

Measuring/Testing

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Measuring/Testing



Testing plays a crucial role in setting up, maintaining and repairing electrical installations and devices.

Tests are crucial when setting up, servicing and repairing electrical installations and equipment. Please apply and adhere to the accident prevention and safety regulations relevant to your installation, which call for repeat tests after modifications and maintenance work in addition to the tests required before using the installation for the first time.

The person responsible for setting up the installation is required to check that the installation or individual components function perfectly. They must also ensure the compliance with the technological regulations, in particular the VDE regulations and

technical connection requirements (TAB) issued by the power supply companies.

It is also important to check that all precautionary measures to prevent extremely excessive contact voltage work perfectly in order to guarantee and comply with the necessary safety standard.

Using voltage and continuity testers from Weidmüller ensures that all tests are performed according to the relevant regulations.



Testing

Tests are crucial when installing, maintaining and repairing electrical systems and equipment. The voltage and continuity testers from Weidmüller help you to test in compliance with the international standards.



2-pole voltage testers

The main purpose of the voltage tester is to check the presence or absence of a voltage. The 2-pole voltage tester is an approved testing instrument that satisfies the requirements of the Industrial Safety Act.



Digital multimeters

Multimeters are able to measure a number of different parameters. The measuring options for voltage and resistance, plus continuity testing and the diode test are available on every instrument as standard.



Digital clamp-on meters

Digital clamp-on meters and clamp-on meter attachments and adapters are used for measuring AC and DC currents. The important advantage of these devices is that the measurements can be undertaken without interrupting the flow of current.



Infrared thermometer

The 610 LC infrared thermometer enables the temperature of a surface to be determined exactly, reliably, quickly – and without contact.



Continuity testers

The fully insulated plastic housings of our continuity testers are shockproof and unbreakable, and hence ideal for daily use in tough conditions. The integral lamp helps to find faulty lines quickly and safely. The continuity test can be indicated audibly and optically.



Contact-less testers

This category includes contact-less voltage testers for AC voltages and contact-less magnetic field testers. They are used to check the function of solenoid valves, coils, relays and contactors.



Power socket and residual-current circuit-breaker tester

This device combines two functions in one unit.

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Overview of applications and testing functions



6 V voltage test –
e.g. models



400 V voltage test –
3-phase voltage systems



Semiconductor check



12 V voltage test –
e.g. car batteries



3-48 V measuring range



Frequency check



24 V voltage test –
e.g. HGV batteries



Plug-in test probe



Capacitance check



50 V – limit of the dangerous voltage
range for the human body



Car Check



Resistance check



120 V voltage test – customary voltage
in some countries, e.g. USA



Test probe illumination



Phase sequence check



230 V/240 V voltage test – customary
voltage in the majority of European
countries



Polarity check



Continuity check

Digital voltage tester

Digi-Check 5.2

Digital voltage tester



- LCD incl. bar chart
- one-hand operation possible
- protection for test probe
- continuity test
- low-battery indicator
- HOLD function
- backlit display
- test probe illumination
- phase sequence test
- audible signal for voltage and continuity
- polarity detection
- single-pole phase test possible
- including protective pouch

Technical specification

Rated voltage, min.	5 V AC/DC
Rated voltage, max.	690 V AC/DC
Input resistance	≥ 300 kΩ ; +2.5 kΩ upon pressing the LOAD key
Peak resistance voltage	5 kV
Frequency range, min.	0 Hz
Frequency range, max.	2000 Hz
Function indicator	LCD
Measured resistance value, min.	
Measured resistance value, max.	2 Ω
Measured capacitance value, min.	1 μF
Measured capacitance value, max.	50 μF
Operating temperature, min.	-10 °C
Operating temperature, max.	55 °C
Ingress protection class	IP 50
Approval	EN/ IEC 61010
Weight	162 g

Ordering data

Type	Qty.	Order No.
DIGI-CHECK 5.2	1	9918870000
DIGI-CHECK 5.2 2 mm Probes	1	9201580000
incl. protective case		

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000
9V BATTERY	1	9004810000

Digi-Check 3.2

Digital voltage tester



- LCD incl. bar chart
- one-hand operation possible
- protection for test probe
- continuity test
- low-battery indicator
- HOLD function
- backlit display
- test probe illumination
- audible signal for voltage and continuity
- polarity detection
- single-pole phase test possible

