

DATA SHEET

3-447-302-03

1/10.25

METRALINE CM 400

M611M

CLAMP METER

- Handy, compact design that fits perfectly into any everyday working environment
- Shock and impact resistant thanks to robust construction
- Display with 4000 counts
- Rotary switch for measuring mode selection
- Safety per DIN VDE 041-1/EN 61010
- Measuring category CAT IV / 1000 V
- Resistance measurement
- Voltage measurement (AC and DC)
- Current measurement (AC and DC)
- Capacitance measurement
- Frequency measurement
- Diode and acoustic continuity testing
- True RMS value display (TRMS)
- Freezing of measured value (HOLD)
- Switch between minimum, maximum and normal value
- Automatic range selection



APPLICATION

With its 35 mm opening, the METRALINE CM 400 is designed for a wide range of applications, e.g. in industry, trade, electromobility or solar systems.

With protection category CAT IV / 1000 V, the device corresponds to the highest safety category for AC and DC and it is produced in accordance with the latest safety regulations and ensures safe and reliable working.

SCOPE OF DELIVERY

Standard scope of delivery:

- 1 Current clamp METRALINE CM 400 (M611M)
- 2 Measurement cables (1 × red, 1 × black)
- 2 Batteries (1.5 V, AAA, IEC LR03)
- 1 Operating instructions

INCLUDED FEATURES

METRALINE CM 400 is distinguished by the following features:





- Current measurement AC/DC up to 400 A
- μA measurement AC/DC
- Voltage measurement up to 1000 V_{AC} or 1500 V_{DC}
- Maximum safety thanks to CAT IV / 1000 V
- TRMS measurement
- Resistance, capacitance and frequency measurement
- Continuity and diode testing
- Non-contact voltage measurement
- LPF function (low-pass filter)
- Flashlight
- Illuminated display
- Automatic shutdown
- Self-test function

TECHNICAL DATA

Display	LCD; 7 segments, 4-digit display, backlight; Current, voltage, resistance, capacitance, frequency, continuity, diode, polarity (- for negative values); NCV, LPF, Hold, Min/Max, Zero, automatic switch-off, battery check
LEDs	Flashlight, NCV
Voltage measurement	1 mV _{AC} ... 1000 V _{AC} TRMS, 1 mV _{DC} ... 1500 V _{DC}
Overload protection - high impedance	10 MΩ voltage measurement
Current measurement	Clamp: 0.2 A _{AC} ... 400 A _{AC} TRMS, 0.01 A _{DC} ... 400 A _{DC} Socket: 2 μA _{AC} ... 400 μA _{AC} TRMS, 2 μA _{DC} ... 400 μA _{DC}
Resistance measurement	0 Ω ... 40 MΩ
Capacitance measurement	10 nF ... 100 μF
Continuity test	< 30 Ω acoustic signal Reversing point 0 Ω to 30 Ω (± 20 Ω)
Diode test	0 V ... 1.0 V
Frequency measurement	1 Hz ... 9,99 MHz
Clamp opening	35 mm, oval
Distance of measuring cables	25 mm
TRMS	Yes
NCV (non-contact voltage measurement)	Yes (AC only)
LPF (low-pass filter)	Yes, 1 kHz / -3 dB
Flashlight	Yes
Automatic shutdown	Yes
Self-test	Yes
Measuring category	CAT IV / 1000 V
Pollution degree	2
Power supply	Batteries, 2 × 1.5 V AAA, IEC LR03
Tested per	IEC 61010-1, IEC 61010-2-032
Dimensions	Approx. 220 × 80 × 42 mm
Weight	Approx. 268 g (without batteries)
Ambient conditions	Operation: 0 °C ... +50 °C, max. 80% relative humidity Storage: -10 °C ... +60 °C, max. 80% relative humidity (without batteries) Elevation: up to 2000 m

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