

FEATURES

- 2000 Count Large-scale LCD display
- AC current measuring up to 400 Amps
- Data Hold
- Max Hold
- Easy battery replacement
- 27 mm dia. conductor size
- 1.2 m Drop Proof
- Auto power off to maximise battery life
- Safety to EN61010-1 CAT. III 600 V

RS PRO Clamp Meter - ICM20 Current Clamp Meter

RS Stock No.: 1233230



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 ICM135R True RMS Clamp Meter

From the trusted RS PRO brand, this ICM133R clamp meter offers high specification performance in a rugged, low-cost unit. It has true RMS reading on AC mode to ensure accurate current measurement.

Battery-powered for maximum portability, and with a large backlit screen, 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

Model Number	ICM20
Clamp Meter Type	Current Clamp
Functions Measured	AC Current, Continuity, Diode Test
Display Type	LCD
Number of Display Digits	2000 Count Large-scale LCD display
Sampling Rate	2.5 times/sec
Overload Protection	Yes 600V rms
Auto power OFF	Yes Approx. 10 minutes after last operation
Temperature coefficient	0.2 x (Specified accuracy) / °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

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	400A ac	±(2% rdg + 0.5A))	100mA
Diode Test	-3.1V max		
Absolute Temperature	0°C to +50°C		

Electrical Specifications

Power Source	Battery
Battery Type	IEC 6F22, NEDA 1604, 9V
Battery Life	300 h
Safety Category Level and Voltage	CAT III 600 V

Mechanical Specifications

Jaw Capacity (Busbars)	27mm
Maximum Conductor Size	27 (Dia.)mm
Dimensions	56 x 32 x 180mm
Width	32mm
Length	56mm
Height	180mm
Weight	250g

Operation Environment Specifications

Altitude	2000m (6562 ft)
Operating Temperature Range	0°C ~ 30°C (≤80% RH) 30°C ~ 40°C (≤75% RH) 40°C ~ 50°C (≤45%RH)
Storage Temperature Range	-20 to +60°C, 0 to 80% RH (batteries not fitted).

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
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)/°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:(All at 23°C±5°C, ≤80% R.H.)

AC Current

Range	Accuracy(50Hz~60Hz)
0A~19.99A	±(3.0%+0.05A)
20A~199.9A	±(2.0%+0.5A)
200A~400A	±(2.0%+5A)

Resolution: 0.1A

Conversion Type: Average sensing RMS indicating

Continuity

Continuity Tester: <50Ω approximate


Indicator: 2KHz tone buzzer

Diode

Open Circuit Voltage: -3.1V max

Overload Protection: 600V rms

General

Sampling Rate:	2.5 times/sec
Overload Indication:	OL is displayed
Low Battery Indication:	
Auto Power Off:	Approx. 10 minutes after last operation
Operating Temperature:	0°C ~30°C (≤80% R.H.), 30°C ~40°C (≤75% R.H.), 40°C ~50°C (≤45% R.H.)
Storage Temperature:	-20°C ~60°C
Temperature Coefficient:	0.2×(spec. Acc'y)/ °C <18°C, >28°C
Safety:	IEC 61010-1: CAT.III 600V, CAT.II 1000V
Maximum Conduct Size:	27mm dia.
Maximum Jaw Opening:	31mm dia.
Power Requirement:	Single 9V battery (NEDA 1604 or IEC 6F22)
Battery Life:	580 hours(Alkaline)
Size:	56mm(W)×180mm(L)×32mm(H)
Weight:	250g
Accessories:	Battery (installed), Test Leads, Carrying Case and User Manual