

Professional measuring and test instruments



65
YEARS
Testboy

THE CATALOG
2018 | 2019

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Professional measuring and test instruments

A history of 65 years of success

Dear Customers,

The first Testboy continuity tester were developed in 1953. This laid the foundation for today's Testboy products, success. A success story, which represents the tradition of the family business and the pioneering spirit of the required measuring and test equipment on the market.

The slogan "from the experience to the practice" is today more important than ever. The Testboy company became one of the market leaders, through continuous development of the assortment with focus on safety and quality.

We guarantee the continuation and expansion of our customer services and deliverability, as well as the adaptation of our product range to the market conditions for the future.

We thank you for the successful cooperation over the last 65 years. You can find our novelties included in this catalog.

Best regards from Vechta,
Your Testboy team





- | 1953 Establishment of Ludwig Mers as an electrical installation company
- | 1960 Ludwig Mers GmbH & Co. KG Elektrotechnische Spezialfabrik
- | 1993 Takeover of Ludwig Mers GmbH & Co. KG by the present Managing Director
- | 1997 Construction of the new company building
- | 2000 Expansion of the warehouse in Vechta
- | 2005 Change of the company name to Testboy GmbH
- | 2005 Construction of an office and warehouse building in Vechta
- | 2008 Expansion of the production facilities and warehouse in Vechta
- | 2013 60-year company celebration, as well as extension of the stores and offices



The first Testboy continuity tester

Due to the most modern manufacturing technologies, Testboy GmbH has developed into one of the leading manufacturers for robust and professional measurement and testing devices. Our TÜV-/GS tested, user-friendly and long service life products are internationally known under the brand names "Testboy", "Testavit" and "Schuki". In order to always continuously satisfy the requirements of our customers, we permanently continue to develop our range of products taking into consideration the applicable standards and laws. Thereby, we place particular value on the clever combination of as many functions as possible in one device.

Quality and service is top priority at Testboy!

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General information and safety information

These days, measuring instruments and testers are essential tools when carrying out construction, repair and maintenance tasks involving electrical devices and installations. Modern test instruments should help the user to carry out safety checks, troubleshooting and function tests quickly, safely and reliably. Internationally valid safety standards for the safety of electrical measuring and control equipment are drawn up and ratified by the IEC (International Electrotechnical Commission). This guarantees that tests are carried out according to the same criteria and guidelines all over the world.

Measuring and test instruments are tested as follows:

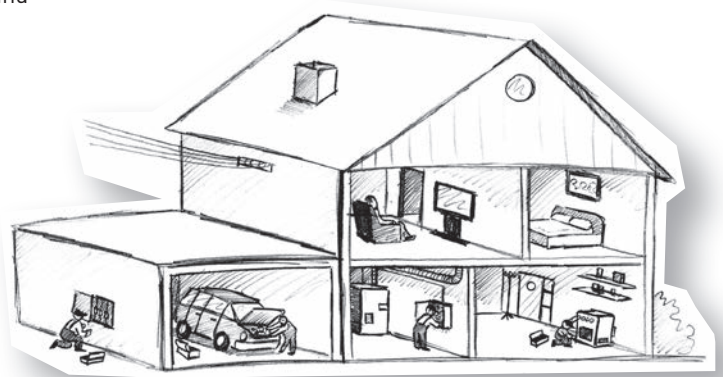
- CAT II 600 V** | 4000 V Peak surge voltage 12 Ohm source
- CAT II 1000 V** | 6000 V Peak surge voltage 12 Ohm source
- CAT III 600 V** | 6000 V Peak surge voltage 2 Ohm source
- CAT III 1000 V** | 8000 V Peak surge voltage 2 Ohm source
- CAT IV 600 V** | 8000 V Peak surge voltage 2 Ohm source
- CAT IV 1000 V** | 12000 V Peak surge voltage 2 Ohm source

Measuring instruments are classed according to 3 different categories that indicate the ranges for which they are approved:

- CAT II** | Electrical circuits that are directly connected to the mains
 Socket outlets and long branch lines
 All socket outlets that are more than 10 m away from CAT III
 All socket outlets that are more than 20 m away from CAT IV
- CAT III** | In building installation, e.g. distribution boards, cabling, socket outlets
 Supply cables and short supply leads
 Distributor boards
 Socket outlets for large loads with short leads for supplying electrical energy
 Lighting systems for large buildings
 Supplies
 Busbars
- CAT IV** | At the source of the low voltage installation, e.g. electricity meters, main terminal, primary overcurrent protective devices
 In the open and supply cable feed
 Supply cables from the connection point to the building
 Connection between the measuring instrument and the connection point
 Overhead lines to individual buildings
 Underground cables to water pumps

In order to document that the products of a manufacturer comply with IEC/EN 61010-1, the manufacturer can have these products tested by an accredited test body to check if they conform to the requirements laid out in the standard. Once a test has been passed, the manufacturer is entitled to attach the corresponding quality certificate to its product.

As a safety-conscious and responsible manufacturer, Testboy has its products certified by the TÜV-SÜD Produkt Service GmbH.





Continuity testers

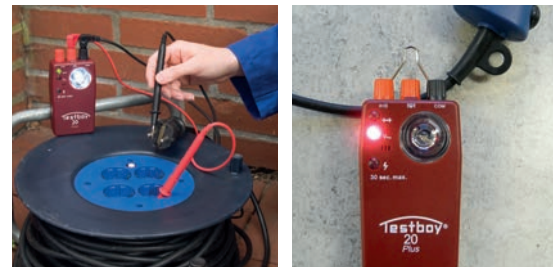
Testboy 20 Plus

Continuity tester with external voltage protection

The Testboy 20 Plus is the further development of the most sold continuity tester Testboy 2 in Germany. Due to the non-contact voltage sensor, AC voltages can be detected through the insulation. Defective lamps in chains of Christmas lights, or similar, are indicated accurately within seconds. The current warner installed, warns of a voltage that is a risk to life. The electronics also enable a single-pole phase search.

How you benefit

- | Reliable continuity tester
- | Non-contact voltage sensor
- | High-performance LED torch



SPECIFICATIONS

| | Testboy 20 Plus |
|-----------------------------|---------------------------------------|
| Indication | Optical 0–20 Ω |
| | Acoustic 0–250 Ω |
| Test voltage | 4.5 V |
| Test current | Optical ~10 mA |
| | Acoustic ~2 mA |
| External voltage protection | Up to 300 V |
| Overvoltage category | CAT II 300 V |
| Integrated LED torch | Yes |
| Standard | EN 61010-1:2010 |
| Dimensions | 120 × 60 × 30 mm |
| Weight | 90 g (excl. battery) |
| Power supply | 3 × 1.5 V |
| Colour | Red |
| Scope of delivery | 2 test leads |
| Accessories (optional) | Incl. Crocodile clip Carrying case |





Voltage tester

Testboy 10, 11, 111

Non-contact voltage tester

The non-contact voltage testers, Testboy 10, 11 and 111, detect live conductors on cable connections, cable drums, sockets, switches, junction boxes etc. Due to capacitive measurement procedures, no current flow is required and interruptions can be indicated quickly and accurately.

How you benefit

- | Capacitive measurement procedure
- | Alarm signal (Testboy 11, 111)
- | LED torches (Testboy 111)
- | CAT III 1000 V / CAT IV 600 V



SPECIFICATIONS

| | Testboy 10 | Testboy 11 | Testboy 111 |
|----------------------|---|--------------------|--------------------|
| Indication | Optical | Optical + acoustic | Optical + acoustic |
| Measuring range | 110–1000 V AC | | |
| Overvoltage category | CAT III 1000 V / CAT IV 600 V | | |
| Integrated LED torch | No | No | Yes |
| Standard | EN 61010-1:2010 | | |
| Housing | ABS synthetic material, resistant to breaking by impact | | |
| Dimensions | 142 × 26 mm | 142 × 26 mm | 160 × 25 mm |
| Weight | 22 g | 22 g | 45 g |
| Power supply | 2 × 1.5 V AAA Micro, LR03 | | |
| Colour | Red | | |



Testboy 110, 113, 114

Non-contact voltage tester from 12 V AC

From a voltage of 12 V, the non-contact voltage tester Testboy 110, 113 and 114 detects a live conductor, amongst others, also in the low volt systems. Due to the capacitive measurement procedure, invisible brakes in the cables or a defective lamp in a chain of light can be accurately detected within a few seconds.

How you benefit

- | Capacitive measurement procedure
- | Measurements from 12 V
- | LED torch
- | Vibrating indication (Testboy 114)



*Product video at
www.testboy.de*

SPECIFICATIONS

| | Testboy 110 | Testboy 113 | Testboy 114 |
|----------------------------|---|--------------------|---------------------|
| Indication | Optical | Optical + acoustic | Optical + vibrating |
| Measuring range | 12 – 1000 V AC | | |
| Overvoltage category | CAT III 1000 V / CAT IV 600 V | | |
| Integrated LED torch light | Yes | | |
| Standard | EN 61010-1:2010 | | |
| Housing | ABS synthetic material, resistant to breaking by impact | | |
| Dimensions | 160 × 25 mm | | |
| Weight | 45 g | | |
| Power supply | 2 × 1.5 V AAA Micro, LR03 | | |
| Colour | Red | | |



Testboy 105

Non-contact voltage tester with LED lamp

The non-contact voltage tester Testboy 105 detects voltage-carrying conductors from 12 V AC. Due to optical, acoustic and vibrating indication, it is especially easy and reliable to use. Due to the capacitive measurement procedure, invisible interruptions in the cables can be identified within a few seconds with only a few millimetres tolerance.

How you benefit

- | Capacitive measurement procedure
- | Optical, acoustic and vibrating indications
- | Measurements from 12 V AC
- | LED flashlight
- | CAT IV 1000 V
- | IEC/EN 61010-1 (DIN VDE 0411)



SPECIFICATIONS

| | Testboy 105 |
|---------------------------|--|
| Indication | Optical, acoustic, vibrating |
| Measuring range | 12-1000 V AC |
| Overvoltage category | CAT IV 1000 V |
| Integrated LED flashlight | Yes |
| Standard | IEC/EN 61010-1 (DIN VDE 0411) |
| Housing | ABS synthetic material, resistant to breaking by impact |
| Dimensions | 160 x 25 mm |
| Weight | 45 g |
| Power supply | 2 x 1.5 V AAA Micro |





Magnetic field testers

Testboy 15, 130

Non-contact magnetic field testers

The magnetic field testers, Testboy 15 and Testboy 130, are suitable for rapid and precise testing of electro-magnetic switches and valves. Their tip lights up to indicate the presence of permanent, DC or AC magnetic fields. Thereby, they are so sensitive that very often it is not necessary to remove covers or cladding from machines and the function check can be carried out without any setting-up time or stopping the machine.

How you benefit

- | Non-contact checking of all magnetic fields
- | High-performance LED torch (Testboy 130)



SPECIFICATIONS

| | Testboy 15 | Testboy 130 |
|----------------------------|--------------------------------|-------------|
| Indication | Optical, LED | |
| Measurement ranges | All magnetic fields | |
| Integrated LED torch light | No | Yes |
| Standard | EN 61010-1:2010 | |
| Dimensions | 142 x 26 mm | 160 x 25 mm |
| Weight | 22 g | 45 g |
| Power supply | 2 x 1.5 V Type AAA Micro, LR03 | |
| Colour | Black | |





Two-pole voltage testers

Testboy 41

Two-pole voltage tester

The Testboy 41 convinces with a user-friendly design and a robust housing, which guarantees a long operational readiness. The two-pole voltage tester shows DC and AC voltages in the range from 6 to 1000 V to reliably. In addition, the electronics allow the phase search to the protective conductor.

How you benefit

- | Overvoltage category CAT III 1000 V / CAT IV 600 V
- | Voltage indication up to 1000 V AC / DC
- | Continuity test
- | T-RMS for non-sinusoidal voltage.
- For example for the industry (Model TB 41 DUO)



SPECIFICATIONS

| | Testboy 41 LED | Testboy 41 LED Plus | Testboy 41 DUO |
|---------------------------------|-------------------------------|---------------------|----------------------|
| Indication | Optical, LED | Optical, LED | Optical, LED y LCD |
| Ranging | Automatic | Automatic | Automatic |
| Voltage range | 6-1000 V CA/CC | 6-1000 V CA/CC | 6-1000 V CA/CC T-RMS |
| Two pole phase sequence testing | - | Yes | - |
| FI/RCD check test | - | Yes | - |
| Polarity | Yes (LED) | Yes (LED) | Yes (LCD) |
| Overvoltage category | CAT III 1000 V / CAT IV 600 V | | |
| Continuity test | 0-200 kΩ with acoustic signal | | |
| Single pole phase test | Yes | | |
| PELV indication | Optical and vibrating | | |
| Auto-Power-Off | Yes | | |
| 4 mm test tip adapter | Removable | | |
| Protection class | IP 65 | | |
| Standard | EN 61243-3:2014 | | |
| Dimensions | 255 x 80 x 39 mm | | |
| Weight | 250 g | | |
| Power supply | 2 x 1,5 V AAA | | |
| Accessories (optional) | Carrying case | | |



Testboy Profi III LED

Two-pole voltage tester with FI-Test

The new Testboy Profi III LED is the consequential further development of our popular Testboy Profi LED Plus. It convinces due to its user-friendly handling, the robust, safe construction and conforms to all requirements placed on modern voltage testers by a specialist. Due to the high safety classification, CAT IV 1000 V, it is also suitable for measurements on hybrid and electric vehicles, as well as photovoltaic installations.

How you benefit

- | Highest safety level CAT IV 1000 V
- | Practical one-hand operation
- | Robust, safe construction
- | Testing without finger contact



SPECIFICATIONS

| | Testboy Profi III LED |
|---------------------------------|-------------------------------------|
| Indication | Optical, LEDs |
| Ranging | Automatic |
| Voltage range | 6 – 1000 V AC 6 – 1400 V DC |
| Overvoltage category | CAT IV 1000 V |
| Continuity testing | 0 – 200 kΩ optically/acoustically |
| Phase indication | > 100 V AC |
| Single-pole phase testing | Yes |
| Two-pole phase sequence testing | Yes |
| FI/RCD check test | 30 mA at 230 V AC using two buttons |
| Diode test | Yes |
| Polarity | Yes (+,- LED) |
| PELV indication | optical and vibrating |
| Measurement position lighting | White LED |
| Auto-Power-Off | Yes |
| 4-mm test tip adapter | Removable |
| Protection class | IP 65 |
| Standard | EN 61243-3:2014 |
| Dimensions | 300 × 75 × 20 mm |
| Weight | 270 g |
| Power supply | 2 × 1.5 V AAA |
| Colour | Red/black |
| Accessories (optional) | Carrying case |



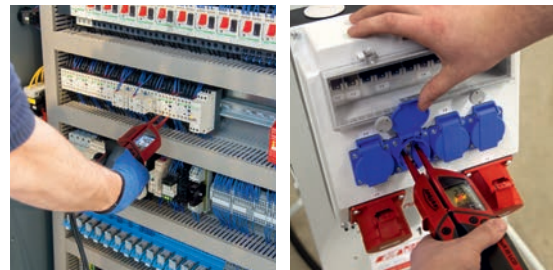
Testboy Profi III LCD

Two-pole voltage tester with FI-Test

The Testboy Profi III LCD is the new top model of our proven Profi series. The innovative two-pole voltage tester convinces with a wide performance range and practical one-hand operation. It enables tests without finger contact and, due to the highest safety level, CAT IV 1000 V, is also immediately suitable for measurements on hybrid and electric vehicles, as well as photovoltaic installations.

