-4 Off/On/BAT. CHECK Switch
- 3-5 200 A/1000 A Range Switch
- 3-6 Output Plugs
- 3-7 Battery Compartment/Cover
- 3-8 Power Indicator

4. MEASURING PROCEDURE Caution: * Risk of electric shock! * When make the measurement, do not clamp



Sensing Jaw.

Power on the meter by slide the "Off/On/BAT. CHECK Switch " (3-4, Fig. 1) to the "On " position, the Power Indicator will light (3-8, Fig. 1).

4-1 AC current Measurement

- 1) Determine the highest anticipated ampere (1000 A or 200 A) on the "Range Switch" (3-5, Fig. 1).
- 2) Insert the "Output plugs (red or black) " (3-6, Fig. 1) to the input terminal of Digital Multimeter. Set the Multimeter to "AC 200 mV" or "AC 2V" range.
- 3) Press the "Trigger" (3-2, Fig. 1) to open the transformer jaws and clamp one conductor only, then read the display values from the Multimeter directly (Display: 1 AC mV per 1 ACA).

4-2 DC Current Measurement

- 1) Determine the highest anticipated ampere (1000 A or 200 A) on the "Range Switch" (3-5, Fig. 1).
- 2) Insert the "Output plugs (red or black) " (3-6, Fig. 1) to the input terminal of Digital Multimeter. Set the Multimeter to "DC 200 mV" or "DC 2V" range.

- 3) Adjust the "DCA Zero Adj. knob" (3-3, Fig. 1) until the display show "0"
- 4) Press the "Trigger" to open the transformer jaws and clamp one conductor only, then read the display values from the Multimeter (Display: 1 DC mV per 1 DCA).

Consideration:

As the jaw core may remain some magnetic force after using for a while. If the display can not reach " 0 " when adjusting " DCA ZERO KNOB ", please take following process to correct it:

- A. To change the direction of the measured DC current.
- or B. Open the JAWS several times.

5. MAINTENANCE



5-1 Battery Replacement

- 1) Place the "Off/On/BAT. CHECK Switch " (3-4, Fig. 1) to the "BAT CHECK "position. If the DMM show the value < 100 mV, it indicates the battery output less than 6.5 V 7.5 V & should change the battery.
- 2) Open the "Battery Cover" (3-7, Fig. 2) away from the instrument and remove the battery.
- 3) Install a 9 V battery (heavy duty) and replace the cover.

5-2 Cleaning	
	Caution: * Cleaning - Only use the dry cloth to clean the plastic case!
6. THE ADD CENTER	DRESS OF AFTER SERVICE