



## Current clamp MD 9230

Order No. 20 991 447

The MD 9230 is a universal current clamp for measuring DC and TRMS AC voltages up to 600 V and DC and TRMS AC currents up to 1000A. With a broad spectrum of measurement functions and features, it is an ideal tool for service companies and works electricians in the industrial sector.

### Test functions:

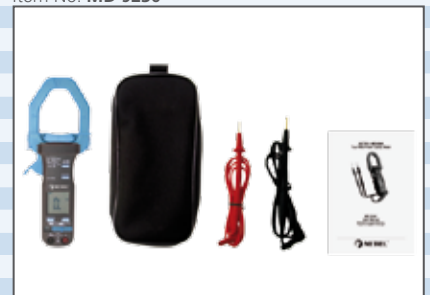
- DC and TRMS AC voltage up to 600 V
- DC and TRMS AC current measurement up to 1000 A and 800 A respectively
- Resistance measurement
- Continuity test
- Diode test
- Capacitance measurement

### Key Features:

- Auto-ranging on all ranges
- LCD display with backlight, 3-3/4 digit, 4000 count
- Data hold function
- Peak hold function
- Acoustic signalling on continuity test
- 50 mm jaw opening
- Resistance measurement up to 40.0 MΩ
- Capacitance measurement from 500 nF to 3000 μF
- Protected against wrong connection
- CAT III/600 V overvoltage category

### Delivery package

Item No. MD 9230



Current clamp MD 9230

- 2 test leads
- Battery
- Pouch
- User manual
- Warranty

### Dimensions:

Size (W x H x L): 78 x 40 x 227 mm  
Weight: 290 g

### Technical data

Function	Range	Accuracy
DC voltage	400.0 V, 4.000 V, 40.00 V, 400.0 V, 600.0 V	±(0.3 % + 3 digits, 0.5 % + 3 digits, 1.0 % + 4 digits) of reading
AC voltage 50 Hz ÷ 500 Hz	400.0 mV	±(4.0 % of reading + 4 digits)
50 Hz, 60 Hz	4.000 V, 40.00 V, 400.0 V	±(1.0 % of reading + 4 digits)
60 Hz ÷ 500 Hz	4.000 V, 40.00 V, 400.0 V	±(1.5 % of reading + 4 digits)
50 Hz ÷ 500 Hz	600 V	±(2.0 % of reading + 4 digits)
AC voltage 50 Hz - 500 Hz	6.000 V, 60.00 V, 600.0 V	from ±(2 % of reading + 5 digits) to ±(2.5% of reading + 5 digits)
AC current measurement, 50,60 Hz	0 A ÷ 400 A, 0 A ÷ 800 A	±(1.5 %, 1.5% of reading + 5 digits, 4 digits)
DC current measurement	0 A ÷ 400 A, 0 A ÷ 1000 A	±(1.5 %, 2.0% of reading + 4 digits, 4 digits)
Resistance measurement	400.0 Ω, 4.000 kΩ, 40.00 kΩ, 400.0 kΩ, 4.000 MΩ, 40.00 MΩ	±(0.8 % + 6 digits, 0.6 % + 4 digits, 1.0 % + 4 digits, 2.0 % + 4 digits) of reading
Continuity test	400.0 Ω	±(1.5 % of reading + 6 digits)
Diode test	Open-circuit voltage <1.6 V DC, test current 0.4 mA	
Capacitance	500 nF ÷ 3000 μF	±(3.5 % of reading + 6 digits)
Power supply	2 x 1.5 V AAA size batteries	
Overvoltage category	CAT III /600 V	
Pollution degree	II	

# Current clamp comparison

Item No.	MD 9210	MD 9220	MD 9230	MD 9240
				
<b>Technical data</b>				
<b>True RMS</b>		✓	✓	✓
<b>DC current range (A)</b>			0.1 A ÷ 1000 A	
Basic accuracy (%)			1.5	
<b>AC current range (A)</b>	0.01 A ÷ 600 A	0.1 A ÷ 2000 A	0.1 A ÷ 800 A	0.01 A ÷ 1000 A
Basic accuracy (%)	1.5	1.5	1.5	1
<b>DC voltage range (V)</b>	0.1 mV ÷ 600 V	1 mV ÷ 600 V	0.1 mV ÷ 600 V	0.1 V ÷ 600.0 V
Basic accuracy (%)	0.3	0.5	0.3	0.5
<b>AC voltage (V)</b>	1 mV ÷ 600 V	1 mV ÷ 600 V	0.1 mV ÷ 600 V	0.1 V ÷ 600.0 V
Basic accuracy (%)	1.5	1.5	1	0.5
<b>Resistance measurement</b>	0.1 Ω ÷ 40.00 MΩ	0.1 Ω ÷ 6.000 MΩ	0.1 Ω ÷ 40.00 MΩ	0.1 Ω ÷ 999.9 Ω
Basic accuracy (%)	0.6	1	0.6	1
<b>Acoustic continuity test</b>	✓	✓	✓	✓
<b>Diode test</b>	✓	✓	✓	
<b>Capacitance</b>	✓	✓	✓	
<b>Mains frequency</b>	✓	✓		✓
<b>Temperature measurement</b> (Type K sensor)				✓
<b>Autocheck® V-Ω</b>		✓		Auto V-A
<b>Power measurement</b> (W, VA & VAR)				Single-phase
<b>Count</b>	4000	6000	4000	6000
<b>Backlight</b>		✓		✓
<b>COM port</b> (data transfer)				✓
<b>Automatic and manual range selection</b>	✓	✓	✓	
<b>Automatic switch off</b>	✓	✓	✓	✓
<b>Non-contact voltage detection</b>		✓		
<b>Peak measurement</b>	Peak value storage		Peak value storage	RMS Peak value storage
<b>Data hold</b>	✓	✓	✓	✓
<b>Jaw opening</b>	26 mm	45 mm	50 mm	45 mm
<b>Relative value</b>	✓		✓	
<b>Overvoltage category</b>	CAT III/600 V	CAT III/600 V	CAT III/600 V	CAT III/600 V
<b>Degree of protection</b>	IP 50	IP 50	IP 50	IP 50
<b>CE mark</b>	✓	✓	✓	✓