

## FEATURES

- True RMS
- 6000 count large-scale digital display
- Analog bar graph
- AC 0.001 mA resolution
- Auto ranging
- Auto hold
- Data hold
- Peak hold
- Comparator
- Low pass filter with high stability
- Analogue output
- Auto power off (disable)
- Up to 40 mm dia. (750MCM) conductor size
- 4 feet drop proof
- Deluxe carrying case
- Hand guard and Streamline designed
- Convenient battery door
- Operating temperature ranges between 0°C and 50°C

# RS PRO Clamp Meter - ILCM06R Leakage Current Clamp Meter

RS Stock No.: 1367823



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 Leakage Current Clamp Meter

The RS PRO ILCM 06R leakage current clamp meter is a great value leakage current clamp designed for safe, non-intrusive AC measurement up to 100A AC. It offers five ranges, with high-resolution 10 $\mu$ A on the 40mA range. The features include fast bar graph display of up to 30 times/second and a large jaw clamp. It includes carrying case, alkaline battery (installed), and a user's manual..

## General Specifications

<b>Model Number</b>	ILCM06R
<b>Clamp Meter Type</b>	Leakage Current Clamp
<b>Functions Measured</b>	AC Current
<b>Number of Display Digits</b>	6000 count large-scale digital display
<b>Sampling Rate</b>	5 times/sec
<b>Overload Protection</b>	600Vrms
<b>True RMS</b>	Yes
<b>Data Hold</b>	Yes
<b>Auto power OFF</b>	Yes Approx. 20 minutes after last operation
<b>Temperature coefficient</b>	0.2 * (Specified accuracy)/ $^{\circ}$ C, <18 $^{\circ}$ C, >28 $^{\circ}$ C

## Measurement

Parameter	Range	Accuracy	Resolution
<b>Absolute Current (AC)</b>	100A ac	$\pm$ (1% rdg + 8dgt)	1 $\mu$ A

## Electrical Specifications

<b>Power Source</b>	Battery
<b>Battery Type</b>	Alkaline, 1.5 V AAA
<b>Battery Life</b>	60 h
<b>Safety Category Level and Voltage</b>	CAT III 300 V

### Mechanical Specifications

<b>Jaw Capacity (Busbars)</b>	40mm
<b>Maximum Conductor Size</b>	40 (Dia.)mm
<b>Dimensions</b>	78 x 42 x 203mm
<b>Width</b>	42mm
<b>Length</b>	78mm
<b>Height</b>	203mm
<b>Weight</b>	300 (with Battery)g

### Operation Environment Specifications

<b>Relative Humidity</b>	0 °C ~ 30 °C ( $\leq$ 80% RH) 30 °C ~ 40 °C ( $\leq$ 75% RH) 40 °C ~ 50 °C ( $\leq$ 45%RH)
<b>Operating Temperature Range</b>	0 °C ~ 30 °C ( $\leq$ 80% RH) 30 °C ~ 40 °C ( $\leq$ 75% RH) 40 °C ~ 50 °C ( $\leq$ 45%RH)
<b>Storage Temperature Range</b>	-20°C to 60°C, 0% RH to 80% RH (batteries not fitted)

### Approvals

<b>Compliance/Certifications</b>	IEC 61010-1
<b>Declarations</b>	RoHS Certificate of Compliance

### Accessories Includes

Item Name	Qty
Alkaline battery(installed)	1
User Manual	1
Carrying case	1

### Similar Products

Stock No.	RS#1233228	RS#1233230	RS#1233252	RS#1233231
<b>Model Number</b>	ICM134	ICM20	ICM30R	ICM33II
<b>Clamp Meter Type</b>	Multifunction Clamp	Current Clamp	Multifunction Clamp	Multifunction Clamp
<b>Functions Measured</b>	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode Test, Resistance, Temperature	AC Current, Continuity, Diode Test		
<b>Display Type</b>	LCD	LCD	LCD	LCD
<b>Sampling Rate</b>	1.5 times/sec	2.5 times/sec	2.5 times/sec	4 times/sec
<b>Recording Function</b>				
<b>Absolute Current (AC)</b>	600A ac	400A ac	300A ac	600A ac
<b>Absolute Current (DC)</b>	4mA dc		300A dc	
<b>Absolute Voltage (AC)</b>	750V ac		600V ac	600V ac
<b>Absolute Voltage (DC)</b>	1000V dc		600V dc	
<b>Temperature coefficient</b>	$0.2 \times (\text{spec. Acc'y}) / ^\circ\text{C}$ 28°C	0° C ~ 30° C ( $\cong$ 80% RH) 30° C ~ 40° C ( $\cong$ 75% RH) 40° C ~ 50° C ( $\cong$ 45%RH)	$0.2 \times (\text{spec. Acc'y}) / ^\circ\text{C}$ <18°C, >28°C	0° C ~30° C ( $\cong$ 80% R.H.), 30° C ~40° C ( $\cong$ 75% R.H.), 40° C ~50° C ( $\cong$ 45% R.H.)

