

FEATURES

- 600 A ac measurement
- 600 V ac/dc voltage measurement
- 34 mm diameter conductor jaw capacity
- 4000 Count backlit LCD display with analogue bargraph
- True RMS reading on AC mode
- Resistance & continuity beeper < 30 Ω
- Display Hold & Min Max Function
- 10 ms Peak Hold on ac A & ac V
- Frequency Counter
- Auto Power Off (30 minutes)
- Separate battery compartment
- 600 V circuit protection
- Complies with EN61010 CAT III 600 V Safety Standard for industrial applications

RS PRO Clamp Meter - ICM135R Multifunction Clamp Meter

RS Stock No.: 1233229



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	ICM135R
Clamp Meter Type	Multifunction Clamp
Functions Measured	AC Current, AC Voltage, Continuity, DC Voltage, Diode Test, Frequency, Resistance
Display Type	LCD
Number of Display Digits	4000 counts, 3 3/4 digit LCD readout.
Sampling Rate	1.5 times/sec
Overload Protection	Yes 600V DC or AC rms
True RMS	Yes
Auto power OFF	Yes 30 minutes after last operation
Temperature coefficient	0.2×(spec. Acc'y)/ <18°C, >28°C
Applications	Complies with EN61010 CAT III 600 V Safety Standard for industrial applications

Measurement

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)		±(1.9% rdg + 5dgts)	100mA
Absolute Voltage (AC)		±(1% rdg + 5dgts)	100mV
Absolute Voltage (DC)		±(0.7% rdg + 2dgts)	100mV
Absolute Resistance	400.0Ω	±(1% + 3 digits)	100mΩ
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)	34 mm diameter conductor jaw capacity
Maximum Conductor Size	34 (Dia.)mm
Dimensions	76 x 50 x 220mm
Width	50mm
Length	76mm
Height	220mm
Weight	360g with holster

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.)

DC/AC Voltage

Range	Input Impedance	Accuracy
400V, 600V DC	≥1MΩ	±(0.7%+2dgt)
400V, 600V AC	1MΩ// < 100pF	±(1%+5dgt) 50Hz~500Hz

Resolution: 100mV

Overload Protection: 600V DC or AC rms

Conversion Type: Average sensing True-RMS indicating

AC Current

Range	Accuracy	
	50Hz~60Hz	61Hz~400Hz
0A~60A	±(1.9%+7dgt)	±(2.5%+7dgt)
60.1A~400A	±(1.9%+5dgt)	
400.1A~600A	±(1.9%+5dgt)	

Resolution: 0.1A

Overload Protection: 600A rms

Conversion Type: Average sensing True-RMS indicating

Resistance

Range	Accuracy
400.0Ω	±(1%+3dgt)

Overload Protection: 600V rms

Resolution: 0.1Ω

Open Circuit Voltage: 3V max

Continuity

Continuity Tester: <30Ω approximate

Indicator: 2KHz tone buzzer

Frequency


Range	Accuracy	Resolution
20Hz~400Hz	±(0.1%+2dgt)	1Hz

Sensitivity: 2A rms fpr ACA (A~)(>400Hz Unspecified)

3V rms to 110V rms for ACV(V~)

Overload Protection: AC/DC 600A

General

Sampling Rate:	1.5 times/sec
Overload Indication:	OL is displayed
Low Battery Indication:	
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°C(≤45% R.H.)
Storage Temperature:	-20°C~60°C
Temperature Coefficient:	0.2×(spec. Acc'y)/°C <18°C, >28°C
Shock Proof:	4 feet drops
Safety:	IEC 61010-1:2001: CAT.III 600V, CAT.II 1000V
Maximum Conduct Size:	34mm dia.
Maximum Jaw Opening:	37mm dia.
Power Requirement:	Single 9V battery (NEDA 1604 or IEC 6F22)
Battery Life:	200 hours(Alkaline)
Size:	76mm(W)×220mm(L)×50mm(H)
Weight:	360g with holster
Accessories:	Battery (installed), Test Leads, Carrying Case and User Manual