Technical specification

Rated voltage, min.	5 V AC/DC
Rated voltage, max.	690 V AC/DC
Input resistance	≥ 300 kΩ
Peak resistance voltage	6 kV
Frequency range, min.	0 Hz
Frequency range, max.	100 Hz
Function indicator	LCD
Operating temperature, min.	-10 °C
Operating temperature, max.	55 °C
Ingress protection class	IP 50
Approval	EN/IEC 61243-3 (VDE 0682 part 401)
Weight	142 g

Ordering data

Type	Qty.	Order No.
DIGI-CHECK 3.2	1	9918850000
DIGI-CHECK 3.2 2 mm Probes	1	9201590000

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000
1,5V MICRO BATTERY	2	9201310000

Multi-Check 5.2

Digital voltage tester



- LCD incl. bar chart
- one-hand operation possible
- protection for test probe
- continuity test
- low-battery indicator
- HOLD function
- backlit display
- polarity detection
- single-pole phase test possible

Technical specification

Rated voltage, min.	5 V AC/DC
Rated voltage, max.	500 V AC/DC
Input resistance	≥ 300 kΩ
Peak resistance voltage	6 kV
Frequency range, min.	0 Hz
Frequency range, max.	100 Hz
Function indicator	LCD
Operating temperature, min.	-10 °C
Operating temperature, max.	55 °C
Ingress protection class	IP 50
Approval	EN/IEC 61243-3 (VDE 0682 part 401)
Weight	142 g

Ordering data

Type	Qty.	Order No.
MULTI-CHECK 5.2	1	9918920000
MULTI-CHECK 5.2 2 mm Probes	1	9201570000

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000
1,5V MICRO BATTERY	2	9201310000

LSP 1

2-pole voltage tester



- Automatic testing, identification and displays the large voltage range and types (AC/DC) and the polarity
- Concisely arranged LED display
- Phase testing to earth
- Polarity testing
- Continuity- and semiconductor testing
- Touch protection due to high input impedance
- Large voltage range
- Phase-sequence indicator
- High-performance solar cell combined with rechargeable lithium battery

Technical specification

Rated voltage, min.	12 V AC/DC
Rated voltage, max.	690 V AC/DC
Input resistance	500 kΩ
Peak resistance voltage	12 kV
Frequency range, min.	0 Hz
Frequency range, max.	2000 Hz
Function indicator	LED
DC voltage	12, 50, 120, 230, 400, 690 V
AC voltage	12, 50, 120, 230, 400, 690 V
Operating temperature, min.	-10 °C
Operating temperature, max.	55 °C
Ingress protection class	IP 65
Approval	EN/IEC 61243-3 (VDE 0682 part 401)
Weight	170 g

Ordering data

Type	Qty.	Order No.
LSP 1	1	9006880000

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000

2-pole voltage tester

Combi-Check 1.3

2-pole voltage tester



- One-hand operation possible
- Protection for test probe
- Continuity test
- Low-battery indicator
- Audible signal for voltage and continuity
- Polarity detection
- Single-pole phase test possible
- Test probe illumination
- Phase sequence test

Master-Check 3.2

2-pole voltage tester



- One-hand operation possible
- Protection for test probe
- Continuity test
- Low-battery indicator
- Polarity detection

Technical specification

Rated voltage, min.	6 V AC/DC
Rated voltage, max.	690 V AC/DC
Input resistance	≥ 300 kΩ
Peak resistance voltage	6 kV
Frequency range, min.	0 Hz
Frequency range, max.	100 Hz
Function indicator	LED
DC voltage	6, 12, 24, 50, 120, 230, 400, 690 V
AC voltage	6, 12, 24, 50, 120, 230, 400, 690 V
Operating temperature, min.	-10 °C
Operating temperature, max.	55 °C
Ingress protection class	IP 50
Approval	EN/IEC 61243-3 (VDE 0682 part 401)
Weight	135 g

Technical specification

Rated voltage, min.	6 V AC/DC
Rated voltage, max.	400 V AC/DC
Input resistance	≥ 300 kΩ
Peak resistance voltage	4 kV
Frequency range, min.	0 Hz
Frequency range, max.	100 Hz
Function indicator	LED
DC voltage	6, 12, 24, 50, 120, 230, 400 V
AC voltage	6, 12, 24, 50, 120, 230, 400 V
Operating temperature, min.	-10 °C
Operating temperature, max.	55 °C
Ingress protection class	IP 50
Approval	EN/IEC 61243-3 (VDE 0682 part 401)
Weight	135 g