How you benefit

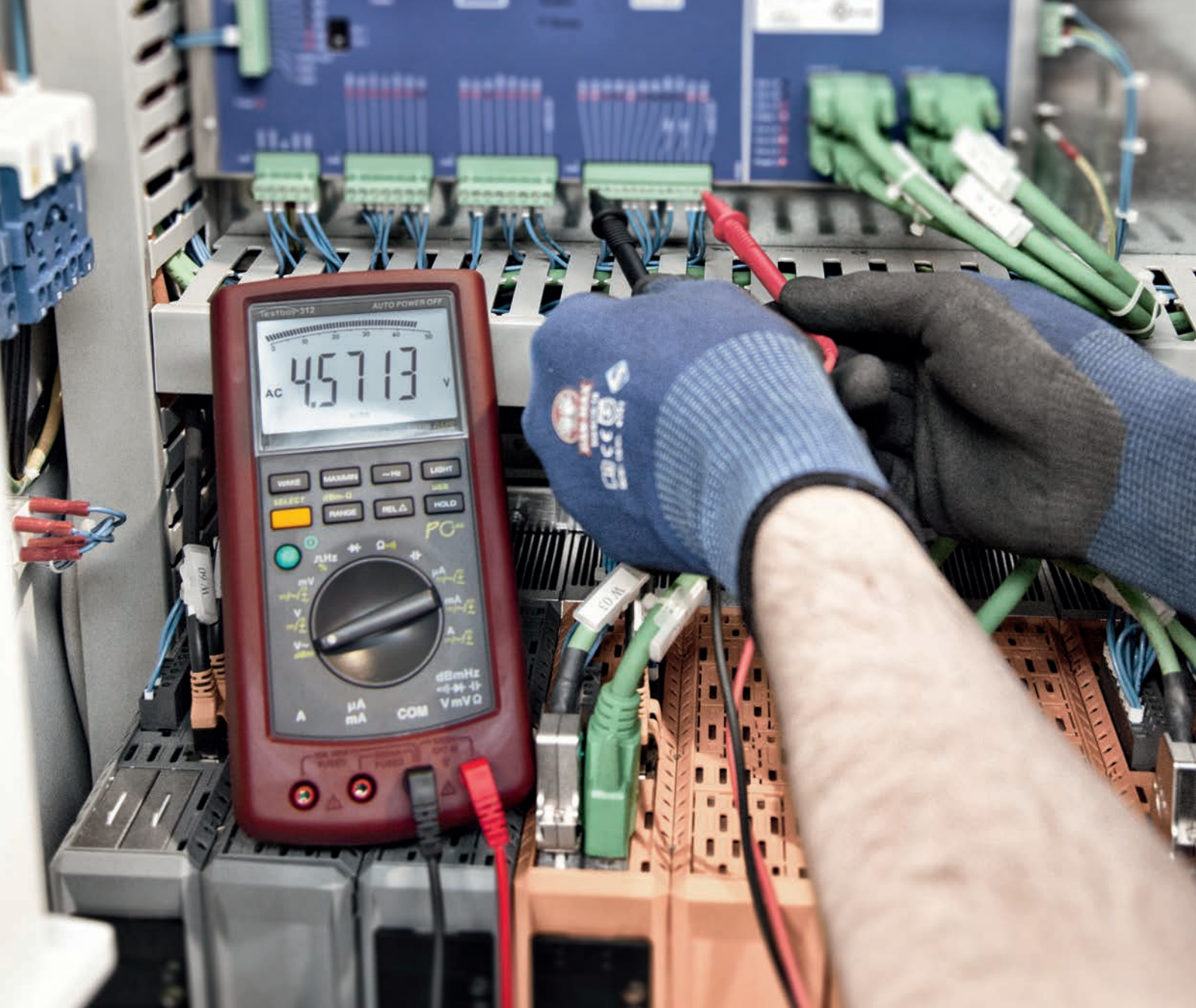
- | Highest safety level CAT IV 1000 V
- | Large, illuminated LCD
- | Voltage indication up to 1000 V AC and 1400 V DC
- | Resistance measurement 10 up to 199,9 kΩ
- | Frequency indication up to 500 Hz
- | T-RMS measurement procedure for non-sinus voltage, e.g. in industry



SPECIFICATIONS

| | Testboy Profi III LCD |
|---------------------------------|--|
| Indication | Optical, LCD |
| Ranging | Automatic |
| Voltage range | 3–1000 V AC (T-RMS/RMS) 4–1400 V DC |
| Overvoltage category | CAT IV 1000 V |
| Resistance testing | 10–199,9 kΩ |
| Continuity testing | 0–10 kΩ with acoustic signal |
| Frequency indication | 0–500 Hz |
| Phase indication | > 100 V AC |
| Single-pole phase testing | Yes |
| Two-pole phase sequence testing | Yes, > 200 V AC |
| FI/RCD check test | 30 mA at 230 V AC using two buttons |
| Polarity | Yes (– in the LCD) |
| PELV indication | Optical and vibrating |
| Measurement position lighting | White LED |
| Data hold function | Voltage and resistance |
| Auto-Power-Off | Yes |
| 4-mm test tip adapter | Removable |
| Protection class | IP 65 |
| Standard | EN 61243-3:2014 |
| Dimensions | 300 × 75 × 20 mm |
| Weight | 270 g |
| Power supply | 2 × 1.5 V AAA (indication of voltages also possible without battery) |
| Colour | Red/black |
| Accessories (optional) | Carrying case |





Multimeters

Testboy 65

Automotive-Multimeter

The Testboy 65 is particularly well suited for application in the automotive and workshop sector. Because, in addition to the standard multimeter functions, it also enables easy measurement of the speed, closing angle and duty cycle. It is extremely robust and convinces in everyday use due to its easy operation.

How you benefit

- | Speed measurement
- | Closing angle measurement (ignition point)
- | Duty cycle measurement
- | LCD with auto. background lighting
- | Data-Hold function



SPECIFICATIONS

| | Testboy 65 | |
|-----------------------------|---|--|
| Indication | LCD with auto. background lighting, 3 1/2 digit, 1999 | |
| DC voltage | 200 mV, 2 V, 20 V, 120 V | ±0.5 %, ±5 digits |
| AC voltage | 50 V | ±1.2 %, ±5 digits |
| DC current | 20 mA, 200 mA | ±1.8 %, ±3 digits |
| | 20 A | ±3.0 %, ±5 digits |
| Resistance | 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ | ±1.0 %, ±5 digits |
| | 2 MΩ | ±1.0 %, ±5 digits |
| | 200 MΩ | ±(measurement value-10) x 5 %, ±5 digits |
| Temperature measurement | -40-0 °C | ±2.0 %, ±8 digits |
| | 0-400 °C | ±2.0 %, ±3 digits |
| | 400-1000 °C | ±1.0 %, ±3 digits |
| Speed measurement | 500-10000 min ⁻¹ | ±3.0 %, ±5 digits |
| Closing angle measurement | 0-120 ° | ±3.0 %, ±5 digits |
| Duty cycle measurement | 0-100 % | ±3.0 %, ±5 digits |
| Frequency measurement | 0-200 kHz | ±2.0 %, ±5 digits |
| Diode test | Supply current approx. 25 mA | |
| Continuity test | 0-45 Ω | |
| max. input voltage | 120 V DC / 50 V AC | |
| Input impedance | 10 MΩ (DCV), 4.5 MΩ (ACV) | |
| Voltage band width AC | 40-400 Hz | |
| Operating temperature range | 0-40 °C (32-104 °F) | |
| Storage temperature range | -10-50 °C (14-122 °F) | |
| Auto-Power-Off | 15 minutes | |
| Data-Hold function | Yes | |
| Dimensions | 180 x 84 x 55 mm | |
| Weight | 335 g incl. battery | |
| Power supply | 1 x 9 V Block | |
| Scope of delivery | Incl. safety measurement lines, K-Type sensor (0-180 °C) and system carrying case | |



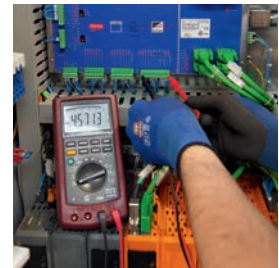
Testboy 312

Digital multimeter with USB interface

The digital multimeter, Testboy 312, is particularly convincing by its high accuracy in measuring. The extremely effective measuring procedure prevents measuring errors in the case of non-sinusoidal or non-linear curves. In addition, it also has important functions, such as relative, Min/Max and frequency measurement and a USB interface, through which all measurement results can be evaluated using Windows software.

How you benefit:

- | Large LCD with bar chart display
- | T-RMS
- | USB interface
- | Auto/Manual Range



SPECIFICATIONS

| | Testboy 312 |
|----------------------|---|
| Indication | 44 mm large, illuminated LCD, 4 3/4 digit |
| DC voltage | 50 mV, 500 mV, 50 V, 500 V, 1000 V ± 0.5 % |
| AC voltage (T-RMS) | 50 mV, 500 mV, 50 V, 500 V, 1000 V ± 0.5 % |
| DC current | 500 µA, 5 mA, 500 mA, 5 A, 10 A ± 0.5 % |
| AC current | 500 µA, 5 mA, 500 mA, 5 A, 10 A ± 1.5 % |
| Resistance | 500 Ω, 5 kΩ, 50 kΩ, 500 kΩ, 5 MΩ ± 0.1 % 50 MΩ ± 0.5 % |
| Duty Cycle | 5 Hz–500 kHz, 1–99 % |
| Logic frequency | 5 Hz–5 MHz ± 0.006%, V _{pp} 2–5 V rectangular |
| Linear frequency | 10 Hz–200 kHz ± 0.006%, V _{pp} 10 mV sensitive |
| Continuity test | With acoustic signal |
| Diode test | Forward voltage in mV |
| Capacity | Up to 5000 µF |
| Ranging | Automatic and manual |
| Auto-Power-Off | 15 minutes |
| Data-Hold function | Yes |
| Overvoltage category | CAT III 1000 V |
| Standard | EN 61010-1; EN 61010-2-033 |
| Dimensions | 200 × 100 × 40 mm |
| Weight | 600 g |
| Colour | Red |
| Power supply | 6 × 1.5 V AAA LR03 |
| PC interface | USB interface |
| Scope of delivery | Incl. carrying case, operating instructions, test leads, Windows software on CD-ROM and USB cable |



Testboy 313

Digital multimeter with automatic measuring range protection

The Testboy 313 is particularly safe when using. Due to automatic protection of the measurement area, erroneous operation is impossible. In addition, the digital multimeter has an easily legible LC display with backlighting.

How you benefit

- | Automatic measuring range protection
- | Large LCD with backlighting
- | Temperature measurement



SPECIFICATIONS

| | Testboy 313 | |
|-----------------------------|--|--|
| Indication | 37 mm large, illuminated LCD | |
| DC voltage | 200 mV, 2 V, 20 V, 200 V 600 V | ±0.5 %, ±3 Digits ±0.8 %, ±5 Digits |
| AC voltage | 2 V, 20 V, 200 V 600 V | ±1.0 %, ±5 Digits ±1.2 %, ±5 Digits |
| DC current | 2 mA, 20 mA 200 mA 10 A | ±1.0 %, ±3 Digits ±1.5 %, ±3 Digits ±2.0 %, ±5 Digits |
| AC current | 2 mA, 20 mA, 200 mA 10 A | ±1.0 %, ±5 Digits ±1.5 %, ±3 Digits ±2.0 %, ±8 Digits |
| Resistance | 200 Ω 2 kΩ, 20 kΩ, 200 kΩ 2 MΩ, 20 MΩ | ±1.0 %, ±5 Digits ±1.0 %, ±5 Digits ±1.0 %, ±5 Digits ±1.5 %, ±5 Digits |
| Diode test | Yes | |
| Continuity test | Yes | |
| Temperature measurement | -20 – 1000 °C with K-Type sensor | |
| Maximum input voltage | 600 V AC/DC | |
| Input impedance | > 7.5 MΩ, type 10 MΩ (AC V & DC V) | |
| AC V bandwidth | 50 – 400 Hz | |
| Frequency measuring range | 0 – 20 kHz | |
| Capacitance measuring range | Up to 20 μF | |
| Fuses | 200 mA (self-resetting) 10 A/1000 V (flick) | |
| Operating temperature range | 0 – 40 °C (32 – 104 °F) | |
| Storage temperature range | -10 – 50 °C (14 – 122 °F) | |
| Overvoltage category | CAT III 600 V | |
| Standard | EN 61010-1; EN 61010-2-033 | |
| Dimensions | 200 × 89 × 38 mm | |
| Weight | 380 g incl. batteries | |
| Power supply | 1 × 9 V 6LR61 | |
| Scope of delivery | Incl. test leads, carrying case, K-Type sensor (0–180 °C) | |



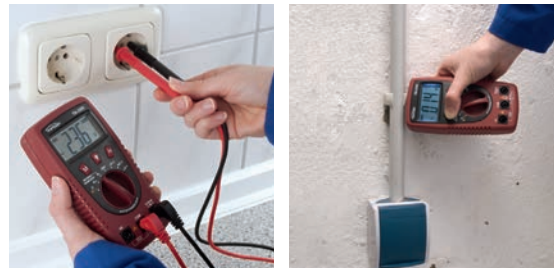
Testboy 2200

Digital multimeter with cable break detector and LED torch

The variable digital multimeter, Testboy 2200, has all functions for universal operation in the sectors of electrical installation, service and industry. It is easy to operate and the safety of the user is increased due to the integrated LED torch, as well as the non-contact cable break detector installed.

