

FEATURES

- 3 digit LCD display (maximum reading 3999)
- NCV function (Non-contact voltage detection)
- Jaw opening suitable for cables 25.4 mm diameter
- Data hold function
- Auto power off (30 minutes)
- Auto ranging
- Over-range indication ("OL")
- Operates on 2 x AA batteries (approx 100 hour life)
- Low battery indication
- Dimensions 192 x 64 x 31 mm
- Weight 250 g approximately

RS PRO Clamp Meter- ICM3091N Multifunction Clamp Meter

RS Stock No.: 123-2242



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO ICM 3091N AC Clamp Meter, 400 A

RS PRO ICM3091N is a great value auto-ranging AC clamp meter which features a 3 digit LCD display and non-contact voltage detection. This meter is ideal for measuring a range of electrical parameters including AC Current, AC Voltage, Continuity Beeper, DC Voltage and Resistance.

General Specifications

Product Range	Clamp Meter
Model Number	ICM3091N
Clamp Meter Type	Multifunction Clamp
Functions Measured	AC Current, AC Voltage, Continuity Beeper, DC Voltage, Resistance
Display Type	3-3/4 Digital LCD, 4000 count
Overload Protection	Yes
Non-Contact Voltage Detector	Yes
Auto Range Function	Yes
Data Hold	Yes
Auto power OFF	Yes
Applications	Commercial/ Residential electricians

Measurement

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	400A ac	$\pm(2\% \text{ rdg} + 10\text{dgts})$	10mA
Absolute Voltage (AC)	600V ac	$\pm(1.5\% \text{ rdg} + 10\text{dgts})$	100mV
Absolute Voltage (DC)	600V dc	$\pm(1\% \text{ rdg} + 5\text{dgts})$	100mV
Absolute Resistance	400 Ω	$\pm 1\% + 5 \text{ Digits}$	100m Ω

Electrical Specifications

Power Source	Battery
Battery Type	AA
Battery Life	100 h
Safety Category Level and Voltage	CAT III 600 V

Mechanical Specifications

Jaw Capacity (Busbars)	25.4mm
Maximum Conductor Size	51mm
Dimensions	192 x 64 x 31 mm
Width	31mm
Length	64mm
Height	192mm
Weight	250g

Operation Environment Specifications

Operating Temperature Range	0 to 40°C (32 to 104°F) below 80%RH.
Storage Temperature Range	-10 to 60°C (14 to 140°F) below 70%RH.

Approvals

Compliance/Certifications	IEC1010-1, IEC 1010-2-032
Declarations	RoHS Certificate of Compliance

Accessories Includes

Item Name	Qty
Carry case	1
AA batteries	2
User manual	1
Test lead	1

Similar Products

Stock No.	RS# 123-1984	RS# 123-3222	RS#123-3229	RS# 123-3233
Model Number	RS330	ICM136R	ICM135R	ICMA7-4
Clamp Meter Type	AC/DC Clamp Meter	Multifunction Clamp	Multifunction Clamp	Multifunction Clamp
Clamping Diameter	Opening 0.9" (23mm) approx			
Functions Measured	AC Current, AC Voltage, Continuity, DC Voltage, Diode Test, Resistance	AC Current, AC Voltage, Continuity, DC Current, DC Voltage, Diode Test, Frequency, Resistance	AC Current, AC Voltage, Continuity, DC Voltage, Diode Test, Frequency, Resistance	AC Current, AC Voltage, Continuity, DC Voltage, Diode Test, Resistance
Display Type	LCD	LCD	LCD	

Sampling Rate		1.5 times/sec	1.5 times/sec	2.5 times/sec
Absolute Current (AC)	400A ac	600A ac	600A ac	200A ac
Absolute Current (DC)	600V dc	600A dc		
Absolute Voltage (AC)	600V ac	600V ac	600V ac	600V ac
Absolute Voltage (DC)	600V dc	600V dc	600V dc	600V dc
Continuity Threshold	Threshold <120Ω; Test current < 1mA			
Diode Test	Test current of 0.3mA typical; Open circuit voltage 1.5V DC typical.	Yes	Yes	Yes
Frequency Range			20Hz~400Hz	
Temperature coefficient			0.2× (spec. Acc'y)/°C <18°C, >28°C	0.2 x (Specified accuracy) / °C, < 18°C, > 28°C

ELECTRICAL SPECIFICATIONS

□ AC Current (Auto Range)

Range	Resolution	Accuracy	Frequency Range	Overload protection
40A	0.01A	±(2%rdg + 10dpts)	50 / 60Hz	660Arms
400A	0.1A			

□ DC Voltage (Auto Range)

Range	Resolution	Accuracy	Input Impedance	Overload protection
400V	0.1V	±(1%rdg +5dpts)	1MΩ	660Vrms
600V	1V			


□ AC Voltage (Auto Range)

Range	Resolution	Accuracy	Frequency Range	Input Impedance	Overload protection
400V	0.1V	±(1.5%rdg +10dpts)	50 to 60Hz	1MΩ	660Vrms
600V	1V				
400V	0.1V	±(3%rdg +15dpts)	400Hz		
600V	1V				


□ Ohms (Resistance)

Range	Resolution	Accuracy	Overload protection
400Ω	0.1Ω	±(1%rdg+5dpts)	660Vrms

□ Continuity beeper

Range	Sound Level	Max Open Circuit Voltage	Overload protection
	≤ 60 dB	0.4	660Vrms

GENERAL SPECIFICATIONS

Numerical Display	3-3/4 digit liquid crystal display (LCD) maximum reading 3999.
Over Range Indication	LCD will show an "OL".
Low Battery Indication	The  is displayed when the battery voltage drops below the operating voltage
Power Source	Two 1.5V, AA battery
Auto power off	30 minute
Battery Life	Approx. 100hr
Operating Temperature and Humidity	0 to 40°C (32 to 104°F) below 80%RH.
Storage Temperature and Humidity	-10 to 60°C (14 to 140°F) below 70%RH.
Dimensions	192×64×31mm
Weight	Approx. 250 g
Jaw Opening Diameter	Cables 25.4 mm
Accessories	Carrying case, Battery & Instruction Manual, Test Lead.