Safety Instruments BENNING IT 101, IT 110 and IT 120
Testing of electrical systems in compliance with the standards

BENNING IT 101
Insulation and Resistance Measuring Device

- measurement of insulating resistance and calculation of the resulting leakage current
- testing voltages of 50 V, 100 V, 250 V, 500 V and 1000 V
- selectable limiting values for ISO measurement, green LED for "PASS", red LED for ⚠ testing voltage/external voltage
- resistance measurement with a testing current of 200 mA for testing protective conductor connections
- measurement of polarization index (PI) and dielectric absorption rate (DAR)
- switchable probe tip for triggering the measuring process
- internal memory for 100 measuring values per measuring function
- TRUE RMS voltage measurement with low-pass filter
- including case, switchable probe tip, silicone measuring lines, magnetic hook, alligator clips, rubber protective frame and batteries

BENNING IT 110, BENNING IT 120
Installation Testers
For safety tests on electrical systems according to DIN VDE 0100 and IEC 60364

Multifunctional installation testers for complete testing and efficient troubleshooting of electrical systems

- measurement of the protective conductor line and of the equipotential bonding line with a testing current of 200 mA
- measurement of the insulation resistance with testing voltages of 100 V, 250 V, 500 V and 1000 V
- line impedance and loop impedance measurement (optional without tripping of the RCD) with calculation of the short-circuit current (PFC/PSC)
- complete testing of the residual-current-operated device (RCD)
- measurement of contact voltage (without tripping), tripping time and tripping current (ramp test) of residual current operated device (RCD)
- phase-sequence testing in three-phase mains
- voltage measurement up to 500 V and online voltage monitoring



CAT IV 600 V
TRUE RMS

IT 101

IT 110



Scope of delivery BENNING IT 101

BENNING IT 101
Insulation and Resistance Measuring Device

	BENNING IT 101
indicating range	4000 digits (illumination)
low-impedance resistance	0.01 Ω - 40 Ω
insulation resistance	1 kΩ - 20 GΩ
resistance	0.01 Ω - 40 kΩ
voltage	0.1 V - 600 V AC/DC TRUE RMS
supplementary function	leakage current, polarization index (PI), dielectric absorption rate (DAR), automatic discharge function, null balance of the measuring lines
measured value memory	500 measuring results
measuring category	CAT IV 600 V
item no.	044033

BENNING IT 110
Installation Tester

	BENNING IT 110
display	graphic display (illuminated)
low-impedance resistance	0.01 Ω - 2000 Ω
insulation resistance	1 kΩ - 1000 MΩ
line impedance (L-N/L)	0.01 Ω - 2000 Ω
loop impedance (L-PE)	0.01 Ω - 2000 Ω
short-circuit current	0.01 A - 24.4 kA
RCD testing	tripping time, tripping current, contact voltage
phase sequence	yes
voltage, frequency	1 V - 500 V, 45 Hz - 65 Hz
item no.	044100

BENNING IT 110, IT 120 Installation Testers
The perfect solution for efficient testing

Features
BENNING IT 110, BENNING IT 120

- all measuring functions can be selected directly by means of a rotary switch
- switchable probe tip for releasing the measuring process
- graphic display and help function with connecting diagram
- complete measuring result with measuring parameters, limiting value and symbols for PASS/FAIL
- current supply by means of 6 NiMH storage batteries (AA) with charger

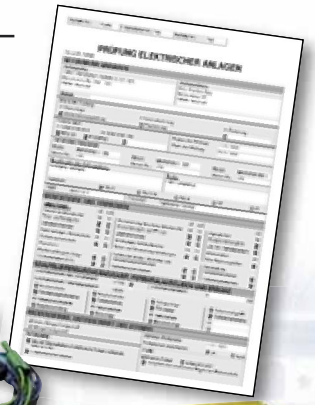
Additional functions
BENNING IT 120

in addition to the *BENNING IT 110*:

- current measurement (TRUE RMS) by means of current clamp adapter (optional)
- illumination measurement by means of lux sensor (optional)
- earthing measurement by means of three-wire measuring method (optionally with earthing set)
- integrated measured value memory for 500 measurements
- USB and RS 232 interface
- *BENNING PC-Win IT 120* software included in delivery

Logging software with Test Log according to ZVEH
BENNING PC-Win IT 120

- PC software for reading the stored test data
- creation of test logs with handover and status report according to ZVEH
- structuring and export function of the test data





NEW!
Test log according to ZVEH

Scope of delivery of the BENNING IT 120



IT 120



BENNING CC 2



BENNING luxmeter type B/type C

BENNING IT 120
Installation Testers

	BENNING IT 120
display	graphic display (illuminated)
low-impedance measurement	0.01 Ω - 2000 Ω
insulation resistance	1 kΩ - 1000 MΩ
line impedance (L-N/L)	0.01 Ω - 2000 Ω
loop impedance (L-PE)	0.01 Ω - 2000 Ω
short-circuit current	0.01 A - 24.4 kA
RCD testing	tripping time, tripping current, contact voltage
phase sequence	yes
voltage, frequency	1 V - 500 V, 45 Hz - 65 Hz
earth resistance	0.01 Ω - 2000 Ω
current (TRUE RMS)	0.1 mA - 20 A (by means of the clamp)
luminous intensity	0.01 lux - 20 klux (by means of sensor)
measured value memory	500 measuring results
interfaces	USB, RS 232
incl. software	*BENNING PC-Win IT 120*
item no.	044101

Scope of delivery of the installation testers

	BENNING IT 110	BENNING IT 120
tester incl. carrying case / carrying strap	x	x
switchable probe tip	x	x
test cable with shock-proof plug	x	x
universal test cable, 3 x L = 1.5 m	x	x
3 x test probe, 3 x crocodile clips	x	x
charger with 6 NiMH storage batteries (AA)	x	x
PC software BENNING PC-Win IT 120		x
USB and RS 232 cable		x

Optional accessories for BENNING IT 120

Current clamp adapter ***BENNING CC 2***	
0.5 A - 20 A AC (200 A AC)	**item no. 044110**
Illumination sensor ***BENNING luxmeter type B***	
Accuracy: 5 %	**item no. 044111**
Illumination sensor ***BENNING luxmeter type C***	
Accuracy: 10 %	**item no. 044112**
Earthing set consisting of 2 earth rods and 3 test cables	**item no. 044113**



Earthing set