How you benefit

- | Non-contact cable break detector
- | LED torch
- | Auto-Range function



SPECIFICATIONS

| | Testboy 2200 | |
|-----------------------------|--|-------------------|
| DC voltage | 200 mV | ±0.5 %, ±3 Digits |
| | 2 V, 20 V, 200 V, 400 V | ±0.8 %, ±5 Digits |
| AC voltage | 2 V, 20 V | ±1.5 %, ±5 Digits |
| | 200 V, 400 V | ±1.5 %, ±5 Digits |
| DC current | 200 µA, 2000 µA | ±1.0 %, ±3 Digits |
| | 4 A | ±1.2 %, ±5 Digits |
| AC current | 200 µA, 2000 µA | ±1.3 %, ±5 Digits |
| | 4 A | ±1.5 %, ±8 Digits |
| Resistance | 200 Ω | ±1.0 %, ±5 Digits |
| | 2 kΩ, 20 kΩ, 200 kΩ | ±1.0 %, ±5 Digits |
| | 2 MΩ | ±1.0 %, ±5 Digits |
| | 20 MΩ | ±1.8 %, ±5 Digits |
| Diode test | Test current 0.6 mA Off-load voltage typ. 1.5 V | |
| Continuity test | Audible signal if resistance <50 Ω | |
| Non-contact voltage test | 100 – 600 V AC | |
| Maximum input voltage | 400 V AC/DC | |
| Input impedance | > 7.5 MΩ, type 10 MΩ (AC V & DC V) | |
| AC V bandwidth | 50 – 400 Hz | |
| Fuses | µA/mA range F 200 mA/400 V 4 A range F4 A/400 V | |
| Operating temperature range | 0 – 40 °C (32 – 104 °F) | |
| Storage temperature range | -10 – 50 °C (14 – 122 °F) | |
| LED torch | White high-performance LED | |
| Auto-Power-Off | 15 minutes | |
| Overvoltage category | CAT II 400 V, CAT III 300 V | |
| Standard | EN 61010-1:2010; EN 61010-2-030:2010; EN 61010-2-033:2012; EN 61010-031/A1:2008 | |
| Dimensions | 140 × 70 × 35 mm | |
| Weight | 250 g incl. batteries | |
| Power supply | 2 × 1.5 V AAA LR03 | |
| Scope of delivery | Incl. test leads CAT III, system carrying case | |



Testboy 3000

Digital multimeter with cable break detector and LED torch

Modern design, the newest technology, as well as an extended range of functions, enables universal operation of the digital multimeter, Testboy 3000, in industry and trade. Due to the ABS housing, resistant to breakage and impacts and the easy operation, it is suitable for measuring under the roughest conditions.

How you benefit

- | ABS housing, resistant to breakage and impacts
- | Non-contact cable break detector
- | LED torch
- | Auto-Range function



SPECIFICATIONS

| | Testboy 3000 | |
|-----------------------------|--|--|
| DC voltage | 200 mV 2 V, 20 V, 200 V, 600 V | ±0.5 %, ±3 Digits ±0.8 %, ±5 Digits |
| AC voltage | 2 V, 20 V 200 V, 600 V | ±1.5 %, ±5 Digits ±1.5 %, ±5 Digits |
| DC current | 200 µA, 2000 µA 10 A | ±1.0 %, ±3 Digits ±1.2 %, ±5 Digits |
| AC current | 200 µA, 2000 µA 10 A | ±1.3 %, ±5 Digits ±1.5 %, ±8 Digits |
| Resistance | 200 Ω 2 kΩ, 20 kΩ, 200 kΩ 2 MΩ, 20 MΩ | ±1.0 %, ±5 Digits ±1.0 %, ±5 Digits ±1.0 %, ±5 Digits ±1.8 %, ±5 Digits |
| Continuity test | Audible signal if resistance < 50 Ω | |
| Diode test | Test current 0.6 mA Off-load voltage typ. 1.5 V | |
| Non-contact voltage test | 100–600 V AC (optical and acoustic) | |
| Maximum input voltage | 600 V AC/DC | |
| Input impedance | > 7.5 MΩ, type 10 MΩ (AC V & DC V) | |
| AC V bandwidth | 50–400 Hz | |
| Operating temperature range | 0–40 °C (32–104 °F) | |
| Storage temperature range | -10–50 °C (14–122 °F) | |
| LED torch | White high-performance LED | |
| Auto-Power-Off | 15 minutes | |
| Overvoltage category | CAT IV 600 V | |
| Standard | EN 61010-1:2010; EN 61010-02-030:2010; EN 61010-031:2002; EN 61010-2-033:2012 | |
| Dimensions | 165 × 85 × 32 mm | |
| Weight | 300 g incl. batteries | |
| Colour | Red/black | |
| Power supply | 2 × 1.5 V AAA | |
| Scope of delivery | Incl. test leads, system carrying case | |



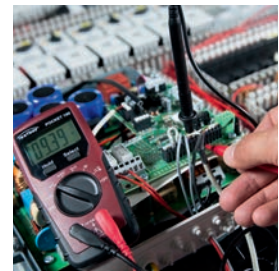
Testboy Pocket 100

Digital Multimeter

The Multimeter Testboy Pocket 100 is a further development of the popular Testboy Pocket. Due to its compact construction, many functions and easy operation, it is a valuable aid not only in handcrafts or in the industrial sector, but also for hobby electricians during all standard measurement tasks.

Your advantages

- | Breakage and impact-resistant ABS housing
- | Highly legible LC display with background illumination
- | Data-Hold function
- | T-RMS



SPECIFICATIONS

| | | Testboy Pocket 100 | |
|-----------------------------|--|--------------------|-----------|
| Indication | LCD with 4 digits | | |
| AC voltage | 0–600 V | ±0.8 % | ±3 digits |
| DC voltage | 0–600 V | ±0.8 % | ±2 digits |
| Resistance | 0–60 Ω | ±2.0 % | ±5 digits |
| Input impedance ACV & DCV | 10 MΩ | | |
| AC voltage bandwidth | 40–1000 Hz | | |
| Frequency measurement | 0–10 MHz | ±1.0 % | ±5 digits |
| Capacity measurement range | 0–60 mF | ±4.0 % | ±3 digits |
| Continuity test | Yes, signal sound in case of resistance < 50 Ω | | |
| Diode test | Yes | | |
| Duty cycle in % | Yes | ±3.0 % | ±3 digits |
| Data-Hold function | Yes | | |
| Measurement range selection | Automatic | | |
| Overvoltage category | CAT III 600 V | | |
| Standard | EN 61010-1, EN 61010-2-33 | | |
| Operating temperature range | 0–40 °C / 32–104 °F (≤ 75 % RH) | | |
| Storage temperature range | -10–50 °C / 14–122 °F (≤ 75 % RH) | | |
| Dimensions | 133 x 62 x 27 mm | | |
| Weight | 115 g incl. batteries | | |
| Colour | Red/black | | |
| Voltage | 2 x 1.5 V AAA, LR03 | | |
| Scope of delivery | Incl. measuring lines | | |





Current measurement clamps

Testboy TV 216N

Digital clamp meter

Due to its variable measuring functions, the digital clamp meter, Testboy TV 216N, can be operated universally. Useful details, such as the large display, manual or automatic ranging and measurement position lighting, makes operation particularly easy and reliable.

How you benefit

- | Large range of functions
- | Easily legible LCD
- | LED Measurement position lighting
- | Contactless frequencies and probe rate
- | T-RMS measurement procedure for non-sinus voltages



SPECIFICATIONS

| | Testboy TV 216N | |
|--|---|---|
| Indication | LCD with 4 digits | |
| AC current T-RMS (40–400 Hz, smallest resolution 10 mA) | 60 A, 600 A | ±3.0 %, ±10 Digits |
| DC current (smallest resolution 10 mA) | 60 A, 600 A | ±3.0 %, ±10 Digits |
| AC voltage T-RMS (40–400 Hz, smallest resolution 100 µV) | up to 600 mV 6 V, 60 V 600 V | ±1.5 %, ±10 Digits ±1.2 %, ±5 Digits ±1.5 %, ±10 Digits |
| DC voltage (smallest resolution 100 µV) | 600 mV, 6 V, 60 V 600 V | ±0.8 %, ±3 Digits ±1.0 %, ±5 Digits |
| Frequency meas. Clamp (smallest resolution 100 mHz) | 600 Hz, 1 kHz > 1 A AC rms | ±1.5 %, ±5 Digits |
| Frequency meas. Jack (smallest resolution 100 mHz) | 600 Hz, 6 kHz, 10 kHz > 0.2 V AC rms | ±1.5 %, ±5 Digits |
| Resistance | 600 Ω, 6 kΩ, 60 kΩ, 600 kΩ, 6 MΩ 60 MΩ | ±1.2 %, ±2 Digits ±2.0 %, ±5 Digits |
| Input resistance | 10 MΩ | |
| Duty cycle | 10–95 %, ±3.0 %, > 1 A AC rms | |
| Frequency range | 10 Hz to 1 kHz | |
| Capacitance measurement | Up to 60 mF | |
| Diode test (smallest resolution 1 mV) | Test current ~1 mA, Test voltage ~3.3 V | |
| Continuity test | Audible signal if resistance <30 Ω | |
| Ranging | Automatic and manual | |
| Measurement position lighting | LED | |
| Data-Hold function | Yes | |
| Overvoltage category | CAT III 600 V | |
| Standard | EN 61010-01:2010; EN 61010-2-030:2010; EN 61010-2-032:2012; EN 61010-2-033: 2012; EN 6110-031/A1:2008 | |
| Dimensions | 220 × 75 × 35 mm | |
| Weight | 340 g | |
| Colour | Red/black | |
| Power supply | 3 × 1.5 V AAA, LR03 | |
| Scope of delivery | Incl. test leads and system carrying case | |



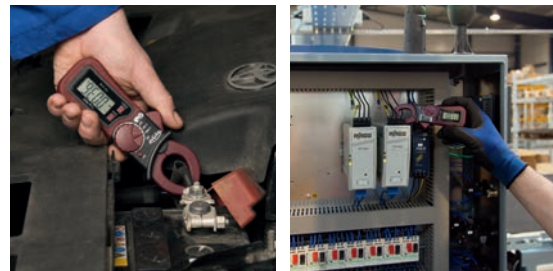
Testboy TV 218

Digital miniature clamp meter

Small but oho! There is no reason for the digital miniature clamp meter, Testboy TV 218, to hide and, due to T-RMS, provides exact measuring results, also at locations difficult to access. In addition, despite the compact construction, it is convincing with useful functions such as Data-Hold or Auto-Power-Off.

How you benefit

- | Extremely compact construction
- | T-RMS
- | Data-Hold function



SPECIFICATIONS

| | Testboy TV 218 | |
|-----------------------------|--|-------------------|
| Indication | LCD with 3 3/4 Digits, 4000 counts | |
| DC current | 40 A, 200 A | ±3.0 %, ±5 Digits |
| AC current (T-RMS) | 40 A, 200 A | ±2.5 %, ±8 Digits |
| Resolution | 0.01 A at 40 A 0.1 A at 200 A | |
| Max. jaw opening | Ø 21 mm | |
| Sampling rate | 3 times per second | |
| Operating temperature range | 0–40 °C / 32–104 °F, <75 %RH | |
| Storage temperature range | -20–60 °C / -4–140 °F, <80 %RH | |
| Data-Hold function | Yes | |
| Auto-Power-Off | Yes | |
| Overvoltage category | CAT III 300 V | |
| Standard | EN 61010-1:2010; EN 61010-02-030:2010; EN 61010-02-032:2012 | |
| Dimensions | 155 × 50 × 25 mm | |
| Weight | 95 g | |
| Colour | Red/black | |
| Power supply | 2 × 1.5 V; LR44 | |
| Scope of delivery | incl. system carrying case | |



Testboy TV 225

Flexible Clamp Meter

Thanks to its diverse range of measuring functions, the flexible Testboy TV 225 Clamp Meter is suitable for universal use. Useful details such as the large display, the automatic measurement range selection and the measuring point illumination make operation of this instrument particularly convenient and reliable.

Your advantages

- | Large diversity of functions
- | Highly legible LC display
- | LED measuring point illumination
- | Contactless measurement of frequencies
- | T-RMS measuring procedure for non-sinusoidal voltages suitable for higher line cross-sections



SPECIFICATIONS

| | Testboy TV 225 | |
|--|---|---|
| Indication | LCD with 4 digits | |
| AC current T-RMS (40 – 1000 Hz) (smallest resolution 10 mA) | 60 A 600 A 3000 A | ±3,0 %, ±5 digits ±3,0 %, ±5 digits ±3,0 %, ±5 digits |
| AC voltage T-RMS (40 – 2000 Hz) (smallest resolution 0,001 V) | 6 V 60 V 600 V | ±1,5 %, ±5 digits ±1,5 %, ±5 digits ±1,5 %, ±5 digits |
| DC voltage (smallest resolution 0,001 V) | 6 V 60 V 600 V | ±1,0 %, ±3 digits ±1,0 %, ±5 digits ±1,0 %, ±5 digits |
| Frequency meas. Clamp (smallest resolution 0,1 Hz) | 40 – 1000 Hz > 1 A AC rms | ±0,5 %, ±5 digits |
| Frequency meas. Jack (smallest resolution 1 Hz) | 40 Hz – 10 kHz > 0,5 V AC rms | ±0,5 %, ±5 digits |
| Resistance | 6 kΩ, 60 kΩ, 600 kΩ, 6 MΩ | ±1,0 %, ±3 digits |
| Input resistance | 2 MΩ | |
| Continuity test | Audible signal if resistance < 50 MΩ | |
| Measurement position lighting | LED | |
| Data-Hold-function | Yes | |
| Overvoltage category | CAT IV 600 V | |
| Dimensions | 324 x 178 x 30 mm | |
| Weight | 210 g | |
| Colour | Red/black | |
| Power supply | 3 x 1,5 V AAA, LR03 | |
| Scope of delivery | Incl. test leads and system carrying case | |





Socket outlet testers

Testavit Schuki 1 LCD/3 LCD

Socket outlet testers

Using the new Testavit Schuki 1 LCD and 3 LCD, specialists easily check to see if sockets, cable drums or connecting cables are correctly connected in 230 V installations. Due to three LEDs, the connection status can be quickly and clearly determined. In addition, through the finger contact, it can be tested to see whether an impermissible, high contact voltage is applied at the protective earth connection. In addition, using the Testavit Schuki 1 LCD, a 30 mA FI circuit breaker (RCD) can be triggered via a pushbutton.

