

## DATA SHEET

3-447-300-03

1/5.25

# METRALINE VC SENSE DC

M611U

CURRENT-VOLTAGE TESTER

- Handy, slim design that fits perfectly into any everyday working environment
- DC and AC voltage test with polarity display and simple result indication via LEDs in the fork and on the display
- Contactless current measurement AC and DC
- Resistance measurement
- Frequency measurement
- Single-pole phase testing
- Continuity
- Rotary field
- Contactless cable break detection via sensor
- Display (4-digit, 7-segment display) with illumination
- Test probes can be fixed at the fork with a probe distance of 19 mm (suitable for socket testing)
- Bright illumination of measuring points in the fork
- Vibration and sound generator for safe feedback in any environment



## APPLICATION

The METRALINE VC SENSE DC is a universally applicable tester for voltage, current, phase sequence, continuity, single-pole phase testing, and for various additional tests.

The instruments are produced in accordance with the latest safety regulations and guarantee safe and reliable working.

## SCOPE OF DELIVERY

Standard Scope of Delivery:

- 1 METRALINE VC SENSE M611U
- 2 4 mm test probe adapter
- 2 Safety caps CAT III / 1000 V, GS 38
- 2 Batteries (1.5 V, AAA, IEC LR03)
- 1 Operating instructions

## INCLUDED FEATURES

METRALINE VC SENSE DC is characterized by the following features:





- Designed per DIN EN 61243-3
- Measuring category CAT IV 600 V, CAT III 1000 V, CAT II 1000 V
- DC and AC voltage test with polarity display  
1 V<sub>AC</sub> ... 1000 V<sub>AC</sub> and/or 1 V<sub>DC</sub>... 1500 V<sub>DC</sub>
- Current measurement 0.1 A<sub>AC/DC</sub> ... 200 A<sub>AC/DC</sub>
- Single-pole phase testing
- 2-pole phase sequence measurement to earth
- Continuity test (also diode)
- Resistance measurement 0 Ω ... 100 kΩ
- Frequency measurement from 0 Hz... 800 Hz
- Broken Cable Detection
- Vibration and sound
- Automatic on/off
- Measuring point illumination by means of white LED

## TECHNICAL DATA

<b>Display</b>	4-digit, 7-segment display, with illumination; Voltage (AC/DC), low voltage, polarity, current, continuity, low continuity, frequency, Data Hold, Zero, overflow indicator, battery charge level indicator
<b>LEDs</b>	Voltage (120 V, 230 V, 400 V, 690 V, 1000 V), warning of dangerous voltage, single-pole phase test, continuity, phase sequence
<b>Voltage testing</b>	1 V <sub>AC</sub> ... 1000 V <sub>AC</sub> TRMS (15 Hz ... 400 Hz), 1 V <sub>DC</sub> ... 1500 V <sub>DC</sub> with polarity indicator
<b>Current measurement</b>	0.1 A <sub>AC/DC</sub> ... 200 A <sub>AC/DC</sub> , 40 Hz ... 400 Hz
<b>Single-pole phase testing</b>	100 V <sub>AC</sub> ... 1000 V <sub>AC</sub> , 50/60 Hz
<b>Phase sequence test</b>	170 V ... 1000 V phase-to-phase, AC 40 Hz ... 70 Hz
<b>Continuity test</b>	0 Ω ... 500 kΩ +50 %, continuous acoustic signal when resistance < 20 Ω
<b>Diode test</b>	Continuity testing
<b>Resistance measurement</b>	0 Ω ... 100 kΩ Resolution: 1 Ω for < 2 kΩ; 1 kΩ for > 2 kΩ
<b>Frequency measurement</b>	0 Hz ... 800 Hz
<b>Broken Cable Detection</b>	with sensor, drop in signal strength indicates cable break for special examination, indication via display and sounds
<b>Measuring operation</b>	30 s on (operating time), 240 s off (recovery time)
<b>Current consumption from measured object</b>	< 3.5 mA at 1000 V <sub>AC</sub> , <6 mA (at 1500V <sub>DC</sub> )
<b>Battery</b>	2 × 1.5 V AAA, IEC LR03
<b>Measuring category</b>	CAT IV 600 V, CAT III 1000 V, CAT II 1000 V
<b>Flashlight</b>	White LED
<b>Self-test</b>	Yes
<b>Automatic on/off</b>	On: Voltage, continuity / off: 10 s
<b>Measurement cables</b>	19 mm probe distance, storage on the back
<b>Opening of the current fork</b>	14 mm
<b>Tested per</b>	DIN EN 61243-3, DIN EN 61010-1
<b>Protection</b>	IP64
<b>Ambient Conditions</b>	Temperature: -15 ... 55° C operation; -20 ... 70° C storage; Humidity: max. 85 % relative humidity, no condensation Elevation: up to 2000 m

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