

## FEATURES

- True-RMS reading
- 4000 Count digital display
- Auto-ranging
- Dual hall sensor
- Nickel-Steel alloy jaw mechanism
- AC-DC 300 A
- AC-DC 600 V
- 0.5% basic DC Voltage accuracy
- 1.5% basic AC Voltage accuracy
- 1.0% basic DC A / AC A accuracy
- 0.9% basic Ohms accuracy
- Continuity beeper
- 10 mA resolution
- Auto-Zeroing key for DC Amps
- Data hold function
- MAX hold function
- Auto power off selectable
- 600 V protection in every range
- Up to 22 mm Diameter conductor
- Insulated input jacks
- Hand guard designed
- Power Requirement: Alkaline AAA size 1.5 V x 2

# RS PRO Clamp Meter -ICM30R Multifunction Clamp Meter

**RS Stock No.: 1233252** 



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 ICM30R AC-DC Current Clamp Multimeter**

From RS PRO, this ICM30R clamp meter is a high performing solution for current measurement. The multifunction clampmeter utilises Hall Effect technology and nickel steel alloy jaws for precise measurement of ac and dc current up to 300 A.

It functions as a multimeter and analyzer with a clamp that is ideal for multifunctions including current and voltage measurements.

Battery-powered for maximum portability, and with a large backlit screen, this 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	
Ma dal Number	
Model Number	ICM30R
Clamp Meter Type	Multifunction Clamp
Display Type	LCD
Number of Display Digits	2000 digit large scale LCD readout
Sampling Rate	2.5 times/sec
<b>Overload Protection</b>	Yes 600V rms
True RMS	Yes
Auto power OFF	Yes Approx. 10 minutes after last operation
Temperature coefficient	0.2×(spec. Acc'y)/ °C <18°C, >28°C
Applications	Used for measuring high levels of current in service and maintenance applications. It can also be used when installing electrical equipment.

### Measurement

			1
Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	300A ac	±(1% rdg + 3dgts)	10mA
Absolute Current (DC)	300A dc	$\pm$ (1% rdg + 2dgts)	10mA
Absolute Voltage (AC)	600V ac	$\pm$ (1.5% rdg + 5dgts)	100µV
Absolute Voltage (DC)	600V dc	$\pm$ (0.5% rdg + 2dgts)	100µV
Diode Test	-3.1V max		
Absolute Resistance	40ΜΩ	+ 5 Digits; ±2.5%	1kΩ
Absolute Temperature	0°C to +50°C		



### **Electrical Specifications**

Power Source	Battery
Battery Type	ААА
Battery Life	60 h
Safety Category Level and Voltage	CAT III 300V

### **Mechanical Specifications**

Jaw Capacity (Busbars)	22mm
Maximum Conductor Size	22 (Dia.)mm
Dimensions	192 x 66 x 27mm
Width	66mm
Length	192mm
Height	27mm
Weight	205g

### **Operation Environment Specifications**

Altitude	2000 Meter
Relative Humidity	0° C ~30° C (≦80% R.H.), 30° C ~40° C (≦75% R.H.), 40° C ~50° C (≦45% R.H.)
Operating Temperature Range	0° C ~30° C (≦80% R.H.), 30° C ~40° C (≦75% R.H.), 40° C ~50° C (≦45% R.H.)
Storage Temperature Range	-20 to +60°C

### Approvals

Compliance/Certifications	IEC 61010-1
Declarations	RoHS Certificate of Compliance

### **Accessories Includes**

Item Name	Qty
Battery (installed)	1
Test Leads	1
Carrying Case	1
Carrying Case User Manual	1



### Similar Products

Stock No.	RS#1233228	RS#1233230	RS#1233252	RS#1233231
Model Number	ICM134	ICM20	ICM30R	ICM33II
Clamp Meter Type	Multifunction Clamp	Current Clamp	Multifunction Clamp	Multifunction Clamp
Functions Measured	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Resistance, Temperature	AC Current, Continuity, Diode Test		
Display Type	LCD	LCD	LCD	LCD
Sampling Rate	1.5 times/sec	2.5 times/sec	2.5 times/sec	4 times/sec
Absolute Current (AC)	600A ac	400A ac	300A ac	600A ac
Absolute Current (DC)	4mA dc		300A dc	
Absolute Voltage (AC)	750V ac		600V ac	600V ac
Absolute Voltage (DC)	1000V dc		600V dc	
Temperature coefficient	0.2×(spec. Acc' y)/℃ 28℃	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:(All at 23°C±5°C, ≤80% R.H.)

