

Data sheet

ICM A1

Clamp Meter

Feature:

- 6000 count large scale LCD display with backlit
- AC/DC current measuring capability up to 300Amps
- Automatically detect DCA/ACA with AC True RMS reading mode
- 10mA Resolution
- 1.5% basic DCA/ACA accuracy
- Inrush Current Measurement
- Smart Data Hold and Low Pass Filter
- DCA Zeroing
- Auto Power Off (20 min.)
- VoltSense TM feature (None contact voltage detecting)
- Battery door easy to replace battery
- Up to 25mm dia. Conductor size
- Shock proof from 4 feet drops
- CAT III 600V Safety Standard

Specifications:

- Accuracy is \pm (% reading + number of digits)
- Ambient temperature: $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ (< 80% RH)
- Position Error of Clamp: $\pm 1.5\%$ of LCD reading

DC Current:

Range	OL Reading	Resolution	Accuracy
60.00A(1)	66.00A	0.01A	$\pm(1.5\% + 10\text{D})$ (2)
300.0A	330.0A	0.1A	$\pm(1.5\% + 5\text{D})$

All specifications are valid from 5% to 100% of each range.

(1) There are less than 0.3A variation as measuring in different directions.

(2) Add 10D to accuracy in Auto AC & DC Sense Mode



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AC Current:

Range	OL Reading	Resolution	Accuracy (50Hz~100Hz)	Accuracy (100Hz~400Hz)
60.00A	66.00A	0.01A	$\pm(1.5\% + 5D)$	$\pm(2.5\% + 5D)$
300.0A	330.0A	0.1A	$\pm(1.5\% + 5D)$	$\pm(2.5\% + 5D)$

All specifications are valid from 5% to 100% of each range.

LCD displays 0 counts when the reading < 20 counts.

Frequency Response: 50 ~ 400Hz (Sine Wave)

ACA specifications are ac coupled, true R.M.S. The crest factor may be up to 3.0 as 4000 counts.

For non-sinusoidal waveforms, Additional Accuracy by Crest Factor (C.F.):

Add 3.0% for C.F. 1.0 ~ 2.0

Add 5.0% for C.F. 2.0 ~ 2.5

Add 7.0% for C.F. 2.5 ~ 3.0

Low-pass Filter:

Range	OL Reading	Resolution	Accuracy (50 ~ 60Hz)
60.00A	66.00A	0.01A	$\pm(3.5\% + 5D)$
300.0A	330.0A	0.1A	$\pm(3.5\% + 5D)$

All specifications are valid from 5% to 100% of each range.

LCD displays 0 counts when the reading < 20 counts.

Cut-off Frequency (-3dB): Approx. 160Hz

Attenuation Characteristic: Approx. -24dB / Oct

Inrush Current:

Range	OL Reading	Resolution
300.0A	330.0A	0.1A


Integration Time: 100ms

Trigger Current: 5.0

VoltSense:

Voltage Range: 80V ~ 600V (At the tip of the meter)

General:

Sampling Rate:	2 times/sec
Overload Indication:	"OL" or "-OL"
Low Battery Indication:	
Auto Power Off:	Approx. 20 minutes after last operation
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°C to 60°C, 0% RH to 80% RH (batteries not fitted)
Temperature Coefficient:	0.2 x (Specified accuracy) / °C, < 18°C, > 28°C .
Safety:	IEC 61010-1: CAT III 600V
Maximum Conductor Size	25mm dia.
Power Requirement:	LR44 or A76 x 2 pcs button cell
Battery Life: (Alkaline)	20 hours for 60.00A or 300.0A range only
Size:	60mm(W) x 147mm(L) x 31mm(D)
Weight:	Approx. 140g (with battery)
Accessories:	Button cells (installed), User Manual and Carrying Pouch