



Smart Clamp Meter with Non- contact Voltage Detection

AX-2040



Instruction Manual






1. Safety notes

- ⚠ Do not exceed the maximum allowable input range of any function.
- ⚠ Inspect the condition of the test leads and the meter itself for any damage before operating the meter.
- ⚠ Use great care when making measurements if the voltages are greater than 25VAC rms or 35VDC. These voltages are considered a shock hazard.

2. General Specifications

LCD display digits:	4000 digit large scale LCD readout
Measuring rate:	5 times / sec.
Over range display:	OL
Automatic power off time:	Approximately 15 minutes after power on.
Low battery indicator:	 is displayed. Replace the battery when the indicator appears in the display
Power requirement:	2 x 1,5V LR6 battery.

3. Environmental Conditions

Operating temperature:	
0°C ~ 30°C (≠80% RH)	
Storage temperature:	
-20 to +60°C, 0 to 80% RH (batteries not fitted).	
Overvoltage category:	IEC 61010-1 600V CAT.Ⅲ,
Conductor Size:	42mm diameter.
Pollution degree:	2





EMC: EN 61326-1

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

4. Electrical Specifications

Accuracy is $\pm(\% \text{ reading} + \text{number of digits})$ 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
ACV	4V - 600.0V	$\pm(1.2\% + 4\text{dgt})$
DCV	4V - 400.0V	$\pm(0.7\% + 4\text{dgt})$
	600.0V	$\pm(0.8\% + 5\text{dgt})$

Overload protection: 600 Vrms

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

Input impedance: $\square 4\text{K}$ for input voltage up to 30V. Impedance increase with input voltage to approximate 200K Ω at 600V.

Resistance

Function	Range	Accuracy
Ω	400 Ω -4M Ω	$\pm(0.8\% + 2)$
	40M Ω	$\pm(2.0\% + 5\text{dgt})$

Overload protection: 600V rms

Max. open circuit voltage: 1.5V





ACA

Function	Range	Accuracy
ACA (50-60Hz)	40.0-400.0A	$\pm(1.8\%+5)$

5. Using Save and Read Features

Under any measurement mode, press SAVE button to enter save mode with beep tone to indicate saving record is in process (number of records saved).

During measurement or AUTO mode, press READ button to exit the current measurement mode or AUTO mode and to display the last number of saved reading. Each presses to view the next saved reading, it is in first save last out bases. During READ mode, press RESET button to exit.

The maximum number of reading saved is 10.

6. Battery replacement

- ⤴ Remove the one rear head screw
- ⤴ Open the battery compartment
- ⤴ Replace the requires 2 x 1,5V LR6 battery
- ⤴ Re-assemble the meter

