

## FEATURES

- 2000 Count large-scale LCD display
- AC 600 Amps capability
- AC 600 V capability
- 2000  $\Omega$  Resistance range
- True RMS ACV/ACA
- Continuity Beeper
- Display Hold
- Auto power off
- 600 V circuit protection
- Insulated input jacks
- Up to 34 mm dia. (750 MCM) conductor
- 4 ft drop proof
- Protective carrying case
- Hand guard designed
- CAT. III 600 V/CAT. II 1000 V Safety Standard

# RS PRO Clamp Meter - RS330 Multifunction Clamp Meter

RS Stock No.: 1231936



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 RS330 Mini AC Autoranging Clamp Meter

From the trusted RS PRO brand, the RS330 is a great value clamp meter designed to verify the presence of load current, voltage and resistance. Its small body and jaws fit beautifully into the hand. Features include a large, easy-to-read, backlit display.

Battery-powered for maximum portability, this multifunction current clamp meter is ideal for on-the-go applications in almost any environment.

It is also supplied in a carry case to keep the clampmeter safe and secure during transit.

## General Specifications

<b>Model Number</b>	RS330
<b>Clamp Meter Type</b>	Multifunction Clamp
<b>Functions Measured</b>	AC Current, AC Voltage, Continuity, DC Voltage, Diode Test, Resistance
<b>Number of Display Digits</b>	2000 LCD display counts
<b>Overload Protection</b>	600 V circuit protection
<b>True RMS</b>	Yes
<b>Data Hold</b>	Yes
<b>Auto power OFF</b>	Yes
<b>Applications</b>	ideal for on-the-go applications in almost any environment

## Measurement

Parameter	Range	Accuracy	Resolution
<b>Absolute Current (AC)</b>	400A ac	$\pm (2\% \text{ rdg} + 4\text{dgts})$	1mA
<b>Absolute Voltage (AC)</b>	600V ac	$\pm (1.5\% \text{ rdg} + 3\text{dgts})$	
<b>Absolute Voltage (DC)</b>	600V dc	$\pm (1.2\% \text{ rdg} + 3\text{dgts})$	100 $\mu$ V
<b>Absolute Resistance</b>	20M $\Omega$	$\pm 3\% + 5 \text{ Digits}$	100 $\mu$ V

## Electrical Specifications

<b>Power Source</b>	Battery
<b>Battery Type</b>	AAA
<b>Safety Category Level and Voltage</b>	CAT. III 600 V/CAT. II 1000 V

### Mechanical Specifications

<b>Jaw Capacity (Busbars)</b>	23mm
<b>Maximum Conductor Size</b>	23mm
<b>Dimensions</b>	70 x 37 x 205mm
<b>Width</b>	37mm
<b>Length</b>	70mm
<b>Height</b>	205mm
<b>Weight</b>	200g

### Operation Environment Specifications

<b>Altitude</b>	Operating: 3000m; Storage 10,000m
<b>Relative Humidity</b>	90%(0°C to 30°C); 75%(30°C to 40°C); 45% (40°C to 50°C)
<b>Operating Temperature Range</b>	14 to 122°F (-10 to 50°C)
<b>Storage Temperature Range</b>	-14 to 140°F (-30 to 60°C)

### Approvals

<b>Declarations</b>	RoHS Certificate of Compliance
---------------------	--------------------------------

### Accessories Includes

Item Name	Qty
User Manual	1
Gift box with carrying case	1
Test leads	1
"AAA" 1.5V batteries	2

### Similar Products

Stock No.	RS#1233228	RS#1233230	RS#1233252	RS#1233231
<b>Model Number</b>	<b>ICM134</b>	<b>ICM20</b>	ICM30R	ICM33II
<b>Clamp Meter Type</b>	Multifunction Clamp	Current Clamp	Multifunction Clamp	Multifunction Clamp
<b>Functions Measured</b>	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Resistance, Temperature	AC Current, Continuity, Diode Test		
<b>Display Type</b>	LCD	LCD	LCD	LCD
<b>Sampling Rate</b>	1.5 times/sec	2.5 times/sec	2.5 times/sec	4 times/sec
<b>Absolute Current (AC)</b>	600A ac	400A ac	300A ac	600A ac
<b>Absolute Current (DC)</b>	4mA dc		300A dc	
<b>Absolute Voltage (AC)</b>	750V ac		600V ac	600V ac
<b>Absolute Voltage (DC)</b>	1000V dc		600V dc	
<b>Temperature coefficient</b>	0.2×(spec. Acc'y)/°C 28°C	0° C ~ 30° C (≅ 80% RH) 30° C ~ 40° C (≅ 75% RH) 40° C ~ 50° C (≅ 45%RH)	0.2×(spec. Acc'y)/°C <18°C, >28°C	0° C ~30° C (≅ 80% R.H.), 30° C ~40° C (≅ 75% R.H.), 40° C ~50° C (≅ 45% R.H.)

### Specifications

Function	Range & Resolution	Accuracy (% of reading)
AC Current	2.000 AAC	± (2.5% + 10 digits)
	20.00 AAC	± (2.5% + 4 digits)
	200.0 AAC	
	400 AAC	± (3.0% + 4 digits)
DC Voltage	200.0 mVDC	± (0.5% + 5 digits)
	2.000 VDC	± (1.2% + 3 digits)
	20.00 VDC	
	200.0 VDC	
	600 VDC	± (1.5% + 3 digits)
AC Voltage	200.0 mVAC	± (1.5% + 30 digits)
	2.000 VAC	± (1.5% + 3 digits)
	20.00 VAC	
	200.0 VAC	
	600 VAC	± (2.0% + 4 digits)

Resistance	200.0 $\Omega$	$\pm$
	2.000K $\Omega$	$\pm$ (1.5% + 2 digits)
	20.00K $\Omega$	
	200.0K $\Omega$	
	2.000M $\Omega$	$\pm$ (2.0% + 3 digits)
	20.00M $\Omega$	$\pm$ (3.0% + 5 digits)

Note: No Autoranging on the 200mV AC Voltage Range.

<b>Clamp size</b>	Opening 0.9" (23mm) approx
<b>Diode Test</b>	Test current of 0.3mA typical; Open circuit voltage 1.5V DC typical.
<b>Continuity Check</b>	Threshold <120 $\Omega$ ; Test current <
<b>Low Battery Indication</b>	1mA " BAT" is displayed
<b>Overrange Indication</b>	"OL " is displayed
<b>Measurements Rate</b>	2 per second, nominal
<b>Input Impedance</b>	7.8M $\Omega$ (VDC and VAC)
<b>Display</b>	3-1/2 digits (2000 counts)
<b>AC Current bandwidth</b>	LCD 50/60Hz (AAC)
<b>AC Voltage bandwidth</b>	50/400Hz (VAC)
<b>Operating Temperature</b>	14 to 122°F (-10 to 50°C)
<b>Storage Temperature</b>	-14 to 140°F (-30 to 60°C)
<b>Relative Humidity</b>	90%(0°C to 30°C); 75%(30°C to 40°C); 45% (40°C to 50°C)
<b>Altitude</b>	Operating: 3000m; Storage 10,000m
<b>Over voltage</b>	Category III 600V
<b>Battery</b>	2 x 1.5V "AAA"
<b>Auto OFF</b>	batteries. approx. 15
<b>Dimensions/Weight</b>	minutes
<b>Safety</b>	200x50x35mm/200g
	Indoor use only
	Pollution Degree 2
	Installation Category
	III

#### Accessories:

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