

Data Sheet

ICM2009R

AC+DC TRMS Watt Clamp

FEATURES :

- AC+DC 400KW / 1200KW, auto-range
- DC 2500A, AC 2100A, AC/DC 600V
- Auto-range for A, V, KW, and °C or °F
- One touch zero for DCA, DCW adjustment
- Easy single rotary switch
- Continuity with buzzer
- Max/Min, Data Hold functions
- Resolution: 4000 counts

SPECIFICATIONS :

DC Current:

Range	Resolution	Accuracy (of rdg)	Overload Protection
400A	0.1A	$\pm 1.5\% \pm 3\text{dgts}$	DC 3000A
0 – 2000A	1A	$\pm 1.5\% \pm 3\text{dgts}$	DC 3000A
2000 – 2500A	1A	$\pm 2.0\% \pm 3\text{dgts}$	DC 3000A

AC Current: (True RMS, Crest Factor < 3)

Range	Resolution	Accuracy (of rdg)		Overload Protection
		50/60 Hz	40 - 1KHz	
400A	0.1A	$\pm 1.5\% \pm 5\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$	AC 3000A
0 – 1000A	1A	$\pm 2.0\% \pm 5\text{dgts}$	$\pm 2.5\% \pm 5\text{dgts}$	AC 3000A
1000 – 2100A	1A	$\pm 2.5\% \pm 5\text{dgts}$	$\pm 3.0\% \pm 5\text{dgts}$	AC 3000A

Current Analog Output:

Range	Output	Accuracy	Overload Protection
0 - 400A	1mV/A	$\pm 2.5\% \pm 0.5A$	600V AC
400 - 2100A	1mV/A	$\pm 2.5\% \pm 5A$	600V AC

AC+DC Power: (250V max., Auto-range and Manual)

Range	Resolution	Accuracy (of rdg)	Overload Protection
40KW	0.01KW	$\pm 2.5\% \pm 5\text{dgts}$	600V AC
400KW	0.1KW	$\pm 2.5\% \pm 5\text{dgts}$	600V AC



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SPECIFICATIONS :

AC+DC Power: (600V max., Auto-range and Manual)

Range	Resolution	Accuracy (of rdg)	Overload Protection
400KW	0.1KW	$\pm 2.5\% \pm 5\text{dgts}$	600V AC
1200KW	1KW	$\pm 2.5\% \pm 5\text{dgts}$	600V AC

DC Voltage: (Auto range & Manual, Overload Protection 800VAC for all ranges)

Range	Resolution	Accuracy (of rdg)	Input Impedance
400mV	0.1mV	$\pm 1.5\% \pm 3\text{dgts}$	10M Ω
4V	0.001V	$\pm 1.5\% \pm 3\text{dgts}$	5M Ω
40V	0.01V	$\pm 1.5\% \pm 3\text{dgts}$	5M Ω
400V	0.1V	$\pm 1.5\% \pm 3\text{dgts}$	5M Ω
600V	1V	$\pm 1.5\% \pm 3\text{dgts}$	5M Ω

AC Voltage: (TRMS, Crest Factor<3, Auto range & Manual, Overload Protection 800VAC)

Range	Resolution	Accuracy (of rdg)		Input Impedance
		50/60 Hz	40 - 1KHz	
400mV	0.1mV	-----	-----	-----
4V	0.001V	$\pm 1.5\% \pm 5\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$	5M Ω
40V	0.01V	$\pm 1.5\% \pm 5\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$	5M Ω
400V	0.1V	$\pm 1.5\% \pm 5\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$	5M Ω
600V	1V	$\pm 1.5\% \pm 5\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$	5M Ω



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SPECIFICATIONS :

Temperature °C (K-type Thermal Couple, Auto-range and Manual), or °F:

Range	Resolution	Accuracy	Overload Protection
-50 – 400°C	0.1°C	±1%±2°C	600V AC
-400 – 1000°C	1°C	±1%±2°C	600V AC
-50 – 400°F	0.1°F	±1%±3°F	600V AC
-400 – 1000°F	1°F	±1%±3°F	600V AC

Resistance (Ω) and Continuity: (open voltage 0.4V)

Range	Resolution	Accuracy	Beeping	OL Protection
40-400Ω	0.1Ω	±1.0%rdg±2dgts	< 40.0Ω	AC 600V

Conductor Size:	Cable Φ55mm. (approx.), Bus Bar 65 x 24mm
Battery Type:	9V
Display:	3 3/4 LCD with 40 seg. bargraph
Range Selection:	Auto and manual
Sampling Time:	2 times/sec. (display); 20 times/sec. (bargraph)
Overload Indication:	Left most digit blinks
Low battery Indication:	[B]
Operating Environment:	4°C to 50°C, less than 85% relative
Storage Environment:	-20°C to 60°C, less than 75% relative
Dimension:	271 x 112 x 46mm
Weight:	647g (battery included)



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