

# METRALINE PV 1500

M611N

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 PV 1500 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 PV 1500 (M611N)
- 2 Measurement cables (1 × red, 1 × black)
- 2 Batteries (1.5 V, AAA, IEC LR03)
- 1 Operating instructions

## INCLUDED FEATURES

METRALINE PV 1500 is distinguished by the following features:

- Large drop-shaped clamp for measuring on busbars
- Current measurement AC/DC up to 1000 A
- $\mu$ A measurement AC/DC
- Voltage measurement up to 1000 V<sub>AC</sub> or 1500 V<sub>DC</sub>
- 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;<br>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 <sub>AC</sub> ... 1000 V <sub>AC</sub> TRMS, 1 mV <sub>DC</sub> ... 1500 V <sub>DC</sub>                                                                                                                                 |
| Overload protection - high impedance  | 10 MΩ voltage measurement                                                                                                                                                                                                     |
| Current measurement                   | Clamp: 0.2 A <sub>AC</sub> ... 1000 A <sub>AC</sub> TRMS, 0.01 A <sub>DC</sub> ... 1000 A <sub>DC</sub><br>Socket: 2 μA <sub>AC</sub> ... 400 μA <sub>AC</sub> TRMS, 2 μA <sub>DC</sub> ... 400 μA <sub>DC</sub>              |
| Resistance measurement                | 0 Ω ... 40 MΩ                                                                                                                                                                                                                 |
| Capacitance measurement               | 10 nF ... 100 μF                                                                                                                                                                                                              |
| Continuity test                       | < 30 Ω acoustic signal<br>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, drop-shaped                                                                                                                                                                                                            |
| 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. 255 × 81 × 43 mm                                                                                                                                                                                                      |
| Weight                                | Approx. 300 g (without batteries)                                                                                                                                                                                             |
| Ambient conditions                    | Operation: 0 °C ... +50 °C, max. 80% relative humidity<br>Storage: -10 °C ... +60 °C, max. 80% relative humidity (without batteries)<br>Elevation: up to 2000 m                                                               |

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