

BENNING**Installation tester, Type: IT130****Order data**

Order number	473422 IT130
GTIN	4014651441033
Item class	47A

Description**Version:****BENNING IT 130 TRMS installation tester**

Testing according to DIN VDE 0100-600 (IEC 60364-6) and DIN VDE 0105-100 (EN 50110).

Testing of FI/RCD circuit breakers type B / B+ (sensitive to all current types) and type AC, A, F (mixed frequencies).

Even simpler, more efficient and safer tests.

Special features:

- **Bidirectional interfaces (USB / RS 232).**
- **Measurement memory over 4 levels (object, block, fuse, measuring point).**
- **Upload system structures, download measurements.**
- **Integrated real-time clock (measurement with date/time).**
- **Pass/fail results clearly indicated via green/red LED on the tester and on the switchable Commander test probe.**
- **Commander test probe with TEST and MEMORY button and bright LED illumination of the measuring point.**
- **All measuring functions can be selected directly using a rotary dial.**
- **Measurement memory for 1800 measurements.**
- **Graphic display with backlight, help function with connection diagram.**
- **Powered by 6 NiMH AA batteries.**
- **Battery charging function integrated in the device.**

Measurement functions:

- **Low ohmic resistance of protective and equipotential bonding conductor connections (test current: 200 mA with polarity reversal).**
- **Insulation resistance with test voltages of 50 V, 100 V, 250 V, 500 V and 1,000 V.**
- **Line impedance (L-N / L) with voltage drop and short-circuit current.**
- **Loop impedance (L-PE) without FI/RCD tripping and short-circuit current.**
- **Testing of FI/RCD circuit breakers, standard and delayed (S), type AC, A, F, B, B+, EV, MI with AUTO test, contact voltage, tripping time and tripping current (ramp test).**
- **TRUE RMS voltage, frequency and testing of the phase sequence.**
- **First-fault leakage current in the IT network.**

Testing EV charging stations (EVSE Mode 3) (wallboxes):

- **BENNING EV 3-2 test adapter with plug type 2 for simulating charging states and testing the effectiveness of protective measures on 1 and 3-phase electric charging stations (044169)**

Note:

The BENNING IT 130 supports testing of EV RCDs with measurement of the tripping current (RCD I) with 6 mA DC ramp and testing of the tripping time (RCDt) with 6 mA DC of residual direct current monitoring devices.

To provide more comprehensive and convenient testing of wallboxes, when purchasing new equipment we recommend the BENNING IT 200 installation tester (044106) in addition to the BENNING EV 3-2 test adapter (044169). Alongside the enhanced tripping time measurement – which can also be performed at 60 mA DC and 200 mA DC – according to IEC 62955, the BENNING IT 200 also has Auto Sequences® designed specifically for testing wallboxes. The prescribed visual inspection can also be stored and documented directly on the BENNING IT 200.

BENNING PC-Win IT 130-200 logging software:

- **Create and transfer (upload) system structures to the BENNING IT 130 for efficient repeat testing.**
- **Download measurements and log information in test report and test log.**
- **Free download and future software updates.**

Feature:

Display: graphic display (illuminated)

Low ohmic resistance: 0.01 Ω – 2 k Ω

Insulation resistance: 10 k Ω – 1,000 M Ω

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 A – 200 kA

FI / RCD test type AC / A / F, B / B+ and EV / MI: tripping time, tripping current (ramp), contact voltage, auto test

Rotational field: YES

Voltage (TRUE RMS), frequency: 1 V – 550 V, 0 Hz – 500 Hz

Earth resistance: 0.01 Ω – 2,000 Ω (via earthing kit)

Current (TRUE RMS): 0.1 mA – 400 A (via clamp)

Illumination intensity: 0.01 lux – 20 klux (via sensor)

Measurement memory: up to 1800 measurements

Interfaces (bidirectional): USB, RS 232

Incl. software: YES

Delivery conditions:

- **Padded carrying case**
- **BENNING PC-Win IT 130-200 logging software (download link), USB / RS-232 interface cable**
- **Commander test probe (incl. batteries)**
- **Test cable with safety plug**
- **Universal 3-conductor test lead**
- **Set of test probes and crocodile clips**
- **Carrying strap (device)**
- **6 rechargeable NiMH AA batteries, charger**
- **Calibration certificate**

Optional extras:

Earthing measurement via 3-conductor method with earthing kit (044113).

TRUE RMS current via BENNING CC 3 (044038), BENNING CC 4-1 (044166) current clamp adapter.

Precise measurement of TRMS leakage, stray and protective conductor current via optional BENNING CC 4-1 current clamp (044166).

Testing of 5-pin, 16 A CEE sockets via optional BENNING TA 6 CEE measuring adapter (044168).

Illumination intensity measurement via optional BENNING type B lux meter (044111).

Technical description

Number of batteries contained	6
Power supply	Mains operated
Type of product	Multimeter