



Safety Instruments **BENNING IT 101, IT 110 and IT 120 B** 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 leads, magnetic hook, alligator clips, rubber protective frame and batteries



CAT IV 600 V
TRUE RMS

IT 101



IT 110



BENNING TA 5

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 k Ω – 20 G Ω
resistance	0.01 Ω – 40 k Ω
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 leads
measured value memory	500 measuring results
measuring category	CAT IV 600 V
item no.	044033

BENNING IT 110, BENNING IT 120 B

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 RCDs with nominal fault currents of 10/30/100/300/500/1000 mA
- 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

BENNING IT 110

Installation Tester

	BENNING IT 110
display	graphic display (illuminated)
low-impedance resistance	0.01 Ω – 2000 Ω
insulation resistance	1 k Ω – 1000 M Ω
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
type AC, A	yes
phase sequence	yes
voltage, frequency	1 V – 500 V, 45 Hz – 65 Hz
item no.	044100

Optional accessories for

BENNING IT 101/IT 110/IT 120 B

40 m measurement cable **BENNING TA 5** with practical winder, strap, for the measurement of protective and bonding conductors, connection: \varnothing 4 mm safety test

item no. 044039



Scope of delivery BENNING IT 101