**Specifications:** (All at 23°C ±5°C, ≤80% R.H.)

- Accuracy is ± (% reading + number of digits)
- Temperature coefficient: 0.2 \* (Specified accuracy)/°C, <18°C, >28°C

**AC Current:**

Range	Resolution	Accuracy	
		50~60 Hz	61~400 Hz
6.000mA*	0.001mA	± (1% + 8D)	±(2% + 11D)
60.00mA	0.01mA	± (1% + 8D)	±(2% + 11D)
600.0mA	0.1mA	± (1% + 8D)	±(2% + 11D)
6.000A	0.001A	± (1% + 8D)	±(2% + 11D)
60.00A	0.01A	0A~1 0A : ±(1% + 8D)	0A~10A : ±(2% + 11D)
100.0A	0.1A	10~50A : ±(2% + 10D) 50~100A : ±(10% + 10D)	10~50A : ±(10% + 11D) 50~100A : ±(35% + 11D)

\*There is a little rolling within ±3 digits.

**Frequency Response:** 50 ~ 400Hz

**AC Conversion Type:** RMS sensing, RMS indication.

**Position Error:** ±1% of reading.

**Overload Protection:** 600Vrms

**Additional Accuracy by Crest Factor (C.F.):**

Add 6.0% for C.F. 1.4 ~ 2.0

Add 7.5% for C.F. 2.0 ~ 2.5

Add 9.0% for C.F. 2.5 ~ 3.0

**Max. Crest Factor:**

1.6 for 6000 ~ 5000 digits

2.0 for 5000 ~ 3000 digits

3.0 for 3000 ~ 0 digits

**Low-Pass Filter:**

Range	Resolution	Accuracy	
		50~60 Hz	61~400 Hz
6.000mA*	0.001mA	± (2% + 8D)	Unspecified
60.00mA	0.01mA	± (2% + 8D)	Unspecified
600.0mA	0.1mA	± (2% + 8D)	Unspecified
6.000A	0.001A	± (2% + 8D)	Unspecified
60.00A	0.01A	0A~1 0A : ±(2% + 8D) 10~50A : ±(3% + 10D)	Unspecified
100.0A	0.1A	50~100A : ±(12% + 10D)	


\*There is a little rolling within ±3 digits.

**Attenuation Characteristic:** Approx. -24 dB / Oct

**Cut-off Frequency :** Approx. 100Hz

**Overload Protection:** 600Vrms

**General**

<b>Sampling Rate:</b>	5 times/sec
<b>Overload Indication:</b>	"OL" or "-OL"
<b>Low Battery Indication:</b>	
<b>Auto Power Off:</b>	Approx. 20 minutes after last operation
<b>Operating Temperature:</b>	0 °C ~ 30 °C (≤80% RH) 30 °C ~ 40 °C (≤75% RH) 40 °C ~ 50 °C (≤45%RH)
<b>Storage Temperature:</b>	-20°C to 60°C, 0% RH to 80% RH (batteries not fitted)
<b>Temperature Coefficient:</b>	0.2 x (Specified accuracy) / °C, < 18°C, > 28°C .
<b>Safety:</b>	IEC 61010-1: CAT III 300V
<b>Maximum Conductor Size</b>	40mm dia.
<b>Power Requirement:</b>	1.5V x 2 AAA size batteries
<b>Battery Life: (Alkaline)</b>	Approx. 60 hours
<b>Size:</b>	78mm(W) x 203mm(L) x 42mm(D)
<b>Weight:</b>	Approx. 300g (with battery)
<b>Accessories:</b>	Carrying Case, Alkaline battery (installed), User Manual