

FEATURES

- 4000 Count large backlit LCD display
- 750 V ac / 1000 dc voltage measurement
- 600 A ac current measurement
- 4000 μ A dc current measurement ideal for flame sensor testing
- 40 M Ω resistance measurement.
- 4 mF capacitance measurement
- -40°C → 400°C type K thermocouple temperature measurement input & sensor
- Continuity & diode test
- Display hold function
- 32 mm conductor jaw size
- Complies with IEC 61010-1 CAT III 600 V, CAT II 1000 V

RS PRO Clamp Meter - ICM134 Multifunction Clamp Meter

RS Stock No.: 1233228



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 ICM134 HVAC Current Clamp Meter

From RS PRO, this current clampmeter features multimeter and thermometer functions, and is ideally suited to HVAC and electrical maintenance applications up to 600 A ac.

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 belt pouch carry case to keep the clampmeter safe and secure during transit and close at hand when working.

General Specifications

Model Number	ICM134
Clamp Meter Type	Multifunction Clamp
Functions Measured	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Resistance, Temperature
Display Type	LCD
Number of Display Digits	3 3 / 4 digit large scale Liquid Crystal Display
Sampling Rate	1.5 times/sec
Overload Protection	Yes 600Vrms
Auto power OFF	Yes
Temperature coefficient	0.2×(spec. Acc'y)/°C 28°C
Applications	ideal for HVAC installation and maintenance applications

Measurement

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	600A ac	±(1.9% rdg + 1A)	100mA
Absolute Current (DC)	4mA dc		
Absolute Voltage (AC)	750V ac	±(1.5% rdg + 5dgts)	1mV
Absolute Voltage (DC)	1000V dc	±(0.9% rdg + 2dgts)	1mV
Absolute Temperature	+400 °C, +1000 °F	1 °C, 1 °F	

Electrical Specifications

Power Source	Battery
Battery Type	9V Alkaline
Battery Life	200 h
Safety Category Level and Voltage	CAT II 1000 V, CAT III 600 V

Mechanical Specifications

Jaw Capacity (Busbars)	32mm
Maximum Conductor Size	32 (Dia.)mm
Dimensions	84mm(W)×212mm(L)×40mm(H)
Width	84mm
Length	212mm
Height	40mm
Weight	390g with holster

Operation Environment Specifications

Altitude	2000m (6562 ft)
Relative Humidity	0 to 80% RH with batteries removed from the instrument.
Operating Temperature Range	0° C to 30° C (32° F to 86° F) @ \cong 80% RH 30° C to 40° C (86° F to 104° F) @ \cong 75% RH 40° C to 50° C (104° F to 122° F) \cong 45%RH
Storage Temperature Range	-20 to +60°C (-4°F to 140°F)

Approvals

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

Accessories Includes

Item Name	Qty
Battery (installed)	1
Temp. Adaptor	1
Bead Sensor	1
Test Leads	1
Carrying Case and 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)	0.2x(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	Overload Protection	Accuracy
4V, 40V, 400V, 1000V DC	≥1MΩ	1000V DC or AC Peak	±(0.9%+2dgt)
4V, 40V, 400V, 750V DC	10MΩ// < 100pF	750V rms	±(1.5%+5dgt) 50Hz~500Hz

Resolution: 1mV

Conversion Type: Average sensing RMS indicating

AC Current

Range	Accuracy
400A, 600A	±(1.9%+1A) 50Hz~60Hz

Resolution: 0.1A

Conversion Type: Average sensing RMS indicating

Overload Protection: 600A rms

Resistance

Range	Accuracy
400.0Ω	±(1%+2dgt)
4KΩ	±(0.7%+2dgt)
40KΩ	
400KΩ	
4MΩ	±(1%+2dgt)
40MΩ	±(1.5%+2dgt)

Overload Protection: 600V rms

Resolution: 0.1Ω

Open Circuit Voltage: 1.3V approx.

Diode & Continuity

Continuity Tester: <100Ω approx.

Indicator: 2KHz tone buzzer

Open Circuit Voltage: 3V max

Input Protection: 600V rms

Capacitance

Range	Accuracy
4nF	$\pm(3\%+20\text{dgt})$
40nF, 400nF, 4 μ F, 40 μ F, 400 μ F, 4mF	$\pm(2\%+8\text{dgt})$

Resolution: 1pF

Overload Protection: 600V rms


Temperature

Range	Accuracy
-40°C~0°C	$\pm(1\%+4^\circ\text{C})$
0°C~400°C	$\pm(1\%+3^\circ\text{C})$
-40°F~32°F	$\pm(1\%+8^\circ\text{F})$
32°F~750°F	$\pm(1\%+8^\circ\text{F})$
750°F~1000°F	$\pm(2\%+8^\circ\text{F})$

Resolution: 0.1°C/1°F

Overload Protection: 600V rms

General

Sampling Rate:	1.5 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($\leq 80\%$ 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 \times (spec. Acc'y)/°C <18°C, >28°C
Shock Proof:	4 feet drops
Safety:	IEC 61010-1: CAT.III 600V, CAT.II 1000V
Maximum Conduct Size:	32mm dia.
Maximum Jaw Opening:	35mm dia.
Power Requirement:	Single 9V battery (NEDA 1604 or IEC 6F22)
Battery Life:	400hours(Alkaline)
Size:	84mm(W) \times 212mm(L) \times 40mm(H)
Weight:	390g with holster
Accessories:	Battery (installed), Temp. Adaptor, Bead Sensor, Test Leads, Carrying Case and User Manual