

FEATURES

- Large 4000 count 3 digit LCD with analog bar graph
- 40 mA, 400 mA, 4 A, 40 A, 60 A measuring ranges
- 10 μ A high resolution
- 30 mm diameter conductor jaw capacity
- 400 Vac voltage range
- 400 Ω resistance and continuity range with beeper below 40 Ω
- Auto power off selectable
- Max/Min Data Hold functions
- Zero/relative value function
- Easy single rotary switch
- Dimensions 210 x 62 x 35.6 mm
- Weight 200 g (battery included)

RS PRO Clamp Meter- ILCM03A Leakage Current Clamp Meter

RS Stock No.: 123-2204



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 Leakage Current Clamp meter ILCM 03

From the trusted RS PRO brand, the ILCM 03 is a great value leakage current clamp designed for safe, non-intrusive AC current measurement upto 60 A. It offers five ranges, with high resolution 10 μ A on the 40 mA range. Features include fast bar graph display of up to 30 times/second.

General Specifications

Product Range	Clamp Meter
Model Number	ILCM03A
Clamp Meter Type	Leakage Current Clamp
Functions Measured	AC Current, AC Voltage, Resistance
Display Type	LCD
Number of Display Digits	Large 3 3/4 digits LCD
Overload Protection	Yes
Data Hold	Yes
Auto power OFF	Yes
Applications	Commercial/ Residential electricians

Measurement

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	60A ac	$\pm(1\% \text{ rdg} + 3\text{dgts})$	10 μ A
Absolute Voltage (AC)	400V ac	$\pm(1.5\% \text{ rdg} + 2\text{dgts})$	100mV
Absolute Voltage (DC)			100mV
Absolute Resistance	400 Ω	$\pm 1\% \pm 2 \text{ Digits}$	100m Ω

Electrical Specifications

Power Source	Battery
Battery Type	1.5 V

Mechanical Specifications

Jaw Capacity (Busbars)	30mm
Maximum Conductor Size	30mm
Dimensions	62 x 35.6 x 210mm
Width	35.6mm
Length	62mm
Height	210mm

Weight	200g
--------	------

Operation Environment Specifications

Operating Temperature Range	-10°C to 50°C, less than 85% relative
Storage Temperature Range	-20°C to 60°C, less than 75% relative

Approvals

Declarations	RoHS Certificate of Compliance
--------------	--------------------------------

Accessories Includes

Item Name	Qty
Carrying case	1
User manual	1
1.5 V batteries	2
Test lead set	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			$0.2 \times (\text{spec. Acc 'y}) / ^\circ\text{C} < 18^\circ\text{C}, > 28^\circ\text{C}$	$0.2 \times (\text{Specified accuracy}) / ^\circ\text{C}, < 18^\circ\text{C}, > 28^\circ\text{C}$
-------------------------	--	--	--	---

SPECIFICATIONS :**AC Current:**

Range	Resolution	Accuracy	
		50/60 Hz	Wide (40 - 1KHz)
40mA	10 μ A	$\pm 1.0\% \pm 3\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$
400mA	100 μ A	$\pm 1.0\% \pm 3\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$
4A	1mA	$\pm 1.0\% \pm 3\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$
40A	10mA	$\pm 1.0\% \pm 3\text{dgts}$	$\pm 2.0\% \pm 5\text{dgts}$
60A(0-50A)	100mA	$\pm 1.5\% \pm 3\text{dgts}$	$\pm 3.0\% \pm 5\text{dgts}$
60A(50 - 60A)	100mA	$\pm 3.0\% \pm 5\text{dgts}$	$\pm 3.5\% \pm 5\text{dgts}$

AC Voltage: (Input Impedance: 10M Ω)

Range	Resolution	Accuracy		Overload Protection
		50/60 Hz	40 - 1KHz	
400V	0.1V	$\pm 1.5\% \pm 2\text{dgts}$	$\pm 2.0\% \pm 4\text{dgts}$	AC 800V

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

Range	Resolution	Accuracy	Beeping	OL Protection
40-400 Ω	0.1 Ω	$\pm 1.0\% \pm 2\text{dgts}$	< 38.0 Ω	AC 600V

Conductor Size:	30mm max. (approx.)
Battery Type:	two 1.5V SUM-3
Display:	3 3/4 LCD with 40 seg. bargraph
Range Selection:	Manual
Overload Indication:	OL
Power Consumption:	15 mA (approx.)
Sampling Time:	3 times/sec. (display); 30 times/sec. (bargraph)
Operating Environment:	-10 $^\circ\text{C}$ to 50 $^\circ\text{C}$, less than 85% relative
Storage Environment:	-20 $^\circ\text{C}$ to 60 $^\circ\text{C}$, less than 75% relative
Dimension:	210 x 62 x 35.6mm
Weight:	200g (battery included)