How you benefit

- | Quick and safe checking of installations
- | Finger contact to check the protective earth connection
- | FI test (Schuki 1 LCD)
- | FI test (30 mA @ 230 V AC)



SPECIFICATIONS

| | Testavit Schuki 1 LCD | Testavit Schuki 3 LCD |
|-----------------------|--------------------------------------|-----------------------|
| Indication | Optical, LCD and LED | |
| Operating voltage | 230 V, 50 Hz | |
| Power supply | Via test object, max. 3 mA | |
| FI test | Yes (using test button) | No |
| Rated leakage current | 30 mA @ 230 V AC | no |
| Protection class | IP 40 | |
| Overvoltage category | CAT II 300 V | |
| Standard | EN 61010-1:2010; EN 61010-2-030:2010 | |
| Operating temperature | 0–50 °C | |
| Dimensions | 60 × 60 mm | |
| Weight | 54 g | |
| Scope of delivery | Incl. operating instructions | |



Testavit Schuki 1A/3A

Socket outlet testers

The Testavit Schuki 1A and 3A socket outlet testers are essential test instruments for all professional tradesmen. They indicate all connection errors that are a risk to life at the sockets, cable drums and connection cables in 230-V installations for specific light combinations of the LEDs. Thereby, installations can be checked quickly and safely. The Testavit Schuki 1a also has an FI test function.

How you benefit

- | Quick and safe checking of installations
- | FI test (Schuki 1A)



SPECIFICATIONS

| | Testavit Schuki 1A | Testavit Schuki 3A |
|-----------------------|-------------------------------|--------------------|
| Indication | Optical, LED | |
| Operating voltage | 230 V, 50 Hz | |
| Power supply | Via test object | |
| FI test | Using test button | No |
| Rated leakage current | 30 mA | No |
| Protection class | IP 40 | |
| Overvoltage category | CAT II 300 V | |
| Standard | IEC/EN 61010-1 (DIN VDE 0411) | |
| Dimensions | 60 × 60 mm | |
| Weight | 40 g | |



Testavit Schuki 2K

Socket test instrument

Using the Testavit Schuki 2K, sockets in 230-V installations can be checked for correct connection of the conductor and an FI test can be carried out. Due to the cable with shockproof plug, this is also easily possible in areas difficult to access.

How you benefit

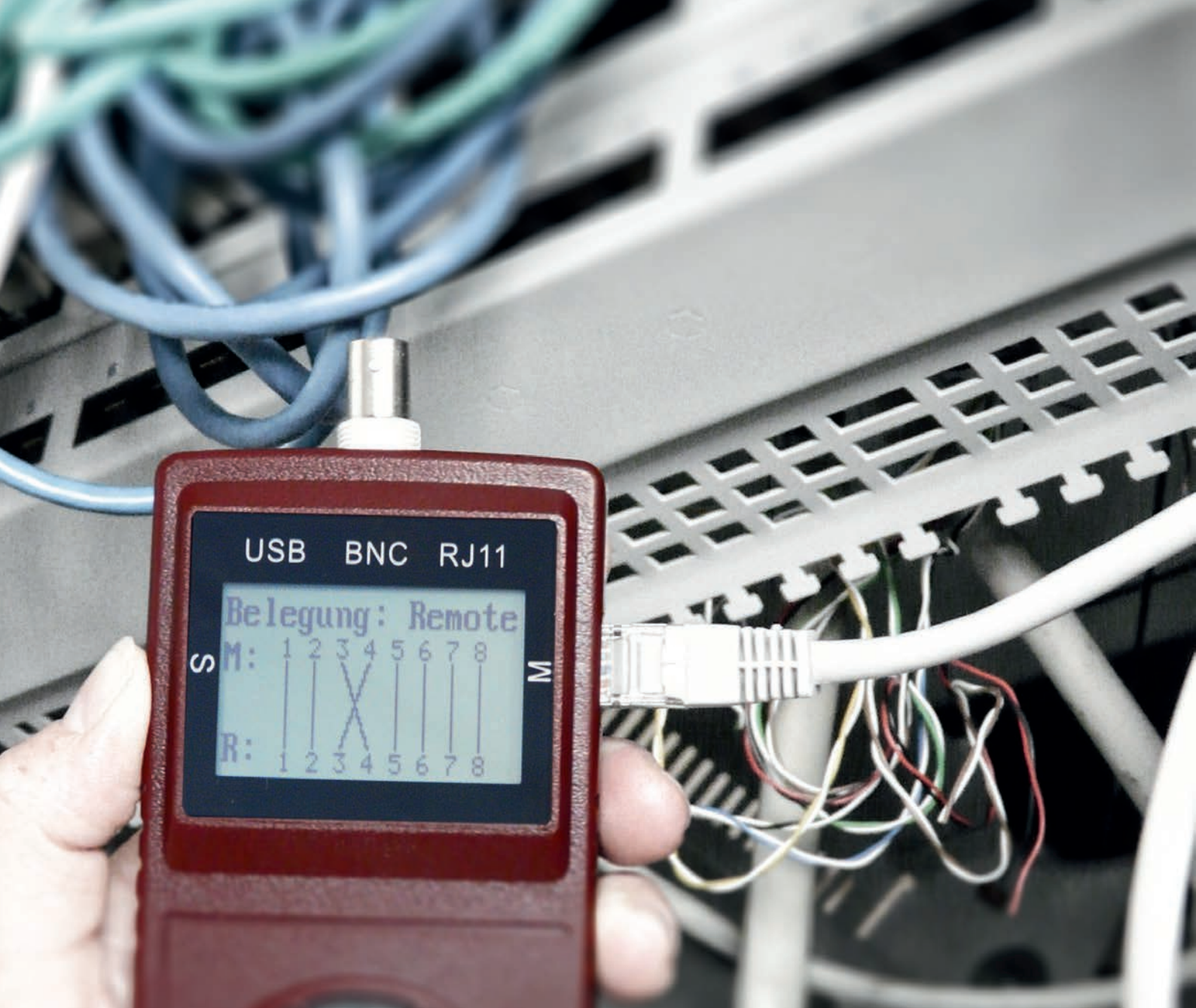
- | Easy checking of sockets difficult to access
- | FI test with adjustable rated leakage current



SPECIFICATIONS

| | Testavit Schuki 2K |
|-----------------------|---|
| Indication | Optical, glow lamps |
| Operating voltage | 230 V, 50 Hz |
| Power supply | Via test object |
| Rated leakage current | 10 mA, 30 mA, 100 mA, 300 mA, 500 mA |
| Trip-out time | 200 ms |
| FI test | Using test button |
| Overvoltage category | CAT II 300 V |
| Standard | EN 61010-1 (DIN VDE 0411) |
| Dimensions | 100 x 50 x 75 mm |
| Weight | 250 g |
| Colour | Grey |
| Scope of delivery | Incl. operating instructions and system carrying case |





Cable detectors,
wall scanner,
network testers

Testboy 26

Cable detector set with LED torch

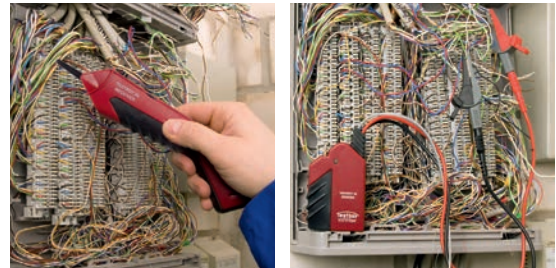
The cable detector, Testboy 26, makes it easier to find cables in the wall and cable ducts. Here, an optional adapter or carrier signal from the transmitter is modulated by means of crocodile clips or to one end of the cable. The other end of the cable can then be found quickly and precisely with the receiver without contact or having to strip the cable insulation. Two-core cables can also be exactly identified in telecommunication and network technology.

How you benefit

- | Variable setting of the volume
- | Maximum cable length 8000 m (unloaded)
- | LED flashlight



incl. adapter



SPECIFICATIONS

| | Testboy 26 |
|-------------------|--|
| Indication | Continuous or alternating tone |
| LED flashlight | yes |
| Standard | EN 61010-1:2010; EN 61010-2-030:2010; EN 61010-031/A1:2008 |
| Dimensions | 230 × 55 × 23 mm (receiver) 55 × 57 × 23 mm (transmitter) |
| Weight | 244 g |
| Colour | Red/black |
| Power supply | 2 × 9 V Block |
| Scope of delivery | System carrying case, operating instructions and adapter kit with coax, F and RJ11 adapter |



Testboy 28

Network tester for USB, RJ11, RJ45 and BNC cables

The Testboy 28 is a handy multifunction network tester and cable length measuring device with LC display, sound generator and port finder function. Conventional cable formats can be examined for interruption crossover, transposition, short-circuits or split-pairs instantly using it. In addition, the length of the cable can be measured.

How you benefit

- | Easy troubleshooting
- | USB, RJ11, RJ45, BNC cables, Cable length measurement
- | Clear LCD



SPECIFICATIONS

| | Testboy 28 |
|-----------------------|---|
| Indication | LCD |
| Measuring application | USB, RJ11, RJ45, BNC cables Cable length measurement |
| Dimensions | 150 × 65 × 25 mm |
| Weight | 190 g incl. battery |
| Colour | Red |
| Power supply | 1 × 9 V Block |



Testboy 30

Fuse finder

With the fuse finder Testboy 30 can circuit breakers be reliably identified and assigned to the corresponding socket of the respective circuit. The device set consists of two units: the transmitter and the receiver. The receiver can also be used as a contactless voltage tester.

How you benefit

- | Breakage and impact-resistant ABS housing
- | Automatic switch between testing and searching mode
- | Visual and acoustic indication



SPECIFICATIONS

| | Testboy 30 |
|----------------------------------|---------------------------------|
| Voltage range | 100–240 V AC |
| Frequency range | 50–60 Hz |
| Adjustable sensitivity | Yes |
| Contactless cable break detector | Yes |
| Overvoltage category | CAT II 300 V |
| Standard | EN 61010-1 |
| Operating temperature range | 0–40 °C / 32–104 °F (75 % RH) |
| Storage temperature range | -10–50 °C / 14–122 °F (75 % RH) |
| Dimensions receiver | 190 x 54 x 37 mm |
| Dimensions transmitter | 95 x 56 x 30 mm |
| Weight receiver | 130 g incl. batteries |
| Weight transmitter | 85 g |
| Colour | Red/black |
| Power supply | 1 x 9 V block |
| Scope of delivery | Carrying case |



Testboy TV 700

Digital wall scanner

Using the location instrument Testboy TV 700, drilling locations are reliably and checked for obstacles. Ferrous and non-ferrous metals are recorded, as well as wood or live wires. The practical traffic light indication enables easy location exactly to the millimetre within seconds.

How you benefit

- | Practical traffic light indication
- | High contrast LCD with backlighting
- | Automatic calibration



SPECIFICATIONS

| | Testboy 700 |
|-----------------------|---|
| Indication | Acoustic and optical on a high contrast LCD with backlighting as well as traffic light indication |
| Scan depth | 80 mm ferrous metals 60 mm non-ferrous metals 22 mm wood 50 mm live wires |
| Automatic calibration | Yes |
| Auto-Power-Off | Yes |
| Dimensions | 145 x 68 x 25 mm |
| Weight | 160 g |
| Colour | Red/black |
| Power supply | 1 x 9 V 6L R61 |
| Scope of delivery | System carrying case |





Installation, instrument
and rotating field tester,
Adapter

Testboy TV 416/432(A)

CEE adapter*

The Testboy TV 416/432(A) is a compact CEE adapter, comprising of a combination of CEE plug (16 A or 32 A), shockproof socket and self-closing flap cover, as well as integrated electronics for phase sequence measurement (only TV 416/432). In order to determine wiring errors, or to test the effectivity of the FI circuit breaker, it can be combined with the socket test devices Testavit Schuki 1A, 2K and 3A.

How you benefit

- | Unbreakable PE housing
- | Can be combined with Testavit Schuki 1A, 2K and 3A
- | Phase sequence indication (only TV 416/432)



SPECIFICATIONS

| | Testboy TV 416/432 | Testboy TV 416A/432A |
|----------------------|--------------------|----------------------|
| Indication | Glow lamps | No |
| Power supply | Via test object | |
| Overvoltage category | CAT II 300 V | |
| Dimensions | 165 x 65 mm | |
| Weight | 250 g | |
| Colour | Red/white/blue | |

* For test purposes only



Testboy TV 410N

Rotating field tester

Using five glow lamps, the rotary field tester, Testboy TV 410N, indicates the presence of all three phases and, through their sequence, determines the correct order of the phases. The housing is made from impact-resistant, unbreakable ABS plastic, the fully insulated 4 mm sockets and the associated comprehensive and adaptable connection cable set provide safe testing and rapid determination of the phasing in a three-phase system.

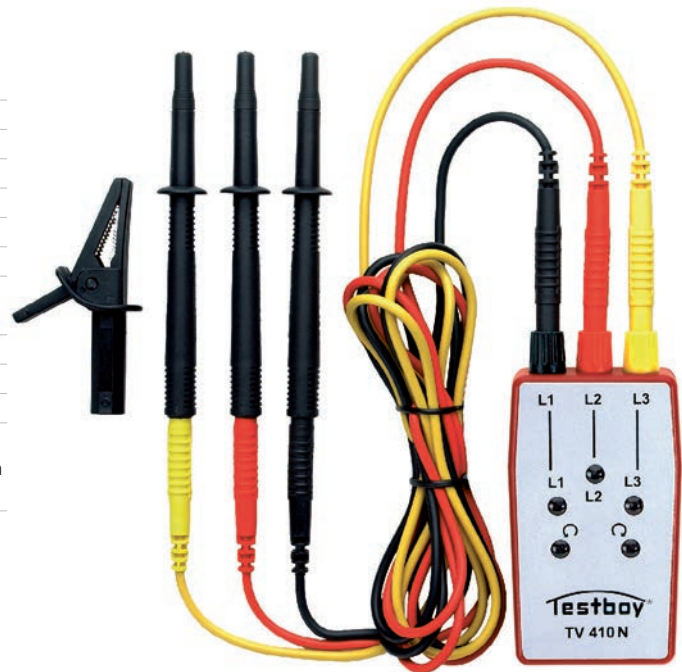
How you benefit

- | Comprehensive connection cable set
- | Impact-resistant and unbreakable ABS plastic housing



SPECIFICATIONS

| | Testboy TV 410N |
|---------------------|---|
| Indication | Optical, 5 glow lamps |
| Rated voltage | 400 V AC |
| Current consumption | < 3 mA |
| Frequency range | 50/60 Hz |
| Power-on time | 30 s |
| Power supply | Via measurement object |
| Housing | ABS synthetic material, resistant to breaking by impact |
| Dimensions | 115 × 60 × 25 mm |
| Weight | 75 g |
| Colour | Red |
| Scope of delivery | Incl. Profi test probes, 4-mm safety cable, Profi crocodile clip and system carrying case |



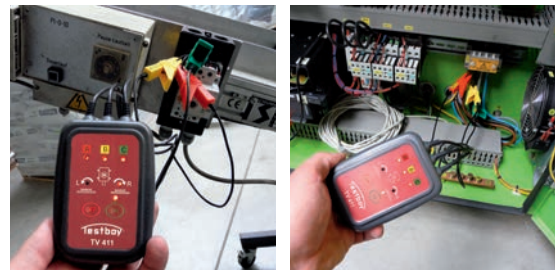
Testboy TV 411

Non-contact rotating field and rotary tester

The non-contact rotating field and rotary tester TV 411 indicates the phase sequence and direction of the rotating field of the external conductor and is especially suitable for service tasks in engine installations and multi-phase networks. The non-contact measurement with the coloured insulated terminals accelerates the service application and minimizes the risk of contacting energized electrically active conductors. The integrated rotary tester also determines by no contact by measuring the changing magnetic field of the direction of rotation of the engine shaft.