#### AC Voltage

Range	Resolution	Accuracy	<b>Over Voltage Protection</b>	
400.0mV	100µV	±(2%+5dgt)		
400.0mv	τούμν	50Hz-60Hz		
4.000V	4.000V lmV	±(1.5%+5dgt)	600V rms	
4.000 v In	Imv	40Hz~300Hz		
40.00V	10mV	1 (1.59( 1.54-4)		
400.0V	100mV	±(1.5%+5dgt) 40Hz~500Hz		
600V	1V	40H2~300H2		

Input Impedance: ≧9MΩ// less than 100pF

Conversion Type: Average sensing True RMS indicating

The LCD displays 0 count when the reading ≦1mV

### DC Voltage

Range	Resolution	Accuracy	<b>Over Voltage Protection</b>
400.0mV	100µV	±(0.5%+5dgt)	
4.000V	lmV		
40.00V	10mV		600V rms
400.0V	100mV	±(0.5%+2dgt)	
600V	1V		

Input Impedance:  $\geq 9M\Omega$ 

### AC Current

D	D. L.C.	Accuracy	
Range	Resolution	50Hz~60Hz	40Hz~1KHz
0A4A	10mA	±(1%+5dgt)	±(2%+7dgt)
4A~40A	10mA	+(10(+2.det)	(20/154-4)
40A~200A	100mA	±(1%+3dgt)	±(2%+5dgt)
200A~300A	100mA	±(3%+3dgt)	±(5%+5dgt)

Conversion Type: Average sensing True RMS indicating

Overload Protection: 400A rms

#### DC Current

Range	Resolution	Accuracy
0A~40A	10mA	+(19(+2dat)
40A~200A	100mA	±(1%+2dgt)
200A~300A	100mA	±(2%+2dgt)

Overload Protection: 400A rms



### Resistance

Range	Resolution	Accuracy
400.0Ω	100mΩ	±(1.2%+6dgt)
4.000ΚΩ	1Ω	±(0.9%+3dgt)
40.00ΚΩ	10Ω	
400.0KΩ	100Ω	±(1.2%+3dgt)
4.000ΜΩ	1ΚΩ	
40.00ΜΩ	10KΩ	±(2.5%+5dgt)

Overload Protection: 600V rms

#### Continuity

Continuity Tester: <50Ω approximate

Indicator: 2KHz tone buzzer

Position Error: ±1% of reading

Type of Sensing: Hall effect sensing for AC and DC

#### General

Sampling Rate:	2 times/sec	
Overload Indication:	"OL" or "-OL"	
Low Battery Indication:	ŧ	
Auto Power Off:	Approx. 30 minutes after last operation	
Operating Temperature:	0°C~30°C(≦80% R.H.), 30°C~40°C(≦75% R.H.), 40°C	
	~50℃(≦45% R.H.)	
Storage Temperature:	-20℃~60℃	
Temperature Coefficient:	0.2×(spec. Acc'y)/°C <18°C, >28°C	
Shock Proof:	4 feet drops	
Safety:	IEC 61010-1: CAT.III 300V, CAT.II 600V	
Maximum Conduct Size:	22mm dia.	
Maximum Jaw Opening:	25mm dia.	
Power Requirement:	Two 1.5V Alkaline type AAA batteries	
Battery Life:	100 hours(Alkaline)	
Size:	66mm(W)×192mm(L)×27mm(H)	
Weight:	205g	
Accessories:	Battery (installed), Test Leads, Carrying Case and User	
	Manual	