



OUR

INSTALLATION & DEVICE TESTERS

TESTBOY

TV 431

DIGITAL INSULATION TESTER



THE SPECIFICATIONS

	TESTBOY TV 431		
INDICATION	Large LC display with bar graph display		
INSULATION RESISTANCE	0.01 M Ω –100 G Ω		
TEST VOLTAGE (TEST CURRENT MAX. 3 mA)	250 V DC 500 V DC 1000 V DC 2500 V DC	0 – 250 M Ω 0 – 500 M Ω 0 – 1000 M Ω 0 – 1 G Ω	$\pm 3\%$, ± 5 digits $\pm 3\%$, ± 5 digits $\pm 3\%$, ± 5 digits $\pm 3\%$, ± 5 digits
RESISTANCE TESTING	up to 200 Ω		
CONTINUITY TEST	Signal tone upon resistance < 3 Ω		
AC VOLTAGE	0 – 200 V 200 – 750 V	0.1 V 1 V	$\pm 1.5\%$, ± 5 digits $\pm 1.5\%$, ± 5 digits
DC VOLTAGE	0 – 200 V 200 – 1000 V	0.1 V 1 V	$\pm 1.5\%$, ± 5 digits $\pm 1.5\%$, ± 5 digits
AUTO POWER-OFF	Yes		
DATA-HOLD FUNCTION	Yes		
MEASURED VALUE MEMORY	For 20 measured values		
RELATIVE VALUE MEASUREMENT	Yes		
OVER-VOLTAGE CATEGORY	CAT IV 600 V / CAT III 1000 V		
DIMENSIONS	193 x 150 x 75 mm		
WEIGHT	1245 g		
VOLTAGE SUPPLY	6 x 1.5 V C LR14		
SCOPE OF DELIVERY	inc. test lead set and carrying case		

YOUR BENEFITS

- // Test with four selectable test voltages (250 V, 500 V, 1000 V, 2500 V)
- // Continuity test
- // DC and AC voltage measurement

Testboy has developed the Testboy TV 431 digital insulation tester for simple testing of the insulation resistance of devices, electrical systems and circuits. Four selectable test voltages up to 2500 V enable especially meaningful measurement results. The ability to perform AC and DC voltage measurements and continuity and resistance measurements considerably extends the area of application.

TESTBOY

TV 441

DIGITAL EARTH RESISTANCE TESTER



I admit freely, earthing measurement in existing systems is a complex issue which the normal fitter would rather ignore.



THE SPECIFICATIONS

	TESTBOY TV 441	
INDICATION	LC display with bar graph display	
EARTH RESISTANCE	0 – 29.99 Ω 30 – 99.99 Ω 100 – 999 Ω 1 – 4 k Ω	$\pm 2\%$, ± 6 digits $\pm 3\%$, ± 3 digits $\pm 3\%$, ± 3 digits $\pm 3\%$, ± 3 digits
EARTH VOLTAGE	0 – 200 V, 50/60 Hz	$\pm 1.5\%$, ± 5 digits
MEASUREMENT SYSTEM	Constant current, 3 mA (800 Hz)	
AUTO POWER-OFF	After approx. 15 minutes	
MEASURED VALUE RECORDING	Max., Min., average value	
RELATIVE VALUE MEASUREMENT	Yes	
MEASURED VALUE MEMORY	Yes (for 100 measured values)	
OVER-VOLTAGE CATEGORY	CAT III 300 V	
STANDARD	IEC/EN 61010-1 (DIN VDE 0411)	
DIMENSIONS	193 x 150 x 75 mm	
WEIGHT	955 g	
VOLTAGE SUPPLY	6 x 1.5 V AA, LR06	
SCOPE OF DELIVERY	inc. earth rod, test lead set and carrying case	

YOUR BENEFITS

- // Auto power-off
- // Measured value memory for 100 measured values

Earthing systems and their connections are subject to the influence of atmospheric conditions. The earth electrodes are also subject to corrosion resulting from the water and salts in the soil. The Testboy TV 441 digital earth resistance tester is designed for checking the resistance between the reference earth and the connection point of the earthing system in accordance with IEC/EN 61010-1 (DIN VDE 0411). To conduct the measurement, an alternating current is fed between the auxiliary earthing rod and the earth electrode to be measured. The voltage drop is measured and the earth resistance is determined (three conductor method) with a probe positioned in the area of the reference earth of the earth to be measured.

