

FEATURES

- 400 A AC Current
 Measurement
- 2000 Counts LCD display
- Auto power off
- Low battery indicator
- Non-contact voltage detection
- Resistance measurement, test measurement, Continuity and diode check
- Overvoltage Category III 600 V

RS PRO Clamp Meter-RS380 Multifunction Clamp Meter

RS Stock No.: 123-1935



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 RS380 Compact AC Auto-ranging Clamp Meter

A clamp meter is an electrical test tool that combines a basic digital multimeter with a current sensor. Clamps measure current such as AC current, AC and DC voltage, resistance, continuity, and, with some models, DC current, capacitance, temperature, frequency and more. Due to the hinged jaw, this tool allows the user to clamp the jaws around a wire, cable or other conductor at any point in an electrical system, then measure the current without disconnecting it.

General Specifications

Product Range	Clamp Meter
Model Number	RS380
Clamp Meter Type	Multifunction Clamp
Functions Measured	AC Current, AC Voltage, Continuity, DC Voltage, Diode Test, Resistance, Temperature
Display Type	LCD
Number of Display Digits	2000 LCD display counts
True RMS	Yes
Non-Contact Voltage Detector	Yes
Data Hold	Yes
Auto power OFF	Yes
Applications	Commercial/ Residential electricians

Measurement

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	400A ac	±(2.5% rdg + 5dgts)	10mA
Absolute Voltage (AC)	600V ac	±(1.5% rdg + 8dgts)	100µV
Absolute Voltage (DC)	600V dc	±(1.5% rdg + 2dgts)	100µV
Continuity Threshold	Threshold <150Ω; Test current < 0.5mA		
Diode Test	Test current of 0.3mA typical Open circuit voltage 1.5V DC typical		
Absolute Resistance	20ΜΩ	±1% ± 4 Digits	100mΩ
Absolute Temperature	(- 20.0°Cto760.0°C)	±(3.0% ±5°C)	1 °C

Electrical Specifications

Power Source	Battery
Battery Type	AAA
Safety Category Level and Voltage	CAT III 600 V

Clamp Meter



Mechanical Specifications

Clamping Size	Opening 1.2" (30mm) approx		
Jaw Capacity (Busbars)	23mm		
Dimensions	82 x 40 x 230mm		
Width	40mm		
Length	82mm		
Height	230mm		
Weight	230g		

Operation Environment Specifications

Operating Altitude	7000ft. (2000meters) maximum
Storage Humidity	<80%
Operating Temperature Range	41 to 104°F (5 to 40°C)
Storage Temperature Range	-4 to 140°F (-20 to 60°C)

Approvals

Declarations

RoHS Certificate of Compliance

Accessories Includes

Item Name	Qty
Test leads	1
Carrying case	1
temperature probe	1
AAA 1.5 V batteries	2
user manual	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

Clamp Meter



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)/℃ <18℃, >28℃	0.2 x (Specified accuracy) / °C, < 18°C, > 28°C

SPECIFICATIONS

Function	Range	Accuracy (% of reading+ digits)	Resolution
	200 mV	$\pm (1.5\% + 2d)$	0.1mV
	2V	$\pm (1.5\% + 2d)$	1mV
DC Voltage	20V	$\pm (1.5\% + 2d)$	10mV
	200V	$\pm (1.5\% + 2d)$	100 mV
	600V	$\pm (2\% + 2d)$	1V

Input Impedance:10MΩ Over range protection:600V



Function	Range	Accuracy (% of reading+ digits)	Resolution
	200mV	$\pm (1.5\% + 10d)$	0.1mV
	2V	$\pm (1.5\% + 8d)$	1mV
AC Voltage	20V	$\pm (1.5\% + 8d)$	10mV
	200V	$\pm (1.5\% + 8d)$	100 mV
	600V	$\pm (2.5\% + 8d)$	1V

Input Impedance: 10MΩ Over range protection:600V Frequency Response:50Hz~400Hz

Function	Range	Accuracy (% of reading+ digits)	Resolution
	20A	$\pm (2.5\% + 5d)$	10mA
AC Current	200A	$\pm (2.5\% + 5d)$	100mA
	400A	$\pm (3\% + 5d)$	1A

Over range protection: Maximum input 400A Frequency Response:50Hz~60Hz

Function	Range	Accuracy (% of reading+ digits)	Resolution
Resistance	200Ω	$\pm (1.0\% + 4d)$	0.1Ω
	2kΩ	$\pm (1.5\% + 4d)$	1Ω
	20kΩ	$\pm (1.5\% + 4d)$	10Ω
	200kΩ	$\pm (1.5\% + 4d)$	100Ω
	2MΩ	$\pm (2.5\% + 4d)$	1k
	20ΜΩ	$\pm (3.5\% + 4d)$	10k

Over range protection:250V rms

Function	Range	Accuracy (% of reading+ digits)	Resolution
Tomporatura	(-4 F to1400 F)	±(3% ±8 F)	1°F
Temperature	(-20.0°Cto760.0°C)	±(3.0% ±5°C)	1 °C

Sensor: K Type banana plug



Function	Testing Condition	Reading
Diode	Forward DCA is	Forward
	approx.0.3mA,backward	voltage drop of
	Voltage is approx. 1.5V	Diode
	Open voltage is	Buzzer makes
	appprox.0.5V	a long sound,
Continuity		While
		resistance is
		less
		than(150Ω)

Over range protection:250V rms

General Specifications

Clamp size Opening 1.2" (30mm) approx **Diode Test** Test current of 0.3mA typical Open circuit voltage 1.5V DC typical Threshold <150 Ω ; Test current < 0.5mA **Continuity Check** " 🔋 " is displayed Low Battery Indication "OL"" is displayed **Overrange Indication** Measurements Rate 2 per second, nominal Input Impedance 10M Ω (VDC and VAC) Display 2000 counts LCD AC Current 50-60Hz (AAC) AC Voltage bandwidth 50-60Hz (VAC) **Operating Temperature** 41 to 104°F (5 to 40°C) **Storage Temperature** -4 to 140°F (-20 to 60°C) **Operating Humidity** Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F(40°C)



Storage Humidity Operating Altitude Over voltage Battery Auto OFF Dimensions/Weight Safety

<80% 7000ft. (2000meters) maximum Category III 600V 2 x 1.5V AAA Batteries Approx. 15 minutes 197x70x40mm/183g Indoor use only Pollution Degree 2 Installation Category III

Accessories:

Test leads, gift box with carrying case, Temperature probe, User manual and Two"AAA" 1.5V batteries.