

- BENNING IT 130

TRUE RMS Installation Tester BENNING IT 130

- testing according to IEC 60364-6 and EN 50110
- testing RCDs of types B / B+ (universal) and types AC, A, F (mixed frequencies)
- even more easier, efficient and safer tests

Features:

- NEW: bidirectional interfaces (USB / RS 232)
- NEW: measured value memory covering four levels (object / block / fuse / measuring point)
- NEW: upload of installation structures and download of measured values
- NEW: integrated real-time clock (measured value with date/ time)
- NEW: unambiguous "PASS" / "FAIL" indication by means of green / red LED on the tester and on the switchable "Commander" probe tip
- NEW: "Commander" probe tip with "TEST" and "MEM" key as well as bright LED measuring point illumination
- all measuring functions can be selected directly by means of a rotary switch
- memory of measured values for 1800 measurements
- 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, standard and delayed (S), types AC, A, F, B, B+ with AUTO test, contact voltage, tripping time and tripping current (ramp test)
- TRUE RMS voltage, frequency and phase sequence test
- single-fault leakage current in IT networks

Measuring functions by means of optional accessories:

- earthing measurement by means of three-wire measuring method by means of earthing kit
- TRUE RMS current by means of current clamps BENNING CC 1 / BENNING CC 2 / BENNING CC 3
- luminous intensity by means of BENNING luxmeter type B



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- TRUE RMS
- SOFTWARE
- FI/RCD
- RS-232
- USB



Scope of delivery of the BENNING IT 130



"Commander" probe tip (included in delivery)

BENNING PC-Win IT 130 logging software:

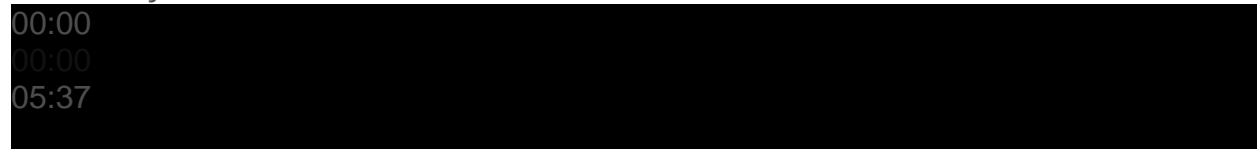
- NEW: creation and transmission (upload) of installation structures to the BENNING IT 130 for efficient periodic testing
- download of measured values and logging by means of test reports and ZVEH test certificates

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.

Video Player



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display graphic display (illuminated)

low-impedance resistance 0.01 Ω – 2 k Ω

insulation resistance 10 k Ω – 1000 M Ω

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

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

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short-circuit current	0.01 Ω – 200 kA
RCD testing of types AC / A / F and B / B+	tripping time, tripping current (ramp), contact voltage, automatic testing (AUTO)
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)
current (TRUE RMS)	0.1 mA – 400 A (by means of clamp)
luminous intensity	0.01 lux – 20 klux (by means of sensor)
measured value memory	up to 1800 measuring results
interfaces (bidirectional)	USB, RS 232
incl. software	yes
scope of delivery	case, PC software, USB / RS 232 cabel, switchable "Commander" probe tip, 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)
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