How you benefit

- | Non-contact measurement of the phase sequence and rotating field
- | Integrated rotary tester
- | Quick recording LED display



SPECIFICATIONS

| | Testboy TV 411 |
|----------------------|---|
| Indication | Optical, 6 LEDs |
| Voltage range | 70-600 V AC |
| Frequency range | 50/60 Hz |
| Test cable length | 50 cm |
| Overvoltage category | CAT III 600 V |
| Housing | ABS plastic |
| Dimensions | 110 x 70 x 30 mm |
| Weight | 220 g (incl. batteries) |
| Power supply | 2 x 1.5 V AA |
| Scope of delivery | Incl. operating instructions, carrying case |



Testboy TV 431

Digital insulation measuring instrument

The Testboy TV 431 Digital Insulation Measuring Instrument permits easy inspection of the insulation resistance of appliances, electrical systems and switchgears. Four selectable test voltages are available here for particularly informative measuring results. The area of application is substantially extended through the possibility of conducting AC, DC, continuity and resistance measurements.

Your advantages

- | Inspection with four selectable test voltages (250 V, 500 V, 1000 V, 2500 V)
- | Continuity test
- | DC and AC voltage measurements



SPECIFICATIONS

| Testboy TV 431 | |
|--|---|
| Indication | Large LC display with bar graph indication |
| Insulation resistance | 0.01 MΩ–100 GΩ |
| Test voltage (Test current max. 3 mA) | 250 V DC 0–250 MΩ ±3 %, ±5 digits |
| | 500 V DC 0–500 MΩ ±3 %, ±5 digits |
| | 1000 V DC 0–1000 MΩ ±3 %, ±5 digits |
| | 2500 V DC 0–100 MΩ ±3 %, ±5 digits |
| Resistance measurement | Up to 200 Ω |
| Continuity test | Signal sound in case of resistance < 3 Ω |
| AC voltage | 0–200 V 0.1 V ±1.5 %, ±5 digits |
| | 200–750 V 1 V ±1.5 %, ±5 digits |
| DC voltage | 0–200 V 0.1 V ±1.5 %, ±5 digits |
| | 200–1000 V 1 V ±1.5 %, ±5 digits |
| Auto-Power off | Yes |
| Data-Hold function | Yes |
| Measured value memory | For 20 measured values |
| Relative value measurement | Yes |
| Overvoltage category | CAT IV 600 V / CAT III 1000 V |
| Dimensions | 193 x 150 x 75 mm |
| Weight | 1245 g |
| Colour | Red/black |
| Power supply | 6 x 1.5 V C LR14 |
| Scope of delivery | Incl. Measuring line set and ever-ready bag |



Testboy TV 441

Digital Earth Resistance Measuring Instrument

The Testboy TV 441 Earth Resistance Measuring Instrument is used to check the resistance between the reference earth and the connection point of the earthing system. For measurement, AC current is fed in between an auxiliary earth electrode and the earth electrode to be measured. Using a probe which lies within the range of the reference earth of the earth electrode to be measured, the drop in voltage is measured and the earthing resistance determined (three-conductor method).

Your advantages

- | Auto-Power off
- | Measured value memory for 100 measured values



SPECIFICATIONS

| | Testboy TV 441 | |
|-----------------------------|---|-------------------|
| Indication | LC display with bar graph display | |
| Earth resistance | 0–29.99 Ω | ±2 %, ±6 digits |
| | 30–99.99 Ω | ±3 %, ±3 digits |
| | 100–999 Ω | ±3 %, ±3 digits |
| | 1–4 kΩ | ±3 %, ±3 digits |
| Earth voltage | 0–200 V, 50/60 Hz | ±1.5 %, ±5 digits |
| Measuring system | Constant current, 3 mA (800 Hz) | |
| Auto-Power off | After approx. 15 minutes | |
| Measurement value recording | Max, min, average value | |
| Relative value measurement | Yes | |
| Measured value memory | Yes (for 100 measured values) | |
| Overvoltage category | CAT III 300 V | |
| Standard | IEC/EN 61010-1 (DIN VDE 0411) | |
| Dimensions | 193 x 150 x 75 mm | |
| Weight | 955 g | |
| Colour | Red/black | |
| Power supply | 6 x 1.5 V AA, LR06 | |
| Scope of delivery | Incl. Earth spikes, measuring line set and ever-ready bag | |



Testboy TV 445

Installation tester DIN VDE 0100-600

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

How you benefit

- | Check in accordance with DIN VDE 0100-600, ÖVE E8001, NIN/NIV
- | Specific help screens
- | Large LCD
- | Good/Bad message



SPECIFICATIONS

| | Testboy TV 445 |
|------------------------------|--|
| Indication | 128 × 64 pixels with backlighting and integrated Good/Bad indication |
| Voltage measurement | 0–550 V AC |
| Earth resistance measurement | 0–9999 Ω |
| Insulation resistance | 0–999 MΩ |
| Test voltage | 50 V, 100 V, 250 V, 500 V, 1000 V |
| FI/RCD test | 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 |
| Overvoltage 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 |
| Power supply | 6 × 1.2 V NiMH battery or battery AA |
| Scope of delivery | Incl. universal test cable 3 × 1.5 m, test cable for shockproof sockets, 3 test probes (blue, black, green), 3 crocodile clips (blue, black, green), mains adapter and carry strap, quick guide, product test data, system carrying case |



Testboy TV 455

Installation tester DIN VDE 0100-600

As its small brother, the TV 445, the Testboy TV 455 is suitable for testing in accordance with DIN VDE 0100-600. However, it has additional integrated test lead calibration. Due to the USB interface, the measurement results can be easily evaluated using the PC software supplied. Furthermore, it enables testing AC/DC sensitive RCDs TYPE B.

How you benefit

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



SPECIFICATIONS

| | Testboy TV 455 |
|------------------------------|---|
| Indication | 128 × 64 pixels with backlighting and integrated Good/Bad indication |
| Voltage measurement | 0–550 V |
| Earth resistance measurement | 0–9999 Ω |
| Insulation resistance | 0.15 MΩ to 1 GΩ |
| Test voltage | 50 V, 100 V, 250 V, 500 V, 1000 V |
| FI/RCD test | 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 |
| Measurement value memory | 1900 measurement values |
| Overvoltage 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 |
| Power supply | 6 × NiMH battery or battery AA |
| Scope of delivery | Incl. universal test cable 3 × 1.5 m, test cable for shockproof sockets, test probes, crocodile clips, mains adapter and carry strap, quick guide, CD with PC software, factory calibration certificate, system carrying case |



Testboy TV 465

Device tester DIN VDE 0701/0702

The Testboy TV 465 is a mains-independent device tester for testing mobile devices in accordance with DIN VDE 0701-0702. Due to the test sequences that are preprogrammed or can be self-defined, the menu-assisted help function, as well as the Good/Bad messages, it is particularly easy to operate and, thus, enables quick and uncomplicated tests.

How you benefit

- | Testing in accordance with DIN VDE 0701-0702, BGV A3, BetrSichV, ÖVE E 8701/E 8702
- | Integrated compensation module
- | Menu-guided help function
- | Battery capacity sufficient for approx. 2600 test objects (depending on the number of measurements)
- | Screening test possible



SPECIFICATIONS

| | Testboy TV 465 |
|---------------------------------|--|
| Indication | 128 × 64 pixels with backlighting and integrated Good/Bad indication |
| Protective conductor resistance | 0 – 1999 Ω |
| Test current | 200 mA |
| Insulation resistance | 0 – 199.9 MΩ |
| Test voltage | up to 500 V DC |
| Alternative leakage current | 0 – 20.0 mA |
| Measurement voltage | 0 – 300 V |
| Polarity check | Test voltage <50 V AC |
| Ranging | Automatic |
| Overvoltage category | CAT II 300 V |
| Protection class | I, II, III |
| Test standards | DIN VDE 0710-0702, BGV A3, BetrSichV, ÖVE E8701/E 8702 |
| Dimensions | 235 × 140 × 80 mm |
| Weight | 1195 g |
| Interfaces | USB and RS-232 |
| Power supply | 6 × 1.2 V NiMH battery or 6 × 1.5 V AA |
| Scope of delivery | Incl. user manual, mains adapter, system carrying case, test lead with test probe and crocodile clip |
| Accessories (optional) | Memory expansion and software, USB interfaces cable |



Testboy TV 470

VDE tester DIN 0701/0702/EN 62353

The Testboy TV 470 is a handy test instrument designed for safety and repeat testing of portable equipment in accordance with DIN VDE 0701/0702 and EN 62353. Due to self-explanatory operability, logging software and DAkkS calibration certificate, it enables companies to carry out checks themselves in accordance with the standards, including documentation.

How you benefit

- | Specified test sequence with Good/Bad message
- | Help screen for each measurement
- | Bar code scanner
- | Logging software
- | DAkkS calibration certificate



SPECIFICATIONS

| | Testboy TV 470 | |
|---------------------------------|--|-------|
| Indication | 128 × 64 pixels with backlighting | |
| Protective conductor resistance | 0.1 – 2 Ω | ±10 % |
| Insulation resistance | 0.1 – 200 MΩ | ±10 % |
| Contact current | 0.1 – 20 mA | ±5 % |
| Subst. leakage current | 0.1 – 20 mA | ±5 % |
| Load current | 0.2 – 16.0 A | ±5 % |
| Output | 50 – 3700 V A | ±5 % |
| PELV test | From 25 V eff. | |
| Input current | Max. 16 A | |
| Data storage | Up to 500 test objects | |
| Overvoltage category | CAT II 600 V | |
| Test standards | DIN VDE 0701/0702, EN 62353 | |
| Operating temperature | 0 – 40 °C | |
| Dimensions | 250 × 170 × 55 mm | |
| Weight | 1445 g | |
| Interface | USB | |
| Power supply | 230 V ±10 %; 50 Hz ±2 % | |
| Scope of delivery | Incl. test lead set, Windows® software CD, USB connection cable, system carrying case, mains lead and bar code scanner | |





Thermometer,
luxmeter, humidity,
anemometer and
range finder

Testboy TV 323

Infrared thermometer

The infrared thermometer, Testboy TV 323, is convincing due to its uncomplicated operation. However, it has an extended temperature range of -50 °C to 550 °C [-58 °F to 1022 °F] as well as Min/Max value indication. Thus, it is well suited for daily use in the trade and industry.

How you benefit

- | Data-Hold function
- | Auto power-off
- | Min/Max value indication



SPECIFICATIONS

| | Testboy 323 |
|--------------------------|--|
| Indication | LCD with backlighting |
| Detector | Thermopile |
| Measuring optic | 12:1 |
| Laser point | Selectable |
| Measurement range | -50–550 °C, -58–1022 °F |
| Measurement accuracy | ±2.0 °C, ±3.6 °F |
| Response time | < 1 s |
| Over-range indication | "1" for exceeding measurement range |
| Emissivity | 0.95 (fixed) |
| Auto-Power Off | After approx. 10 s |
| Data-Hold function | Yes |
| Min/Max value indication | Yes |
| Operating temperature | 0–50 °C, 32–122 °F |
| Humidity | 10–80 % RH |
| Housing | ABS synthetic material, resistant to breaking by impact |
| Dimensions | 152 × 94 × 38 mm |
| Weight | 127 g |
| Colour | Red/black |
| Power supply | 2 × 1.5 V AAA, LR03 |



Testboy TV 325

Infrared thermometer with adjustable emission value

The infrared thermometer, Testboy TV 325, impresses with its many useful functions, for example, Min/Max value memory, adjustable emissivity and averaging. In addition, it also has a connection for conventional K-Type sensor and, thus, is equally suitable for use in industrial companies, car workshops, heating, refrigeration and air-conditioning systems or the electric trade.

How you benefit

- | Min/Max value memory/alarm function
- | Adjustable emissivity
- | Averaging
- | Connection for K-Type sensor



SPECIFICATIONS

| | Testboy TV 325 |
|------------------------------------|---|
| Indication | LCD with backlighting |
| Detector | Thermopile |
| Measuring optic | 12:1 |
| Laser point | Selectable |
| Measurement range | -60–500 °C, -76–932 °F infrared -64–1400 °C, -82,3–1999 °F with K-Type sensor |
| Measurement accuracy infrared | Object 15–35 °C, ambient 25 °C: ±1,0°C, ±1,8°F Object -33–15 °C and 35–500 °C, ambient 23 °C ±3 °C: ±2°C, 4°F or ±2 %, the greater value applies |
| Measurement accuracy K-Type sensor | Ambient 23°C ± 6°C: ±1 °C, 1,8 °F or ±1 %, the greater value applies |
| Emissivity | 0.95 specified; adjustable from 0.10–1.00 in 0.01 increments |
| Resolution | 0,1° [-9,9–199,9°] |
| Response time | < 0.5 s |
| Min/Max value memory | With alarm function |
| Averaging | Yes |
| Auto-Power Off | After approx. 10 s |
| Data-Hold function | Yes |
| Temperature sensor | Option to connect K-Type sensor |
| Operating temperature | 0–50 °C, 32–122 °F |
| Humidity | 10–90 % RH |
| Housing | ABS synthetic material, resistant to breaking by impact |
| Dimensions | 49 × 133 × 146 mm |
| Weight | 222 g |
| Colour | Red/grey |
| Power supply | 2 × 1.5 V AAA, LR03 |
| Scope of delivery | Incl. system carrying case and K-Type sensor (-50–200 °C) |



Testboy TV 326

Infrared Thermometer with Alarm Function

The Infrared Thermometer TV 326 has a large measurement range and a connection for a K-Type sensor. Thus, it can be used for measurements in industrial companies and vehicle workshops, as well as in the heating, refrigeration, air-conditioning and electrical installation sector. It is robust and convinces in everyday use with additional useful functions.

