

FEATURES

- 10 000 count dual display LCD
- True rms current & voltage measurement
- True and apparent power and phase angle measurement (kW, kVA, Ø)
- Dual display options (kW+PF, kVA+ Ø,V+A, A+Hz, V+Hz)
- 1000 Aac current range to check motor & compressor current consumption
- 40 mm clamp diameter
- Min/Max with elapsed time to capture motor inrush current readings
- Data hold facility
- 1 nF to 3500 µF capacitance range suits run/start capacitor checks
- 1 kHz frequency measurement range
- Diode and continuity test
- µA range to measure flame sensor current
- 900 °C range Type K thermocouple input socket
- Analyse time-stamped temperature and power data

RS PRO Clamp Meter-IPM3000N Power Clamp Meter

RS Stock No.: 123-2241



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 IPM3000N HVAC Clamp meter, 1000 A

From the trusted RS PRO brand, this IPM3000N is a great value 1000 A ac power meter with features designed to suit HVAC and electrical maintenance applications. The clamp meter features a wide clamping jaw that can fit easily around power cables, presenting an efficient way to measure amps and volts in various kinds of electrical devices.

General Specifications	
Product Range	Clamp Meter
Model Number	IPM3000N
Clamp Meter Type	Power Clamp
Functions Measured	AC Current, AC Voltage, Capacitance, DC Voltage, Frequency, Power, Resistance, Temperature
Display Type	LCD
Overload Protection	Yes
True RMS	Yes
Data Hold	Yes
Applications	Commercial/ Residential electricians

Measurement

Parameter	Range	Accuracy	Resolution
Absolute Current (AC)	1kA ac	±(2% rdg + 20dgts)	10mA
Absolute Voltage (AC)	600V ac	±(1% rdg + 20dgts)	100µV
Absolute Voltage (DC)	600V dc	±(1% rdg + 20dgts)	100µV
Capacitance	1 nF to 3500 μF	2.5% ±15dgts	1µF
Diode Test	2.000V	±2% ±1dgt	1mV
Frequency	40Hz/1kHz	±0.5%rdg ±2dgts	0.1Hz
Absolute Resistance	100ΜΩ	1% ±10dgts	100Ω
Absolute Temperature	-50℃ to 900℃	1% ±1℃	0.1℃

Electrical Specifications

Power Source	Battery
Safety Category Level and Voltage	CAT III 600V

Mechanical Specifications

Jaw Capacity (Busbars)	40mm
Maximum Conductor Size	51mm
Dimensions	228 x 76 x 39mm

Clamp Meter



Width	76mm
Length	228mm
Height	39mm
Weight	465 g

Approvals	
Compliance/Certifications	EN61010-1 IEC 1010-2-032
Declarations	RoHS Certificate of Compliance

Accessories Includes

Item Name	Qty
Test leads	1
Crocodile clips	2
Case	1
9 V PP3 battery	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 0.2 x (Specified ' y)/℃ <18℃, accuracy) / ℃, >28℃ <18℃, >28℃	

LECTRICAL SPEC C Current (50Hz to 4		C±5 C)			
Range	Resolution	Accuracy		Sensitivity	Overload Protection
99.99A	10mA	±2% ±20dgts (50, 60Hz)		0.10A	1000A
999.9A	100mA	±4% ±20dgts (40~4	400Hz)	1.0A	TOOOA
Trms : (AC+DC) (B	Burden Voltage : 5m	ιV/μA)			
Range	Resolution	Accuracy		Sensitivity	Overload Protection
99.99µA	10nA	±1% ±20dgt		0.20µA	600V
999.9µA	100nA	±1% ±200ge	`	2.0µA	0001
Voltage (50Hz to 4	l00Hz) : Trms				
Range	Resolution	Accuracy		Sensitivity	Overload Protection
999.9mV	0.1mV			2.0mV	
9.999V	1mV	±1% ±20dgts (50,		0.020V	600V
99.99V	10mV	±2% ±20dgts (40~4	400Hz)	0.20V	
600.0V	100mV			2V	
Voltage				*	
Range	Resolution	Accuracy		Sensitivity	Overload Protection
999.9mV	0.1mV			2.0mV	
9.999V	1mV	±1.0% ±20dgt	s	0.020V	600V
99.99V	10mV		-	0.20V	
600.0V	100mV			2V	
1	ty<40 Ω on the 999	,			
Range		Resolution		Accuracy	Overload Protection
999.9 Ω		100mΩ 1Ω 10Ω		1% ±10dgts	600V
9.999kΩ					
99.99kΩ					
999.9k Ω		100 Ω	1		
2:	· · · · · · · · · · · · · · · · · · ·				
Range		Resolution		Accuracy	Overload Protection
9.999M Ω		1kΩ		E% +10 data	600V
99.99M Ω		10kΩ	1	5% ±10dgts	0000
ode (Continuity<4	40mV) :				•
Range		Resolution		Accuracy	Overload Protection
2.000V		1mV		±2% ±1dgt	600V
pacitance :	I				•
Range		Resolution		Accuracy	Overload Protection
10.000µF		1nF			
100.00µF		10nF		1.5% ±5dgts	600V
1000.0µF		100nF		J. J	
7000µF		1µF		2.5% ±15dgts	
mperature (K-Type	ther mocouple) .	- F	1		
Range	and moodupie).	Resolution		Accuracy	Overload Protection
-50°C to 900°C	2	0.1℃		1% ±1°C	
-58°F to 1000°		0.1°F			30V _{AC} or 60V _{DC}
-00 P 10 1000 1	Ľ	0.1 Г		1% ±2 °F	



1¢/3¢ TRUE Power (kW): (PF>0.5 or $\theta < 60^{\circ}$)

Range	Resolution	Accuracy	Overload Protection	
60.00kW (<100A)	10W	±5%rdg ±20dgts	600V ac / 1000A ac	
600.0kW (>100A)	100W	(50, 60Hz)	600V ac / 1000A ac	
∮⁄3 <mark>∳</mark> Horse Power (HP): (PF>	•0.5 or <i>θ</i> <60°)			
Range	Resolution	Accuracy	Overload Protection	
80.00HP (<100A)	0.01HP	±5%rdg ±20dgts	600V ac / 1000A ac	
800.0HP (>100A)	0.1HP	(50, 60Hz)		
φ Apparent Power (kVA)		•		
Range	Resolution	Accuracy	Overload Protection	
60.00kVA (<100A)	10VA	±2.5%rdg ±20dgts	600VAC / 1000AAC	
600.0kVA (>100A)	100VA			
ø/3 <mark>ø Phase Angle : (50Hz, 60</mark>)Hz)			
Range	Resolution	Accuracy	Sensitivity	
-60° to 0° to +60°	0.1º	±6.0°	ACV>100V, ACA>10A	
requency :				
Range	Resolution	Accuracy	Sensitivity	
40Hz/1kHz	0.1Hz	±0.5%rdg ±2dgts	ACV>1.2V, ACA>6A	