TESTBOY

TV 445

INSTALLATION TESTER DIN VDE 0100-600



THE SPECIFICATIONS

	TESTBOY TV 445
INDICATION	128 x 64 pixels with background lighting and integrated Good/Bad display indication
VOLTAGE MEASUREMENT	0-550 V AC
EARTH RESISTANCE MEASUREMENT	0-9999 Ω
INSULATION RESISTANCE TEST VOLTAGE	0-999 MΩ 50 V, 100 V, 250 V, 500 V, 1000 V
RCD TESTING	Type A, AC
CONTACT VOLTAGE RCD-UC	0-100 V
TRIP-OUT TIME	0-2500 ms
TRIP-OUT CURRENT	10 mA, 15 mA, 30 mA, 100 mA, 300 mA, 500 mA, 1000 mA
OPERATING TEMPERATURE	0-40 °C
OVER-VOLTAGE CATEGORY	CAT III 600 V, CAT IV 300 V
TEST STANDARDS	DIN VDE 0100-600, ÖVE E8001, NIN/NIV
HOUSING	Robust plastic with integrated magnetic clamp
VOLTAGE SUPPLY	6 x NiMH battery or battery AA
SCOPE OF DELIVERY	inc. universal test lead 3 x 1.5 m, test cable for Schuko sockets, 3 probes (blue, black, green), 3 crocodile clips (blue, black, green), mains adapter and batteries, carry strap, quick guide, product test data and carrying case

YOUR BENEFITS

- // Auto power-off
- // Measured value memory for 100 measured values

The Testboy TV 445 installation tester enables checks in accordance with DIN VDE 0100-600. It is particularly easy to operate, not least due to the large LC display and specific help screens, which provide exact descriptions of how to perform a measurement. Already stored safety and RCD (FI) characteristics evaluate the result using a Good/Bad message.

With FI measurement, an automatic mode performs all requisite measurements sequentially. The Testboy TV 445 is an easy-to-use DIN VDE 0100 measuring instrument. This lightweight, robust and ergonomic instrument with an integrated magnet holder enables you to work without getting tired.

TESTBOY

TV 455

Testboy
GmbH, Germany
Stands For Quality
Since 1953

DIN VDE 0100-600 INSTALLATION TESTER
WITH COMPLETE EVALUATION SOFTWARE



THE SPECIFICATIONS

	TESTBOY TV 455
INDICATION	128 x 64 pixels with background lighting and integrated Good/Bad display indication
VOLTAGE MEASUREMENT	0-550 V
EARTH RESISTANCE MEASUREMENT	0-9999 Ω
INSULATION RESISTENCE	0.15 MΩ bis 1 GΩ
TEST VOLTAGE	50 V, 100 V, 250 V, 500 V, 1000 V
RCD TESTING	Type A, AC, B
CONTACT VOLTAGE RCD-UC	0-100 V
TRIP-OUT TIME	0-2500 ms
TRIP-OUT CURRENT	10 mA, 30 mA, 100 mA, 500 mA, 1000 mA
MEASURED VALUE MEMORY	1900 measured values
OVER-VOLTAGE CATEGORIES	CAT III 600 V, CAT IV 300 V
TEST STANDARDS	DIN VDE 0100-600, ÖVE E8001, NIN/NIV
OPERATING TEMPERATURE	0-40 °C
HOUSING	Robust plastic with integrated magnetic clamp
INTERFACE	USB
VOLTAGE SUPPLY	6 x NiMH battery or battery AA
SCOPE OF DELIVERY	inc. universal test lead 3 x 1.5 m, test cable for Schuko sockets, probes, crocodile clips, mains adapter and batteries, carry strap, quick guide, CD with PC software, factory calibration certificate and carrying case

YOUR BENEFITS

- // Testing in accordance with DIN VDE 0100-600, ÖVE E8001, NIN/NIV
- // USB interface and PC software
- // Testing of AC/DC sensitive RCDs (TYPE B)
- // Integrated test lead calibration
- // Protocol in accordance with ZVEH (optional)

Its counterpart the Testboy TV 445 is highly respected in the specialist world. The further developed Testboy TV 455 is just as suitable (impressively so) for tests performed in accordance with DIN VDE 0100-600. It is also equipped with an integrated test lead calibration. The large LCD display with integrated background lighting makes it easy to read off results, notifications, measurement parameters and messages. Two GOOD/BAD LED indicators are located on the side of the LC display. A USB interface means that the measurement results (up to 1,900 measured values) can be easily evaluated using the PC software included in the scope of delivery. It enables the testing of TYPE B AC/DC sensitive RCDs.

