

# Data sheet

## ICM 36II

### Clamp Meter

#### FEATURE:

- 4000 count large scale LCD display
- Autoranging
- Dual hall sensor
- AC/DC 600 Amps capability
- AC/DC 600 Volts capability
- 40M Ohms Resistance range
- Continuity beeper
- Display hold
- Maximum hold
- Auto-Zeroing key for DCA
- Auto power off selectable
- 600 Volts circuit protection
- Insulated input jacks
- Up to 35mm Dia. (750 MCM) conductor
- Up to 40x15mm bus bar
- 4 feet drop proof
- Hand guard designed
- Deluxe carrying case
- CAT.III 600V/CAT.II 1000V Safety standard

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

#### AC Voltage

Range	Resolution	Accuracy	Over voltage protection
400.0mV	100μV	Unspecified	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 RMS indicating

#### DC Voltage

Range	Resolution	Accuracy	Over Voltage Protection
400.0mV	100μV	±(0.7%+2dgt)	600V rms
4.000V	1mV		
40.00V	10mV		
400.0V	100mV		
600V	1V		

**Input Impedance:**  $\geq 9M\Omega$

## AC Current

Range	Resolution	Accuracy	
		50Hz~60Hz	61Hz~400Hz
0A~40A	0.1A	$\pm(1.9\%+7\text{dgt})$	$\pm(2.5\%+7\text{dgt})$
40A~400A	0.1A	$\pm(1.9\%+5\text{dgt})$	$\pm(2.5\%+5\text{dgt})$
400A~600A	1A	$\pm(1.9\%+10\text{dgt})$	$\pm(2.5\%+10\text{dgt})$

**Overload Protection:** 600A rms

**Conversion Type:** Average sensing RMS indicating

## DC Current

Range	Resolution	Accuracy 50Hz~60Hz
0A~40A	0.1A	$\pm(1.5\%+10\text{dgt})$
40A~400A	0.1A	$\pm(1.5\%+7\text{dgt})$
400A~600A	1A	$\pm(1.9\%+10\text{dgt})$

## Resistance

Range	Resolution	Accuracy
400.0 $\Omega$	100m $\Omega$	$\pm(1.2\%+6\text{dgt})$
4.000K $\Omega$	1 $\Omega$	$\pm(0.9\%+3\text{dgt})$
40.00K $\Omega$	10 $\Omega$	
400.0K $\Omega$	100 $\Omega$	$\pm(1.2\%+3\text{dgt})$
4.000M $\Omega$	1K $\Omega$	
40.00M $\Omega$	10K $\Omega$	$\pm(2.5\%+5\text{dgt})$

**Overload Protection:** 600V rms

## Continuity


**Continuity Tester:** <50 $\Omega$  approximate

**Indicator:** 2KHz tone buzzer

**Position Error:**  $\pm 1\%$ rdg

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

## General

<b>Sampling Rate:</b>	2 times/sec
<b>Overload Indication:</b>	OL is displayed
<b>Low Battery Indication:</b>	
<b>Auto Power Off:</b>	Approx. 30 minutes after last operation
<b>Operating Temperature:</b>	0 $^{\circ}\text{C}$ ~30 $^{\circ}\text{C}$ ( $\leq 80\%$ R.H.), 30 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$ ( $\leq 75\%$ R.H.), 40 $^{\circ}\text{C}$ ~50 $^{\circ}\text{C}$ ( $\leq 45\%$ R.H.)
<b>Storage Temperature:</b>	-20 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$
<b>Temperature Coefficient:</b>	0.2 $\times$ (spec. Acc'y)/ $^{\circ}\text{C}$ <18 $^{\circ}\text{C}$ , >28 $^{\circ}\text{C}$
<b>Shock Proof:</b>	4 feet drops
<b>Safety:</b>	IEC 61010-1: CAT.III 600V, CAT.II 1000V
<b>Maximum Conduct Size:</b>	35mm dia.
<b>Maximum Jaw Opening:</b>	45mm dia.
<b>Maximum Busbar Size:</b>	40 $\times$ 15mm
<b>Power Requirement:</b>	Single 9V battery (NEDA 1604 or IEC 6F22)
<b>Battery Life:</b>	150hours(Alkaline)
<b>Size:</b>	82mm(W) $\times$ 208mm(L) $\times$ 41mm(H)

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<b>Weight:</b>	360g
<b>Accessories:</b>	Battery (installed), Test Leads, Carrying Case and User Manual