How you benefit

- | Large infrared measurement range
- | Connection for commercial K-Type sensor
- | Min/Max value memory/alarm function
- | Adjustable emissivity
- | Averaging



SPECIFICATIONS

| | Testboy TV 326 | |
|-----------------------------|---|-----------------|
| Indication | 3 1/4 digit colour LC display | |
| Measuring optic | 12:1 | |
| Measurement range | -60-500 °C, -76-932 °F Infrared -40-1080 °C, -40-1976 °F with K-Type sensor (option) | |
| Measuring accuracy infrared | -60-0 °C | ±4.0 °C, ±3 % |
| | 0-500 °C | ±2.0 °C, ±1.5 % |
| | -76-32 °F | ±4.0 °F, ±3 % |
| | 32-932°F | ±2.0 °F, ±1.5 % |
| Measuring accuracy | -40-1080 °C | ±3.0 °C, ±1.5 % |
| K-Type input | -40-1976 °F | ±3.0 °F, ±1.5 % |
| Emissivity | Adjustable from 0.10-1.00 in 0.01 increments | |
| Resolution | 0.1 °C/°F < 199.9 1.0 °C/°F > 199.9 | |
| Response time | < 0.5 s | |
| Min/Max value memory | With alarm function | |
| Averaging | Yes | |
| Auto-Power Off | After approx. 30 s | |
| Data-Hold function | Yes | |
| Operating temperature | 0-50 °C, 32-122 °F, 10-90 % RH, non-condensing | |
| Storage temperature | -20-60 °C, -4-140 °F, < 70 % RH, non-condensing | |
| Working height | < 2000 m | |
| Housing | ABS plastic | |
| Dimensions | 47 x 176 x 125 mm | |
| Weight | 275 g | |
| Power supply | 1 x 9 V Block | |
| Scope of delivery | Incl. operating instructions, carrying case, K-Type sensor (-50-200 °C) | |



Testboy TV 327

Infrared Thermometer with Measuring Optic 30:1

As the Infrared Thermometer TV 326, the Infrared Thermometer TV 327 also has a large measurement range and a connection for a K-Type sensor. However, due to the 30:1 measuring optic, it is also suitable for taking measurements from further away. In everyday use, it convinces with its clever additional functions.

How you benefit

- | Measuring optic 30:1
- | Measured value memory
- | Large infrared measurement range
- | Connection for commercial K-Type sensor
- | Min/Max value memory/alarm function
- | Adjustable emissivity
- | Averaging



SPECIFICATIONS

| | Testboy TV 327 | |
|---------------------------------|--|-----------------|
| Indication | 4 digit, colour LC-Display | |
| Measuring optic | 30:1 | |
| Measurement range | -50-760 °C, -58-1400 °F Infrared -50-1400 °C, -58-2552 °F with K-Type sensor (option) | |
| Measuring accuracy infrared | -50-0 °C | ±4.0 °C, ±3 % |
| | 0-400 °C | ±2.0 °C, ±1.5 % |
| | 400-760 °C | ±2.0 °C, ±2 % |
| | -58-32 °F | ±4.0 °C, ±3 % |
| | 32-752 °F | ±2.0 °F, ±1.5 % |
| | 752-1400 °F | ±2.0 °F, ±2 % |
| Measuring accuracy K-Type input | -50-1400 °C | ±3.0 °C, ±1.5 % |
| | -58-2552 °F | ±3.0 °F, ±1.5 % |
| Emissivity | Adjustable from 0.10-1.00 in 0.01 increments | |
| Resolution | 0.1 ° | |
| Response time | < 0.5 s | |
| Min-/Max. value memory | Yes (with alarm function) | |
| Averaging | Yes | |
| Auto-Power Off | After approx. 30 s | |
| Data-Hold function | Yes | |
| Operating temperature | 0-50 °C, 32-122 °F, 10-90 % RH, non-condensing | |
| Storage temperature | -20-60 °C, -4-140 °F, < 70 % RH, non-condensing | |
| Working height | < 2000 m | |
| Housing | ABS plastic | |
| Dimensions | 47 x 176 x 125 mm | |
| Weight | 275 g | |
| Power supply | 1 x 9 V Block | |
| Scope of delivery | Incl. operating instructions, carrying case, K-Type sensor (-50-200 °C) | |



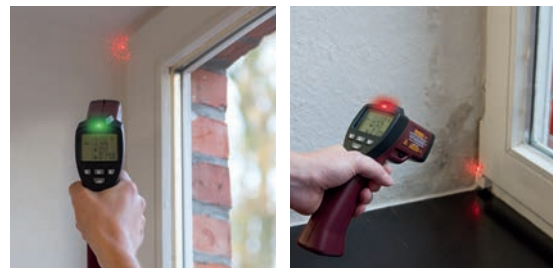
Testboy TV 328

Mould detector

Due to the dew point display, together with the mould detector, Testboy TV 328, it can find locations at risk through mould in seconds, as well as highlighting concealed and invisible thermal bridges. Due to the comprehensive performance spectrum and easy operation, it is very suitable for mobile use.

How you benefit

- | Dew point display
- | Relative humidity measurement
- | Laser ring
- | Adjustable emissivity
- | Averaging



SPECIFICATIONS

| | Testboy 328 |
|-------------------------------|--|
| Indication | LCD with backlighting |
| Detector | Thermopile |
| Measuring optic | 12:1 |
| Measurement range | -20–350 °C, 4–662 °F infrared -10–40 °C, 14–140 °F with ambient sensor |
| Measurement accuracy infrared | Object 10–30 °C: ±1 °C, ±1.8 °F Object -20–10 °C and 30–200°C: ±3 °C, 4 °F or ±2 %, the greater value applies |
| Emissivity | 0.75, 0.85 and 0.95 preset |
| Resolution | 0.1 ° |
| Response time | < 0.5 s |
| Auto-Power Off | After approx. 25 s |
| Data-Hold function | Yes |
| Operating temperature | -10–40 °C, -14–140 °F |
| Humidity | 10–90 % RH |
| Laser class | II, 650 nm, <1 mW |
| Housing | ABS synthetic material, resistant to breaking by impact |
| Dimensions | 56 × 194 × 162 mm |
| Weight | 222 g |
| Colour | Red/black |
| Power supply | 1 × 9 V |
| Scope of delivery | Incl. system carrying case |



Testboy TV 333

Digital luxmeter

Using the digital luxmeter, Testboy TV 333, the light strength can be recorded at a specified place – due to freely moving sensor, also at locations difficult to access. The silicon photo diodes behind a large diffuser enables precise measurements of up to 100.000 Lux. Thereby, for example, it is suitable for measurements in offices, conference rooms, classrooms and other public buildings.

How you benefit

- | Free-moving sensor with coiled cable
- | Large, high-contrast display
- | Sensor protection cover



SPECIFICATIONS

| | Testboy TV 333 |
|-----------------------|--|
| Indication | 18 mm high LCD |
| Measurement range | 0 – 100000 lx |
| Measurement rate | 0,4 s |
| Over-range indication | "1" for exceeding measurement range |
| Operating temperature | 0 – 50 °C (32 – 122 °F) |
| Dimensions | 130 × 72 × 30 mm |
| Weight | 40 g |
| Power supply | 1 × 9 V Block |
| Scope of delivery | Incl. system carrying case, operating instructions |



Testboy TV 335

LED luxmeter

The Testboy TV 335 is a digital luxmeter in a practical and robust plastic housing with a large measurement range of up to 400.000 Lux. Due to photo diodes sensitive to artificial light and adjustable colour temperature, it is also suitable to determine the light strength of LED lighting etc. The large LC display ensures quick and reliable reading of the measurement result.

How you benefit

- | Photo diodes sensitive to artificial light (e.g. LED lighting)
- | Adjustable colour temperature
- | Data-Hold function
- | Sensor protection cover



SPECIFICATIONS

| | Testboy TV 335 |
|----------------------------|---|
| Indication | LCD with 3 ½ digits and bar chart |
| Measurement ranges | 20 lx, 200 lx, 2000 lx, 20000 lx, 400000 lx 20 fc, 200 fc, 2000 fc, 40000 fc 0- 999900 cd |
| Accuracy | 3 % V(λ) adaptation 2 % cosine correction |
| Sensor | Silicon photo diodes |
| Spectral range | 320-730 nm |
| Sampling rate | Ø 2 measurements per second |
| Standard | DIN 5032-7 Type B |
| Operating temperature | -10-50 °C / 14-122 °F |
| max. relative air humidity | 85 % (not condensing) |
| Dimensions | 89 × 190 × 42.5 mm |
| Weight | 250 g (incl. battery) |
| Power supply | 1 × 9 V Block |
| Scope of delivery | Incl. system carrying case |



Testboy TV 341

Hygrometer

The Testboy TV 341 is a handy instrument for the measurement of the moisture content of building materials. The integrated measuring tips are very thin in order to permit proper measurement of materials such as cut timber, plywood, chipboard, veneer, plasterboard or plaster. During transport, it is protected by a practical cap.

Your advantages

- | No separate measuring lines or tips
- | Auto-Power off
- | Integrated self-test unit



SPECIFICATIONS

| | Testboy TV 341 |
|-----------------------|---|
| Measurement range | 0–55 % |
| Measuring accuracy | ± 2 % |
| Resolution | 0.1 % |
| Measuring functions | Hold, Max, Min value |
| Auto-Power off | Yes |
| Operating temperature | -10–50 °C / 14–122 °F |
| Storage temperature | -20–60 °C |
| Dimensions | 143 x 55 x 28 mm |
| Weight | 115 g |
| Power supply | 3 x 1.5 V AAA |
| Scope of delivery | Incl. Operating instructions and ever-ready bag |



Testboy TV 350

Digital Anemometer

The Testboy TV 350 is the ideal assistant in heating, ventilation and air conditioning construction. In addition to the wind speed, it is possible to measure moisture, ambient temperature, dew point temperature and air volume. The measurement values can be recorded via the integrated USB interface and the supplied software. The units of measurement can be switched to standard international values.

Your advantages

- | Illuminated LC display
- | Min/max value memory
- | USB interface for evaluation of the data on a PC (Windows)
- | Clever additional functions

SPECIFICATIONS

| | Testboy TV 350 | |
|-----------------------|---|--------------------|
| Indication | LC display with background illumination | |
| Wind speed | 0.80–30.0 m/s | ±2.0 %, ±50 digits |
| | 1.4–108.0 km/h | ±2.0 %, ±50 digits |
| | 0.9–67.0 mil/h | ±2.0 %, ±50 digits |
| | 80–5900 ft/m | ±2.0 %, ±50 digits |
| | 1.3–98.5 ft/s | ±2.0 %, ±50 digits |
| | 0.8–58.0 kn | ±2.0 %, ±50 digits |
| Air temperature | -20–60 °C | ±1.5 °C |
| | -4–140 °F | ±2.7 °F |
| Relative air humidity | 20–90 % RH | ±3.0 % RH at 25 °C |
| Air flow | 0–9999 m ³ /s (CMS) | |
| | 0–99990 m ³ /m (CMM) | |
| | 0–99990 ft ³ /m (CFM) | |
| Min/max value memory | Yes | |
| Auto-Power off | Yes | |
| Temperature units | °C /°F | |
| Ambient temperature | Yes | |
| Dew point temperature | Yes | |
| Wet bulb temperature | Yes | |
| Interface | USB | |
| Dimensions | 85 x 165 x 38 mm (W x H x D) | |
| Weight | 200 g | |
| Colour | Red/black | |
| Power supply | 1 x 9 V Block | |
| Scope of delivery | Incl. Transport bag | |



Testboy TV 610

Laser range finder

The Testboy TV 610 reliably measures distances of up to 60 metres and enables addition and subtraction. In addition, it can calculate volumes and surface areas, as well as assisting the indirect measurement procedure for determining the height. It has an easily legible LCD with backlighting and, when not used, switches off to save the batteries.

How you benefit

- | Range up to 60 m
- | Addition/subtraction
- | Surface area calculation
- | Volume calculation
- | Pythagoras calculation

SPECIFICATIONS

| | Testboy TV 610 |
|-----------------------|---|
| Indication | LCD with backlighting |
| Measuring range | 0.05 – 60.00 m |
| Measurement accuracy | ± 1,5 mm |
| Resolution | 1 mm |
| Measuring functions | Continuous measurement, Addition/subtraction, Surface area calculation, Volume calculation, Pythagoras calculation, min/max-values, indirect measurement by two- or three-point measurement |
| reference point | Front edge, trailing edge, stop bracket from corner |
| Measured value memory | For 20 measured values |
| Measurement units | Meter, foot, inch |
| Auto-Power Off | After approx. 180 s |
| Operating temperature | 0 – 40 °C |
| Dimensions | 124 x 49 x 27 mm |
| Weight | 130 g |
| Power supply | 2 x 1.5 V AAA, LR03 |
| Scope of delivery | Incl. system carrying case |





Vehicle measuring instruments

Testboy 50

Brake fluid tester DOT 4

The Testboy 50 is a handy testing pin which can test the brake fluids DOT 4 in seconds. Five LEDs precisely indicate the water content in brake fluids manufactured based on glycol. Thereby, it is suitable for quick checking during the order acceptance in car workshops.

How you benefit

- | Checking brake fluids DOT 4
- | Illuminated measurement probes
- | Long service life, as acid and alkali-resistant



SPECIFICATIONS

| | Testboy 50 |
|------------------|--------------------|
| Indication | Optical via 5 LEDs |
| Measuring range | DOT 4 |
| Protection class | IP 40 |
| Standard | EN 61010-1:2010 |
| Dimensions | 152 x 23.5 mm |
| Weight | 40 g |
| Colour | Black |
| Power supply | 1 x 12 V, type V23 |



Testboy 55

Brake fluid tester DOT 3, DOT 4, DOT 5.1

The brake fluid tester, Testboy 55, quickly and accurately checks the water content in brake fluids DOT 3, DOT 4 and DOT 5.1. Due to different measurement areas, user-friendly operation and compact construction, it is equally suitable for use in car, lorry and motorbike workshops.

How you benefit

- | Checking brake fluids DOT 3, DOT 4, DOT 5.1
- | Measurement location lighting
- | Long service life, as acid and alkali-resistant



SPECIFICATIONS

| | Testboy 55 |
|--------------------|-----------------------|
| Indication | Optical via 3 LEDs |
| Measurement ranges | DOT 3, DOT 4, DOT 5.1 |
| Protection class | IP 40 |
| Standard | EN 61010-1:2010 |
| Dimensions | 152 × 23.5 mm |
| Weight | 40 g |
| Colour | Black |
| Power supply | 2 × 1.5 V AAA, LR03 |



Testboy 70

Coating thickness meter

The coating thickness meter, Testboy 70, measures all non-magnetic coatings on steel or iron, such as paintwork, enamel, chrome, copper, zinc, etc. Furthermore, with its special probe, it also enables measurement of all insulating coatings on non-magnetic, metallic surfaces, such as aluminium, copper or brass.