TESTBOY TV 465

DEVICE TESTER DIN VDE 0701/0702



THE SPECIFICATIONS

	TESTBOY TV 465
INDICATION	128 x 64 pixels with background lighting and integrated Good/Bad display indication
PROTECTIVE CONDUCTOR RESISTANCE TEST CURRENT	0-1999 Ω 200 mA
INSULATION RESISTANCE TEST VOLTAGE	0-199.9 M Ω up to 500 V DC
ALTERNATIVE LEAKAGE CURRENT	0-20.0 mA
MEASURING VOLTAGE	0-300 V
POLARITY TESTING	Test voltage <50 V AC
MEASUREMENT RANGE SELECTION	Automatic
OVER-VOLTAGE CATEGORY	CAT II 300 V
PROTECTION CLASS	I, II, III
TEST STANDARDS	DIN VDE 0701-0702, DGUV specification 3, BetrSichV, ÖVE E8701/E8702
DIMENSIONS	235 x 140 x 80 mm
WEIGHT	1195 g
INTERFACES	USB and RS-232
VOLTAGE SUPPLY	6 x 1.2 V NiMH battery or 6 x 1.5 V AA
SCOPE OF DELIVERY	inc. user manual, mains adapter and batteries, system carrying case, test lead with test probe and crocodile clip
ACCESSORIES (OPTIONAL)	Memory expansion and software, USB interfaces cable

YOUR BENEFITS

- // Testing in accordance with DIN VDE 0701-0702, DGUV regulation 3, BetrSichV, ÖVE E 8701/E 8702
- // Integrated compensation module
- // Menu-controlled help function
- // Battery capacity sufficient for approx. 2600 test objects (depending on the number of measurements)
- // Screening test possible

The Testboy TV465 is a mains-independent device tester for testing mobile devices in accordance with DIN VDE 0701/0702. The instrument is easy to operate, permitting quick and easy testing of electrical equipment or tools with an ON / OFF switch, heating devices, motor devices, lamps, multiple distributors and household appliances. Pre-programmed or self-defined test sequences, the menu-assisted help function and the Good/Bad messages means that the Testboy TV465 is especially easy to operate, enabling quick and easy testing.

TESTBOY TV 470

VDE TESTER DIN 0701/0702/EN 62353



THE SPECIFICATIONS

	TESTBOY TV 470	
INDICATION	128 x 64 pixels with background lighting	
PROTECTIVE CONDUCTOR RESISTANCE	0.1-2 Ω	±10 %
INSULATING RESISTANCE	0.1-200 MΩ	±10 %
CONTACT CURRENT	0.1-20 mA	±5 %
SUBSTITUTE LEAKAGE CURRENT	0.1-20 mA	±5 %
LOAD CURRENT	0.2-16.0 A	±5 %
CAPACITY	50-3700 V A	±5 %
PELV TEST	from 25 V eff.	
INPUT CURRENT	Max. 16 A	
DATA MEMORY	up to 500 test objects	
OVER-VOLTAGE CATEGORY	CAT II 600 V	
TEST STANDARDS	DIN VDE 0701/0702, EN 62353	
OPERATING TEMPERATURE	0-40 °C	
DIMENSIONS	250 x 170 x 55 mm	
WEIGHT	1445 g	
INTERFACE	USB	
VOLTAGE SUPPLY	230 V ±10 %; 50 Hz ±2 %	
SCOPE OF DELIVERY	incl. test lead set, Windows® software CD, USB connection cable, carrying case, mains lead and bar code scanner	

YOUR BENEFITS

- // Specified test sequence with Good/Bad message
- // Help screen for each measurement
- // Bar code scanner
- // Protocol software
- // DAkKS calibration certificate logging

The Testboy TV 470 is a handy test instrument designed for safety and repeat testing of mobile equipment in accordance with DIN VDE 0701/0702 and EN 62353. The level of safety required for mobile devices can only be guaranteed by regular testing. The self-explanatory operability of the Testboy TV 470 and its logging software and DAkKS calibration certificate enables companies to carry out checks and documentation themselves in accordance with the standards.

The ability to run semi-automatic test sequences saves a lot of time. The bar code scanner included in the scope of delivery means that the annual check need only scan the instrument, perform the test and load the data in the software. This automatically assigns the results to the correct customer in the database.