Ordering data

Type	Qty.	Order No.
COMBI-CHECK 1.3	1	9918860000
COMBI-CHECK 1.3 2 mm Probes	1	9201270000

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000
1,5V MICRO BATTERY	2	9201310000

Ordering data

Type	Qty.	Order No.
MASTER-CHECK 3.2	1	9918880000
MASTER-CHECK 3.2 2 mm Probes	1	9201260000

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000
1,5V MICRO BATTERY	2	9201310000

Volt-Check 3.1

2-pole voltage tester



- LED indicator for voltage and phase
- PTC controlled
- polarity detection

Car-Check

2-pole voltage tester for cars



- Test probe
- Pin with sliding mechanism
- cable 130 cm long
- polarity detection

Technical specification

Rated voltage, min.	6 V AC/DC
Rated voltage, max.	400 V AC/DC
Input resistance	4...50 kΩ
Peak resistance voltage	5 kV
Frequency range, min.	0 Hz
Frequency range, max.	100 Hz
Function indicator	LED
DC voltage	6, 50, 120, 400 V
AC voltage	6, 50, 120, 400 V
Operating temperature, min.	-10 °C
Operating temperature, max.	50 °C
Ingress protection class	IP 40
Approval	EN/ IEC 61010
Weight	70 g

Technical specification

Rated voltage, min.	3 V DC
Rated voltage, max.	48 V DC
Function indicator	LED
Operating temperature, min.	-10 °C
Operating temperature, max.	50 °C
Weight	57 g

Ordering data

Type	Qty.	Order No.
VOLT-CHECK 3.1	1	9918950000
VOLT-CHECK 3.1 2 mm Probes	1	9201560000

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000

Ordering data

Type	Qty.	Order No.
CAR-CHECK	1	9918970000

Accessories

Type	Qty.	Order No.
Protective case	1	9201520000

Digital multimeter

Temphaser

Digital multimeter



- Measures voltages up to 600 V
- Resistance measurement and semiconductor test
- Capacitance measurement
- Frequency measurement
- Temperature measurement
- Phase sequence measurement possible
- Battery condition indicator

Multimeter 125S

Digital multimeter



- Measures voltages up to 600 V
- Resistance measurement and semiconductor test
- Automatic measuring range selection
- Battery condition indicator

Technical specification

DC voltage measuring range	0-600 V
Resolution, DC voltage	± 1.2%
AC voltage measuring range	0-600 V
Resolution, AC voltage	± 2%
Measured resistance value, min.	0.2 Ω
Measured resistance value, max.	2000 MΩ
Measured capacitance value, min.	20 μF
Measured capacitance value, max.	20 mF
Frequency range, min.	10 Hz
Frequency range, max.	40 kHz
Measured temperature value, min.	-20 °C
Temperature measuring range, max.	750 °C
Operating temperature, min.-max.	0 °C-50 °C
Approval	EN/ IEC 61010
Weight	340 g
incl. accessories (contents)	1x optional fuse ; 1x belt clip ; 1x test wire with alligator clip ; 1x temperature sensor ; 2x alligator clip ; 2x test wire with test probe

Ordering data

Type	Qty.	Order No.
TEMPHASER	1	9427300000

Accessories

Type	Qty.	Order No.
Accessories TEMPHASER	1	9428220000
9V BATTERY	1	9004810000

Ordering information for accessories: temperature sensor not included

Technical specification

DC voltage measuring range	0-600 V
Resolution, DC voltage	± 1.2%
AC voltage measuring range	0-600 V
Resolution, AC voltage	± 1.5%
Measured resistance value, min.	0.3 Ω
Measured resistance value, max.	30 MΩ
Operating temperature, min.	0 °C
Operating temperature, max.	50 °C
Approval	EN/ IEC 61010
Weight	323 g
incl. accessories (contents)	2x test wire with test probe; 1x belt clip