How you benefit

- | Large LCD
- | Interchangeable probe for measurements on magnetic and non-magnetic metallic surfaces



SPECIFICATIONS

| | Testboy 70 | |
|--------------------------------|--|------------------------------|
| Indication | LCD with 4 digits | |
| Measurement range | 0 – 1250 µm 0 – 50 mil | ± 2.5 µm, ± 1–3 % ± 1–3 % |
| Minimum measuring area | Ø 5 mm | |
| Minimum curvature radius | Fe: Convex 1.5 mm NFe: 3 mm | |
| Minimum thickness of substrate | Fe: 0.5 mm NFe: 0.3 mm | |
| Working temperature | 0–40°C | |
| Standard | EN 61010-1 (DIN VDE 0411) | |
| Dimensions | 158 × 74 × 31 mm | |
| Weight | 220 g | |
| Colour | Black | |
| Power supply | 4 × 1.5 V AAA, LR03 | |
| Scope of delivery | Incl. Fe probe, NFe probe and service case | |



Testboy 72

Coating thickness meter with combi-probe

Using a combi-probe, the layer thickness tester, Testboy 72, reliably measures all insulated coatings on magnetic and non-magnetic metallic surfaces. Thereby, switching is carried out automatic. The integrated measurement value memory stores the last ten measurement values. The display, the direction of which can be switched, ensures that measurements can also be made under the most difficult conditions.

How you benefit

- | Combi-probe for magnetic and non-magnetic metallic surfaces
- | Measured value memory
- | Direction of the display can be switched



SPECIFICATIONS

| | Testboy 72 | |
|--------------------------------|--|----------------|
| Indication | LCD with 3 digits | |
| Measurement range | 0–2000 µm | ±2 µm, ±3 % |
| | 0–80 mil | ±0.1 mil, ±3 % |
| Minimum measuring area | Ø 7 mm | |
| Minimum curvature radius | Fe: Convex 1.5 mm | |
| | NFe: 3 mm | |
| Minimum thickness of substrate | Fe: 0.7 mm | |
| | NFe: 0.7 mm | |
| Measurement value memory | 10 values | |
| Working temperature | 0–40 °C | |
| Standard | EN 61010-1 (DIN VDE 0411) | |
| Dimensions | 94 × 48 × 24.2 mm | |
| Weight | 72 g | |
| Colour | Black | |
| Power supply | 1 × 1.5 V AAA, LR03 | |
| Scope of delivery | Incl. service case and calibration plate | |



Testboy 74

Coating thickness tester with LED display

With its clear LED display, the layer thickness tester, Testboy 74, enables quick and easy control of all non-magnetic coatings on steel or iron, such as paints, enamel, chrome, copper, zinc etc. It is particularly suitable for quickly checking vehicles for previous accident damage in car workshops.

How you benefit

- | Clear LED display
- | Quick, uncomplicated checks



SPECIFICATIONS

| | Testboy 74 | |
|--------------------------------|--------------------|--------|
| Indication | Optical via 3 LEDs | |
| Measuring ranges | 0–400 µm | ± 15 % |
| Minimum measuring area | Ø 7 mm | |
| Minimum thickness of substrate | Fe: 0.8 mm | |
| Working temperature | 0–40 °C | |
| Dimensions | 160 × 33 mm | |
| Weight | 80 g | |
| Colour | Red | |
| Power supply | 1 × 12 V, type V23 | |



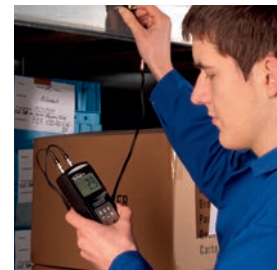
Testboy 75

Ultrasonic thickness meter

Using an ultrasonic sensor, the material thickness tester, Testboy 75, accurately determines the thicknesses of the materials steel, aluminium, copper, brass, quartz glass, PVC, zinc, cast iron, polyethylene and grey cast iron. All other materials can also be measured, due to the option of setting the resonance frequency. Thereby, it is suitable for many applications in the car sector, quality assurance and industry.

How you benefit

- | Large measurement range
- | High accuracy of measurement
- | Adjustable resonance frequencies



SPECIFICATIONS

| | Testboy 75 | |
|------------------------|--|----------|
| Indication | LCD with 4 digits | |
| Measurement range | 1.2–200 mm | ± 0.5 mm |
| Resolution | 0.1 mm | |
| Minimum measuring area | Ø 5 mm | |
| Resonance frequency | 500–9000 m/s | |
| Materials | Steel, aluminium, copper, brass, quartz glass, PVC, zinc, cast iron, polyethylene, grey cast iron etc. | |
| Working temperature | 0–50 °C | |
| Standard | EN 61010-1 (DIN VDE 0411) | |
| Dimensions | 158 × 74 × 31 mm | |
| Weight | 220 g | |
| Colour | Black | |
| Power supply | 3 × 1.5 V AAA, LR03 | |
| Scope of delivery | Incl. ultrasonic sensor, glycerine and service case | |



Testboy 90

Gas detector

The gas detector, Testboy 90, senses combustible, natural gases, e.g. natural and propane gas. Due to the compact design, it is very suitable for use in confined workspaces, e.g. in the engine compartment or heating systems. The presence of gases is indicated by coloured LEDs and an additional acoustic alarm.

How you benefit

- | Optical and acoustic alarm
- | Maintenance-free sensor
- | Auto power-off

SPECIFICATIONS

| | Testboy 90 |
|----------------|----------------------------------|
| Indication | Optical, via 3 LEDs and acoustic |
| Auto-Power-Off | After approx. 3 min |
| Dimensions | 218 × 25 × 30 mm |
| Weight | 88 g |
| Colour | Red |
| Power supply | 2 × 1.5 V AA |



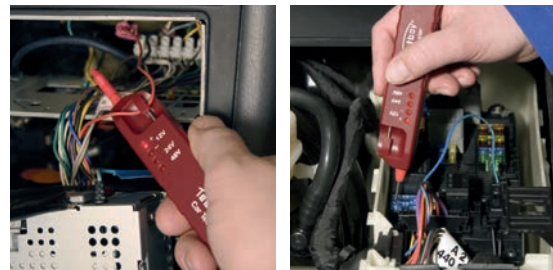
Testboy Car Tester

Voltage tester

The Testboy Car Tester is very suitable for troubleshooting in the car, lorry and all other sectors up to 48 V DC. Four LEDs indicate the voltage and polarity. The integrated piercing probe makes the testing of cables easier.

How you benefit

- | Polarity indicator
- | Integrated piercing probe



SPECIFICATIONS

| | Testboy Car Tester |
|-----------------|---|
| Indication | Optical via 4 LEDs |
| Measuring range | 3–48 V DC |
| Standard | EN 61010-1:2010; EN 61010-2-030:2010 |
| Dimensions | 145 × 25 × 16 mm |
| Weight | 120 g |
| Colour | Red |
| Power supply | Via measurement object |



Testboy Light 500

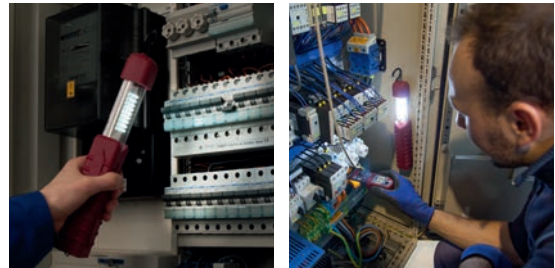
LED work light with NiMH battery and holding magnets

The Testboy Light 500 is a high-performance LED work light with a robust housing, resistant to impact, acids and oil and has a five year warranty (excluding the battery). It has more than 27 super-bright, white LEDs and a maintenance-free NiMH battery, which enables a lighting duration of approximately 4.5 hours. Due to attachment hooks and holding magnets, it is also very suitable for use in restricted working environments.

How you benefit

- | 27 High-performance LEDs
- | Approx. 4.5 h operating life
- | Maintenance-free NiMH battery
- | IP 54

*Product video at
www.testboy.de*



SPECIFICATIONS

| | Testboy Light 500 |
|-------------------|---|
| Indication | 27 bright, white LEDs |
| LED configuration | 1 × centre row as a spotlight 2 × outer rows as diffused light |
| Suspension | Attachment hook, can be rotated through 360° |
| Attachment | 2 holding magnets |
| Operating life | 4.5 h |
| Charge time | 2 h |
| Protection class | IP 54 |
| Standard | EN 61010-1 (DIN VDE 0411) |
| Dimensions | 320 × 40 × 45 mm |
| Weight | 320 g |
| Colour | Red |
| Power supply | 1 × 3.6 V 1800 mAh NiMH battery |
| Scope of delivery | Incl. charger 230 V AC and 12 V DC |



Testboy accessories



Crocodile clips

Testboy 65, Testboy Pocket 100, Testboy 2200, Testboy 3000, Testboy Pocket, Testboy 20 Plus, Testboy TV 216N, Testboy TV 215N, Testboy TV 225, Testboy TV 460, Testboy TV 470, Testboy TV 410N, Testboy 313 and Testboy 312



Test lead set CAT III

Testboy 20 Plus, Testboy 65, Testboy Pocket 100, Testboy TV 216N, Testboy TV 215N, Testboy TV 225, Testboy 312, Testboy 313, Testboy 2200, Testboy TV 460 and Testboy TV 470



GS-38 test tips

Testboy Profi III LED and Testboy Profi III LCD



Test lead set CAT IV

Testboy 3000



Removable test tips

Testboy Profi III LED and Testboy Profi III LCD



Cases

Two-pole voltage tester, continuity tester and multimeter



Adapter for K-Type sensor

Testboy 313, Testboy 65

K-type probe

Testboy TV 325, Testboy 313, Testboy 65, Testboy TV 326, Testboy TV 327

- 1| TP-K02 immersion probe
Measuring range: -50 – 700°C
Tolerance: $\pm 2.2^\circ\text{C}$
- 2| TP-K03 surface probe, straight
Measuring range: -50 – 400°C
Tolerance: $\pm 2.2^\circ\text{C}$
- 3| TP-K04 penetration probe
Measuring range: -50 – 600°C
Tolerance: $\pm 2.2^\circ\text{C}$
- 4| TP-K05 surface probe, curved
Measuring range: -50 – 400°C
Tolerance: $\pm 2.2^\circ\text{C}$
- 5| TP-K06 room probe
Measuring range: -50 – 800°C
Tolerance: $\pm 2.2^\circ\text{C}$



Marketing



Testboy display

- | Display for 4 Testboy 313 digital multimeters,
- 10 Testboy Profii III LED/LCD or
- 21 non-contact voltage testers from 12 V
- | Individual arrangement possible



Testboy package

- | Display for 21 non-contact voltage testers from 12 V
- | Stand-up display
- | Individual arrangement possible (e.g. TB 110, 130, 114)

Testboy sales display

- | Top technology from Testboy to handle
- | Optimum presentation of the devices
- | Individual arrangement possible
- | Illustrated example:
- 2 Testboy Profii III LED, 2 Testboy Profii III LCD,
- 1 Testboy 40 Plus, 2 Testboy 20 Plus, 1 Testboy Light 500,
- 2 Testboy 3000, 1 Testboy Pocket, 1 Testboy 312,
- 1 Testboy TV 216N, 1 Testboy 218, 1 Testboy 26,
- 1 Testboy 110, 1 Testboy 113, 1 Testboy TV 325



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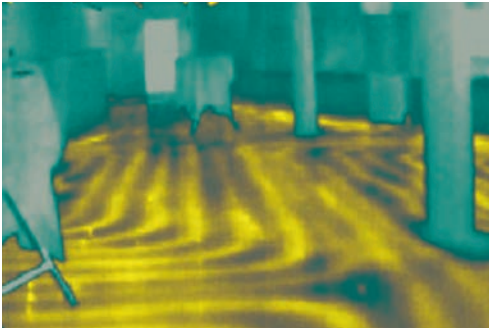
Beim Alten Flugplatz 3
49377 Vechta/Germany
Tel. +49 (0) 4441 89112-50

www.compro.de



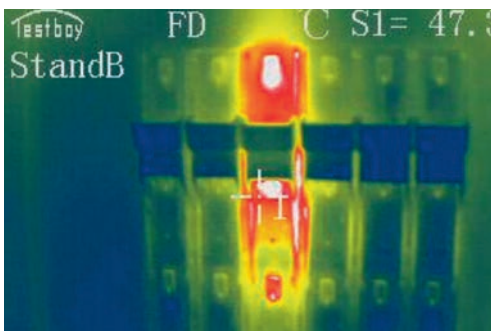
Thermography

Areas of application



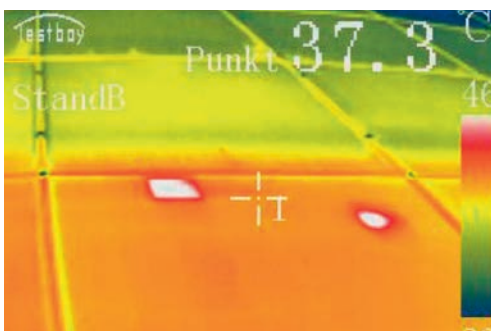
Heating and plumbing

Detection of heat or cold sources, e.g. leak detection in the event of a burst pipe, underfloor heating, panel heating, etc.



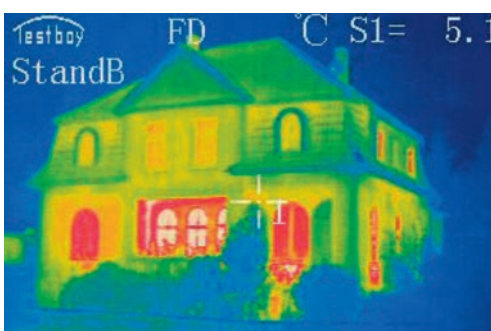
Electrical engineering, electronics

Functional monitoring of individual components, e.g. switching cabinet thermal imaging, cable detection



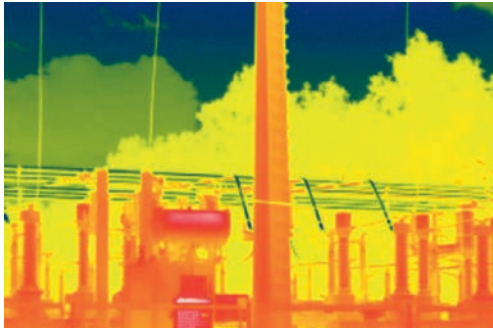
Photovoltaics

Checking installed panels, e.g. hotspot, poor contacts, overheating of the inverter



Construction industry, building materials

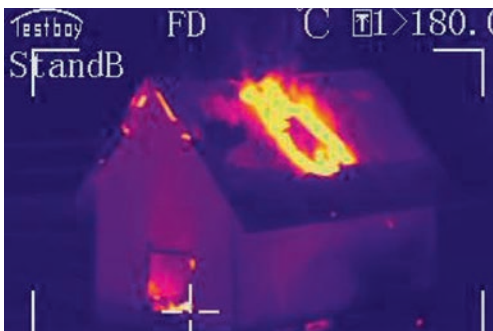
Building thermal imaging, thermal bridges, checking of insulation, windows, mould, etc.



