

FEATURES

- Backlit 4000 Count LCD display with analogue bar graph
- True RMS Reading on ac mode
- 600 A ac/dc current measurement
- 600 V ac/dc voltage measurement
- Resistance measurement with continuity beeper
- Display hold & peak hold (10 ms)
- Maximum Conduct Size of 35 mm diameter
- Maximum Busbar Size: 40 ' 15 mm
- DCA zeroing key
- Min/max function
- Frequency counter
- Auto power off

RS PRO Clamp Meter- ICM136R AC/DC Clamp Meter

RS Stock No.: 123-3222



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 ICM136R True RMS Clamp meter

From the trusted RS PRO brand, this ICM 136R clamp meter has true RMS reading to ensure accurate current measurement. It utilises Hall Effect technology and features nickel steel alloy jaws for precise measurement of ac and dc current up to 600 A.

General Specifications

Product Range	Clamp meter
Model Number	ICM136R
Clamp Meter Type	Multifunction Clamp
Functions Measured	AC Current, AC Voltage, Continuity, DC Current, DC Voltage, Diode Test, Frequency, Resistance
Display Type	LCD
Number of Display Digits	Backlit 4000 Count
Sampling Rate	1.5 times/sec
Overload Protection	Yes
True RMS	Yes
Auto power OFF	Yes
Temperature coefficient	0.2x(spec. Acc'y)/°C <18°C, >28°C
Applications	Commercial/ Residential electricians

Measurement

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	600A ac	±(1.9% rdg + 5dgts)	100mA
Absolute Current (DC)	600A dc	±(1.9% rdg + 5dgts)	100mA
Absolute Voltage (AC)	600V ac	±(1% rdg + 5dgts)	100mV
Absolute Voltage (DC)	600V dc	±(0.7% rdg + 2dgts)	100mV
Frequency	20Hz~400KHz	±(0.1%+2dgt)	1Hz
Absolute Resistance	400.0Ω	±(1%+3dgt)	0.1Ω

Electrical Specifications

Power Source	Battery
Battery Type	IEC 6F22, NEDA 1604, 9V
Battery Life	300 h
Safety Category Level and Voltage	600 V, 1000 V CAT.III.

Mechanical Specifications

Jaw Capacity (Busbars)	35mm
Maximum Conductor Size	35 (Dia.)mm
Dimensions	78 x 51 x 235mm
Width	51mm
Length	78mm
Height	235mm
Weight	380g

Operation Environment Specifications

Operating Temperature Range	0° C ~ 30° C (\cong 80% RH) 30° C ~ 40° C (\cong 75% RH) 40° C ~ 50° C (\cong 45%RH)
Storage Temperature Range	-20 to +60°C, 0 to 80% RH (batteries not fitted).

Approvals

Compliance/Certifications	IEC 61010-1, EN61010
Declarations	RoHS Certificate of Compliance

Accessories Includes

Item Name	Qty
Test leads	1
Battery	1
Carry case	1
Instructions	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
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)/°C <18°C, >28°C	0.2 x (Specified accuracy) / °C, < 18°C, > 28°C

DC/AC Voltage

Range	Input Impedance	Overload Protection	Accuracy
0V~400V, 400V~600V DC	≥ 1MΩ	600V DC or AC rms	±(0.7%+2dgt)
0V~400V, 400V~600V rms	1MΩ// < 100pF	600V rms	±(1%+5dgt) 50Hz~500Hz

Resolution: 100mV

Conversion Type: Average sensing True-RMS indicating

DC/AC Current

Range	DC Accuracy
0A~60A	±(1.5%+10dgt)
60A~400A	±(1.9%+5dgt)
400A~600A	±(1.9%+10dgt)

Range	AC Accuracy	
	50Hz~60Hz	61Hz~400Hz
0A~60A	±(1.9%+7dgt)	±(2.5%+7dgt)
60A~400A	±(1.9%+5dgt)	±(2.5%+5dgt)
400A~600A	±(2.5%+5dgt)	±(2.9%+5dgt)

Resolution: 0.1A

Overload Protection: 600A rms

Conversion Type: Average sensing True-RMS indicating

Resistance & Continuity

Range	Accuracy
400.0Ω	±(1%+3dgt)

Overload Protection: 600V rms

Resolution: 0.1Ω

Open Circuit Voltage: 3V max

Continuity Tester: <30Ω approximate

Indicator: 2KHz tone buzzer

Frequency


Range	Accuracy	Resolution
20Hz~400KHz	$\pm(0.1\%+2\text{dgt})$	1Hz

Sensitivity: 2A rms for 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 ($\leq 80\%$ R.H.), 30°C~40°C ($\leq 75\%$ R.H.), 40°C~50°C ($\leq 45\%$ 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:	35mm dia.
Maximum Jaw Opening:	45mm dia.
Maximum Busbar Size:	40×15mm
Power Requirement:	Single 9V battery (NEDA 1604 or IEC 6F22)
Battery Life:	200 hours(Alkaline)
Size:	78mm(W)×235mm(L)×51mm(H)
Weight:	380g with holster
Accessories:	Battery (installed), Test Leads, Carrying Case and User Manual