

BENNING IT 115

Multifunction Installation Tester for Safety Testing on Electrical Installations



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TRUE RMS Installation Tester BENNING IT 115

Top price and performance:

- testing according to IEC 60364-6 and EN 50110
- easy operation for efficient testing
- delivery including case, measuring leads, set of test probe/ crocodile clips, storage batteries, charging cable and calibration record

Features:

- unambiguous "PASS" / "FAIL" indication by means of green / red LED
- all measuring functions can be selected directly by means of a rotary switch
- graphic display with background lighting, help function with connecting diagram
- power supply by means of six NiMH storage batteries (AA)
- device with integrated storage battery charging function

Measuring functions:

- low-impedance resistance of protective conductor and equipotential bonding conductor connections (testing current: 200 mA with polarity reversal)
- insulating resistance with testing voltages of 50 / 100 / 250 / 500 / 1000 V
- line impedance (L-N / L) with voltage drop and short-circuit current
- loop impedance (L-PE) without RCD tripping and short-circuit current
- testing of RCDs types AC, A, F with contact voltage, tripping time and tripping current (ramp test)
- TRUE RMS voltage, frequency and phase sequence test

Optional accessoires:

- „Commander“ probe tip (044155) with „PASS“ / „FAIL“ indication by means of green/ red LED, „TEST“ key as well as bright LED measuring point illumination
- „Commander“ test plug (044149) for shock-proof sockets with „PASS“ / „FAIL“ indication by means of green / red LED and „TEST“ key
- earthing measurement by means of three-wire measuring method by means of earthing kit (044113)

Further information about accessories can be found in the next directory [„BENNING IT 115 / IT 130 accessories“](#).

Industrial environments requires TRUE RMS measuring instruments!

Non-linear loads arising e.g. from motor drives with adjustable speed, frequency converters or mains supply units for office equipment and LED lamps generate a reactive power in the mains. As a result, multimeters and current clamps working with the so-called averaging measuring method ("RMS") will display the measured values with reduced accuracy.

In many cases and particularly in industrial environments, it is therefore absolutely necessary to use state-of-the-art "TRUE RMS" measuring instruments. The "TRUE RMS" measuring method indicates the actual effective value of an alternating current correctly – irrespective of whether the signal waveform of the current is sinusoidal or distorted.



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- TRUE RMS
- FI/RCD



Scope of delivery of

the BENNING IT 115

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display	graphic display (illuminated)
low-impedance resistance	0.01 Ω – 2 kΩ
insulation	10 kΩ – 1000 MΩ

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resistance

**line impedance (L-
N / L)** 0.01 Ω – 10 k Ω

**loop impedance
(L-PE)** 0.01 Ω – 10 k Ω

**short-circuit
current** 0.01 Ω – 200 kA

RCD testing AC / A / F

rotary field yes

**voltage (TRUE
RMS), frequency** 1 V – 550 V, 0 Hz – 500 Hz

earth resistance 0.01 Ω – 2000 Ω (by means of earthing set)

scope of delivery case, testcabel with shock-proof plug, universal three-wire test cable (L = 1,5 m), 3 x test prob / crocodile clips, charger with 6 NiMH storage batteries (AA)

item no. 044104