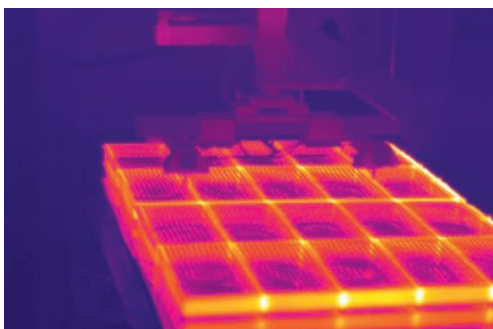
Energy technology, power stations
 Process monitoring, non-contact testing of components while the installation is in operation



Medical fields
 Human and animal medicine, hidden inflammations, non-contact examination



Fire service
 Location of glow nests, person location, gas tank fill levels etc.



Measurement and automation technology, plastics industry, chemical industry, mechanical engineering etc.
 Monitoring of production processes, e.g. heat distribution of injection moulds, non-contact testing of components during operation

Thermal Imagers

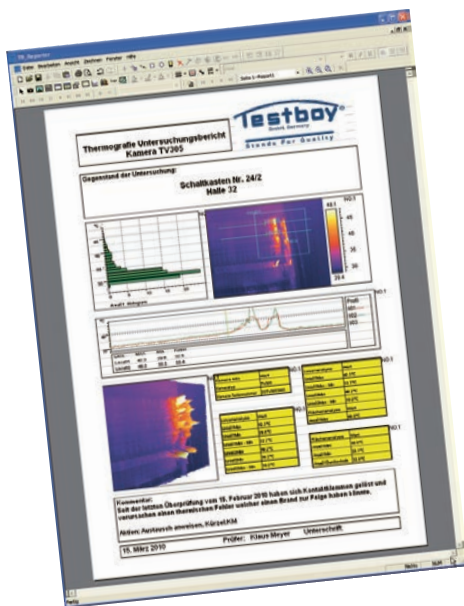
All objects with a temperature greater than absolute zero emit infrared radiation. Infrared radiation cannot be seen by the naked human eye. However, thermal imagers can convert infrared radiation into electric signals and, thus, make them visible.

Because practically each component that absorbs or transmits the energy heats up before it precipitates, infrared thermography represents one of the most effective and reliable technologies for preventive servicing. It is a quick, thorough and safe procedure to identify problems before malfunctions occur.

Whether in industrial plants, switch cabinets, controllers or buildings: Testboy thermal imagers provide powerful options for diagnosis. With their assistance, problems and sources of faults can be prematurely detected and, thereby, for example, production downtimes and fires can be prevented or energy saved.

High-resolution sensors in the Testboy thermal imager provide a detailed image evaluation. This image evaluation can even be carried out on site when using our TV 309, TV 304, TV 294 Digital and TV 295 models.

Testboy Reporter Software



Professional creation of reports on infrared and building inspections

The Testboy Reporter software has been developed by thermal imaging experts and optimised to quickly produce comprehensive and meaningful inspection reports. The look, structure and information content of the report can be saved individually by the user as a template with the required diagrams, text elements and company logo. In addition, the radiometric images – each pixel has a saved value – can be adapted. Thus, for example, measurement points and line profiles can be set or temperature scale or colour palette changed. The evaluations calculated in the report are then automatically adapted.

Testboy TV 291

Basic IR Thermal Imager

The TV 291 Thermal Imager is universal in use and closes the gap between the IT thermometer and the IR thermal imaging camera. It offers the advantages of thermal imaging technology with the detection of temperature problems, which cannot be done using a typical IR thermometer.

Your advantages

- | Digital camera for image superimposition
- | Integrated colour display
- | Easy operation
- | Universal in use
- | Robust and reliable

Areas of application

- | Preventive maintenance
- | Leak detection and localisation of heating pipes
- | Process monitoring
- | Thermal inspection of electrical distributions

SPECIFICATIONS

| | Testboy TV 291 |
|--|--|
| Resolution | 60 x 60 pixels |
| Temperature resolution | (NETD) 0.15 °C / 0,27 °F |
| Field of vision (FOV) minimum focus distance | 20° x 20° 0.5 m fix |
| Sensor data record | 6 Hz |
| Spectral range | 8–14 µm |
| LC display | 2.5" colour LCD |
| CCD camera | 300,000 pixels |
| Temperature range | -20–300 °C / -4–572 °F |
| Accuracy | ±2 °C or ±2 % (the larger value applies) |
| Emission correction | Variable from 0.1 to 1.0 (in 0.01 steps) |
| Colour palettes | 6 (Ironbow, Rainbow, High contrast rainbow, grey shades (white hot) and grey shades (black hot)) |
| Image representation | Masking of the visual depiction with the infrared image in 25% steps |
| Other settings | Date, time, temperature unit |
| Memory medium | MicroSD card |
| Data format | BMP |
| Power supply | 4 x 1.5 V AA |
| Energy-saving function | Automatic switch-off after 12 minutes |
| Operating temperature | -5–40 °C / 23–104 °F |
| Air humidity | ≤ 90 % non-condensating |
| Storage temperature | -20–55 °C / -4–131 °F |
| Dimensions | 223 x 88 x 65 mm |
| Weight | 310 g |
| Scope of delivery | Incl. Ever-ready bag, SD card and adapter for SD card |



Testboy TV 294 Digital

Thermal imager

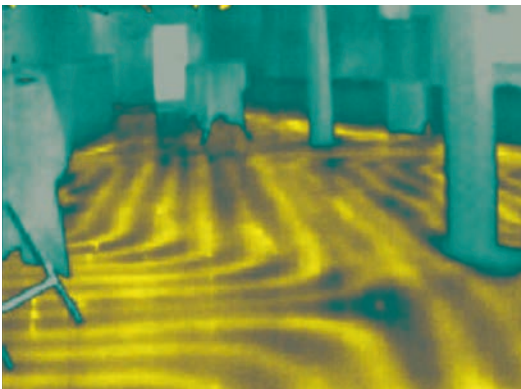
The cost-effective thermal imager, TV 294 Digital, can be universally used and, due to its robust construction, also withstands rough conditions of use. Its 50-Hz technology delivers clear images in real time and also thermographically records fast movements during the process. The comprehensive measuring functions enables an analysis directly on site.

How you benefit

- | 50-Hz technology
- | Digital camera for image overlay
- | Digital panorama view
- | Voice recording
- | On-site analysis
- | Alarm function
- | Two sensor resolutions available
- | Fall height 2 m
- | Testboy Reporter software

Areas of application

- | Preventive servicing
- | Leak detection and localisation of heating pipes
- | Building thermal imaging
- | Process monitoring
- | Detection of defective panels of PV installations during operation



SPECIFICATIONS

| Imaging performance | TV 294 – 160 Digital | TV 294 – 384 Digital |
|---|---|-----------------------------|
| Sensor type | Focal plane array (FPA), uncooled microbolometer | |
| Resolution | 160 × 120 pixels | 384 × 288 pixels |
| Pixel size Sensor size | 25 µm 4 × 3 mm | 25 µm 9.6 × 7.2 mm |
| Spatial resolution (IFOV) | 2.73 mrad | 1.37 mrad |
| Temperature resolution (NETD) | ≤ 0.08 °C at 30 °C | ≤ 0.06 °C at 30 °C |
| Field of view (FOV) Min. focus distance | 25° × 19° / 0.1 m | |
| Sensor data capture | 50 Hz | |
| Spectral range | 8 – 14 µm | |
| Focus Zoom | Manual 2 × electronic | |
| Image/display | | |
| LC display | 2.7" colour LCD | |
| Image frequency | 50/60 Hz | |
| CCD camera | 1.3 mega pixels | |
| Presentation | Panorama view | |
| Measurement characteristics | | |
| Temperature range | -20 – 350 °C | -20 – 600 °C |
| Accuracy | ± 2 °C or ± 2 % (the greater value applies) | |
| Emissivity correction | Variable from 0.1 to 1.0 (in 0.01 increments) | |
| Moveable measuring points Surface areas | 4 3 | |
| Line measurement | 2 | |
| Surface areas Min-Max temperature Average value | Yes Yes | |
| Isotherm analysis/Temperature differential | Yes Yes | |
| Alarm acoustic optical | Yes Yes | |
| Colour palettes | 11 | |
| Image settings | Automatic/manual (enhancement and brightness) | |
| Ambient temperature influence | Automatic correction according to user entry | |
| Correction of atmospheric radiation | Automatic correction according to user entry | |
| Other settings | Date, time, temperature unit, language | |
| Image storage | | |
| Storage medium | MicroSD card 2 GB | |
| Storage | Automatic/manual single image storage | |
| Data format | JPEG, with thermal measurement data | |
| Voice annotations | Up to 60 s per image | |
| Voltage supply | | |
| Battery mode | Li-Ion battery, operating time up to 3 h per battery, intelligent charger | |
| External voltage supply | 10 – 15 V DC | |
| Energy-saving function | Automatic power-off, sleep mode adjustable | |
| Interfaces | | |
| Video output Audio output | PAL/NTSC 3.5 mm pawl | |
| USB | Yes | |
| Environmental conditions | | |
| Fall height | Up to 2 m | |
| Operating temperature | -15 – 50 °C | |
| Humidity | ≤ 90 % non-condensing | |
| Protection class | IP54 | |
| Storage temperature | -25 – 60 °C | |
| Physical properties | | |
| Dimensions | 245 × 105 × 230 mm | |
| Weight (excl. battery) | 1 kg | |
| Tripod attachment | 1/4" -20 | |
| Laser pointer | Class 2, 1 mW / 635 nm (red) | |
| Equipment | | |
| Scope of delivery | Transportation case, charger with mains adapter, USB cable, lens cover, SD card, light shield, earphones, audio and video cables, operating instructions, Testboy Reporter software | |
| Accessories (optional) | Car charging adapter, wide-angle lens, telephoto lens | |

Testboy TV 295 Touch

Thermal imager

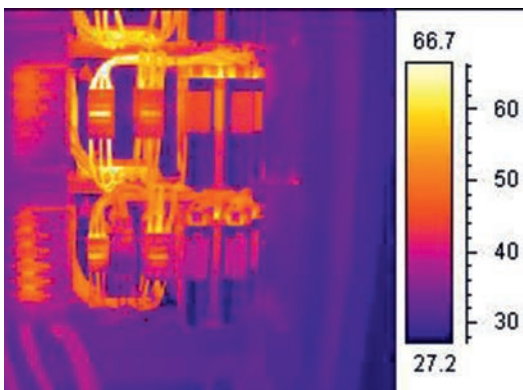
The innovative thermal imager, TV 295 Touch, has a 3.5 inch Touchscreen, LED light and laser pointer. Thereby, it is easy to operate. Nevertheless, it is robust and also survives a drop from a height of two metres undamaged. Due to Bluetooth® and Ethernet interface, it can be variably used and is also suitable for monitoring the process in real time.

How you benefit

- | Touchscreen
- | Bluetooth
- | Ethernet interface
- | LED light and laser pointer
- | Digital camera for image overlay
- | On-site analysis
- | Alarm function
- | Testboy Reporter software

Areas of application

- | Preventive servicing
- | Leak detection and localisation of heating pipes
- | Building thermal imaging
- | Process monitoring in real time
- | Research and development
- | PCB analysis from a short distance
- | Detection of defective panels of PV installations during operation



Bluetooth is a brand of Bluetooth SIG, Inc., Kirkland (Washington), USA.

SPECIFICATIONS

| Imaging performance | TV 295 – 160 Touch | TV 295 – 384 Touch |
|---|---|------------------------------------|
| Sensor type | Focal plane array (FPA), uncooled microbolometer | |
| Resolution | 160 × 120 pixels | 384 × 288 pixels |
| Pixel size Sensor size | 25 µm 4 × 3 mm | 25 µm 9.6 × 7.2 mm |
| Spatial resolution (IFOV) | 2.73 mrad | 1.37 mrad |
| Temperature resolution (NETD) | ≤ 0.08 °C at 30 °C | ≤ 0.06 °C at 30 °C |
| Field of view (FOV) Min. focus distance | 25° × 19° / 0.5 m | |
| Sensor data capture | 50 Hz | |
| Spectral range | 8–14 µm | |
| Focus Zoom | manual 2–4x electronic | |
| Image/display | | |
| LC display | 3.5" colour LCD (640 × 480 pixels) with touch function | |
| Image frequency | 50/60 Hz | |
| CCD camera | 3 mega pixels (including LED light) | |
| Presentation | Overlay of IR image and CCD image (fusion), panorama view | |
| Measurement characteristics | | |
| Temperature range | -20–350 °C (option up to +1000 °C) | -20–600 °C (option up to +1200 °C) |
| Accuracy | ± 2 °C or ± 2 % (the greater value applies) | |
| Emissivity correction | Variable from 0.1 to 1.0 (in 0.01 increments) | |
| Moveable measuring points Surface areas | 5 5 | |
| Line measurement | 2 | |
| Surface areas Min-Max temperature Average value | Yes Yes | |
| Isotherm analysis Temperature differential | Yes Yes | |
| Alarm acoustic optical | Yes Yes | |
| Colour palettes | 11 | |
| Image settings | Automatic/manual (enhancement and brightness) | |
| Ambient temperature influence | Automatic correction according to user entry | |
| Correction of atmospheric radiation | Automatic correction according to user entry | |
| Other settings | Date, time, temperature unit, language | |
| Image storage | | |
| Storage medium | MicroSD card 8 GB (max. 32 GB) | |
| Storage | Automatic/manual single image storage | |
| Data format | JPEG, with thermal measurement data; H.264 video transfer via network | |
| Voice annotations | Up to 60 s per image | |
| Voltage supply | | |
| Battery mode | Li-Ion battery, operating time up to 3 h per battery, intelligent charger | |
| External voltage supply | 10–15 V DC | |
| Energy-saving function | Automatic power-off, sleep mode adjustable | |
| Interfaces | | |
| Video output Audio output | PAL/NTSC 3.5 mm pawl | |
| USB Bluetooth Ethernet | Yes Yes Yes | |
| Environmental conditions | | |
| Fall height | Up to 2 m | |
| Operating temperature | -15–50 °C | |
| Humidity | ≤ 90 % non-condensing | |
| Protection class | IP54 | |
| Storage temperature | -25–60 °C | |
| Physical properties | | |
| Dimensions | 245 × 105 × 230 mm | |
| Weight (excl. battery) | 1 kg | |
| Tripod attachment | 1/4"-20 | |
| Laser pointer | Class 2, 1 mW / 635 nm (red) | |
| Equipment | | |
| Scope of delivery | Transportation case, charger with mains adapter, USB cable, lens cover, SD card, light shield, earphones, audio and video cables, operating instructions, Testboy Reporter software | |
| Accessories (optional) | Car charging adapter, wide-angle lens, telephoto lens | |

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