

# Data sheet

## ICM 30R

### Clamp Meter

#### FEATURE:

- True-RMS reading
- 4000 count digital display
- Autoranging
- Dual hall sensor
- Nickel-Steel alloy jaw mechanism
- AC/DC 300 Amps capability
- AC/DC 600 Volts capability
- 0.5% basic DCV accuracy
- 1.5% basic ACV accuracy
- 1.0% basic DCA/ACA accuracy
- 0.9% basic Ohms accuracy
- Continuity beeper
- 10mA resolution
- Auto-Zeroing key for DCA
- Data hold function
- MAX hold function
- Auto power off selectable
- 600V protection in every range
- Up to 22mm Dia. (350 MCM) conductor
- 4 feet drop proof
- Insulated input jacks
- Hand guard designed
- Deluxe carrying case
- CAT.III 300V/CAT.II 600V Safety standard

**SPECIFICATION:**(All at 23°C ±5°C, ≤80% R.H.)

#### AC Voltage

Range	Resolution	Accuracy	Over Voltage Protection
400.0mV	100μV	±(2%+5dgt) 50Hz~60Hz	600V rms
4.000V	1mV	±(1.5%+5dgt) 40Hz~300Hz	
40.00V	10mV	±(1.5%+5dgt) 40Hz~500Hz	
400.0V	100mV		
600V	1V		

**Input Impedance:** ≥9MΩ// less than 100pF

**Conversion Type:** Average sensing True RMS indicating  
The LCD displays 0 count when the reading ≤1mV

**DC Voltage**

Range	Resolution	Accuracy	Over Voltage Protection
400.0mV	100µV	±(0.5%+5dgt)	600V rms
4.000V	1mV	±(0.5%+2dgt)	
40.00V	10mV		
400.0V	100mV		
600V	1V		

**Input Impedance:** ≥ 9MΩ

**AC Current**

Range	Resolution	Accuracy	
		50Hz~60Hz	40Hz~1KHz
0A~4A	10mA	±(1%+5dgt)	±(2%+7dgt)
4A~40A	10mA	±(1%+3dgt)	±(2%+5dgt)
40A~200A	100mA		
200A~300A	100mA	±(3%+3dgt)	±(5%+5dgt)

**Conversion Type:** Average sensing True RMS indicating

**Overload Protection:** 400A rms

**DC Current**

Range	Resolution	Accuracy
0A~40A	10mA	±(1%+2dgt)
40A~200A	100mA	
200A~300A	100mA	±(2%+2dgt)

**Overload Protection:** 400A rms

**Resistance**

Range	Resolution	Accuracy
400.0Ω	100mΩ	±(1.2%+6dgt)
4.000KΩ	1Ω	±(0.9%+3dgt)
40.00KΩ	10Ω	
400.0KΩ	100Ω	±(1.2%+3dgt)
4.000MΩ	1KΩ	
40.00MΩ	10KΩ	±(2.5%+5dgt)

**Overload Protection:** 600V rms

**Continuity**

**Continuity Tester:** <50Ω approximate


**Indicator:** 2KHz tone buzzer

**Position Error:** ±1% of reading

**Type of Sensing:** Hall effect sensing for AC and DC

**General**

<b>Sampling Rate:</b>	2 times/sec
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<b>Overload Indication:</b>	“OL” or “-OL”
<b>Low Battery Indication:</b>	
<b>Auto Power Off:</b>	Approx. 30 minutes after last operation
<b>Operating Temperature:</b>	0°C~30°C (≤80% R.H.), 30°C~40°C (≤75% R.H.), 40°C~50°C (≤45% R.H.)
<b>Storage Temperature:</b>	-20°C~60°C
<b>Temperature Coefficient:</b>	0.2×(spec. Acc’y)/°C <18°C, >28°C
<b>Shock Proof:</b>	4 feet drops
<b>Safety:</b>	IEC 61010-1: CAT.III 300V, CAT.II 600V
<b>Maximum Conduct Size:</b>	22mm dia.
<b>Maximum Jaw Opening:</b>	25mm dia.
<b>Power Requirement:</b>	Two 1.5V Alkaline type AAA batteries
<b>Battery Life:</b>	100 hours(Alkaline)
<b>Size:</b>	66mm(W)×192mm(L)×27mm(H)
<b>Weight:</b>	205g
<b>Accessories:</b>	Battery (installed), Test Leads, Carrying Case and User Manual