

## Power clamp meter MD 9240

Order No. 20 991 446

The MD 9240 is a high-quality and extremely easy to handle power clamp meter. The current clamp enables TRMS AC current measurement up to 1000 A, single-phase power analysis, DC, AC voltage measurement, temperature measurement and more. As a result, the current clamp is suitable for maintenance and checking of distribution systems, switchboards and motors, or in systems where the supply network is heavily contaminated with harmonics.

### Test functions:

- DC and TRMS AC voltage up to 600 V
- TRMS AC current measurement up to 1000 A
- Resistance measurement
- Continuity test
- Frequency measurement
- Contact temperature measurement
- Power factor
- Power (W, VA, Var)

### Key Features:

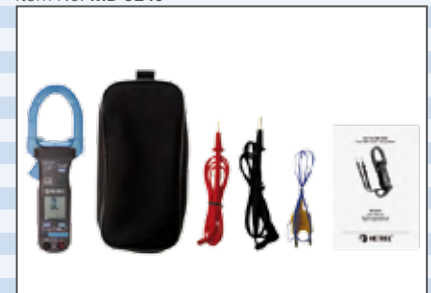
- Auto-ranging on all ranges
- LCD display with backlight, 3-3/4 digit, 6000 count
- Peak-hold function
- Acoustic signalling on continuity test
- 45 mm jaw opening
- Single-phase power analysis
- Resistance measurement up to 999.9  $\Omega$
- Temperature measurement
- COM port
- Optional PC software
- Protected against wrong connection
- CAT III/600 V overvoltage category

### Technical data

Function	Range	Accuracy
DC voltage	600.0 V	$\pm(0.5\% \text{ of reading} + 5 \text{ digits})$
AC voltage , 50 Hz $\div$ 60 Hz, 45 Hz $\div$ 500 Hz, 500 Hz $\div$ 3.1 kHz	600.0 V, 600.0 V, 600.0 V	$\pm(0.5\% + 5 \text{ digits}, 1.5\% + 5 \text{ digits}, 2.5\% + 4 \text{ digits})$ of reading
AC current measurement, 50,60 Hz	40.00 A, 400.0 A, 1000 A	$\pm(1.0\% \text{ of reading} + 5 \text{ digits})$
	45 Hz $\div$ 500 Hz	from $\pm(2.0\% \text{ of reading} + 5 \text{ digits})$ to $\pm(2.5\% \text{ of reading} + 5 \text{ digits})$
	500 Hz $\div$ 3.1 kHz	from $\pm(2.5\% \text{ of reading} + 5 \text{ digits})$ to $\pm(3\% \text{ of reading} + 5 \text{ digits})$
Temperature	-50 $^{\circ}\text{C}$ $\div$ 300 $^{\circ}\text{C}$	$\pm(3\% \text{ of reading} + 3\text{ }^{\circ}\text{C})$
Resistance measurement	999.9 $\Omega$	$\pm(1\% \text{ of reading} + 6 \text{ digits})$
Continuity test	10 $\div$ 300 $\Omega$	
Frequency	5 Hz $\div$ 500 Hz	$\pm(0.5\% \text{ of reading} + 4 \text{ digits})$
Power factor (PF)	0.10 $\div$ 0.99	$\pm 3 \text{ digits}$ (H from 1. to 21.), $\pm 5 \text{ digits}$ (H from 22. to 51.)
Apparent power	0 $\div$ 600.0 kVA	$\pm(2\% + 6 \text{ digits}, 3.5\% + 6 \text{ digits}, 5.5\% + 6 \text{ digits})$ of reading (H 10./11., 46./47., 51.)
Active power, reactive power	0 $\div$ 600.0 kW, kVar	$\pm(3.5\% \text{ of reading} + 6 \text{ digits})$ (H from 11. to 25.)
Power supply	2 x 1.5 V AAA size batteries	
Overvoltage category	CAT III/600 V	
Pollution degree	2	

### Delivery package

Item No. MD 9240



Power clamp meter MD 9240

2 test leads

Type K temperature sensor

Battery

Pouch

User manual

Warranty

### Optional accessories:

**AMD 9240** - PC interface kit

(including Optical Adapter Back, Cable & Software CD)

**AMD 9023** - Temperature probe Type K

(in accordance with IST-90 and JIS C 1602)

**AMD 9024** - plug adapter banana pins to k-type socket

### Dimensions:

Size (W x H x L): 78 x 40 x 224 mm

Weight: 224 g

# 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>	✓	✓	✓	✓