Ordering data

Type	Qty.	Order No.
MULTIMETER 125S	1	9425830000

Accessories

Type	Qty.	Order No.
Accessories 125S	1	9428250000
9V BATTERY	1	9004810000

Ordering information for accessories: belt clip not included

MG KIT CA 600

Digital multimeter + clamp-on attachment



- Measures voltages up to 600 V
- Currents up to 600 A with clamp-on attachment
- Resistance measurement and semiconductor test
- Capacitance measurement
- Frequency measurement
- Temperature measurement
- Phase sequence measurement possible
- Battery condition indicator

Technical specification

DC voltage measuring range	0-600 V
Resolution, DC voltage	± 1.2%
AC voltage measuring range	0-600 V
Resolution, AC voltage	± 2 %
AC current	600 A
Opening width of clamp-on attachment	30 mm
Measured resistance value, min.	0.2 Ω
Measured resistance value, max.	2000 MΩ
Measured capacitance value, min.-max.	20 µF-20 mF
Frequency range, min.-Frequency range, max.	10 Hz-40 kHz
Measured temperature value, min.	-20 °C
Temperature measuring range, max.	750 °C
Operating temperature, min.-max.	0 °C-50 °C
Approval	EN/ IEC 61010
Weight	910 g
incl. accessories (contents)	1x belt clip; 1x optional fuse; 1x test wire with alligator clip; 1x temperature sensor; 2x alligator clip; 2x test wire with test probe

Ordering data

Type	Qty.	Order No.
MG KIT CA 600	1	9427460000

Accessories

Type	Qty.	Order No.
Accessories TEMPHASER	1	9428220000
9V BATTERY	1	9004810000

Ordering information for accessories: temperature sensor not included

610 LC

Infrared thermometer



- Contactless measurement of temperatures from -20°C to +260°C
- Resolution: 1°C
- Measuring rate: 2.5 times per second
- Laser spot marking of measuring point
- backlit display
- incl. battery condition indicator
- Automatic switch-off
- including protective pouch

Technical specification

Measured temperature value, min.	-20 °C
Temperature measuring range, max.	260 °C
Weight	160 g

Ordering data

Type	Qty.	Order No.
THERMOMETER 610 LC	1	9427520000

Accessories

Type	Qty.	Order No.
1,5V MICRO BATTERY	2	9201310000

Digital multimeter / Digital clamp-on measuring instrument

Multimeter 1037

Digital multimeter



- Measures voltages up to 1000 V
- Current measurement with clamp-on attachment.
- Resistance measurement and semiconductor test
- Capacitance measurement
- Contactless voltage test possible
- MAX/MIN memory
- HOLD function
- Extensive accessories
- Battery condition indicator
- Incl. carry case

Technical specification

DC voltage measuring range	0-1000 V
Resolution, DC voltage	± 0.5%
AC voltage measuring range	0-750 V
Resolution, AC voltage	± 0.5%
AC current	200 A
Opening width of clamp-on attachment	23 mm
Measured resistance value, min.	200.0 mΩ
Measured resistance value, max.	200 kΩ
Measured capacitance value, max.	200 μF
Operating temperature, min.	0 °C
Operating temperature, max.	50 °C
Approval	EN/ IEC 61010
Weight	258 g
incl. accessories (contents)	1x carry case; 1x adapter for pliers; 2x test cable with alligator clip, wide; 2x test wire with alligator clip, small; 2x test wires; 2x test probe, short; 2x test probe, long

Ordering data

Type	Qty.	Order No.
MULTIMETER 1037	1	9423580000

Accessories

Type	Qty.	Order No.
Accessories 1037	1	9423570000
9V BATTERY	1	9004810000

Ordering information for accessories: clamp-on attachment and carrying case not included

Multimeter C 2606

Digital clamp-on measuring instrument



- Measures voltages up to 1000 V,
- currents up to 1000 A with clamp-on attachment.
- Resistance measurement and semiconductor test
- Capacitance measurement
- Frequency measurement
- MAX/MIN memory
- HOLD function
- PEAK function
- Battery condition indicator
- incl. carry case

Technical specification

DC voltage measuring range	0-1000 V
Resolution, DC voltage	± 0.5%
AC voltage measuring range	0-1000 V
Resolution, AC voltage	± 0.5%
AC current	1000 A
Opening width of clamp-on attachment	57 mm
Measured resistance value, min.	0.4 Ω
Measured resistance value, max.	40 MΩ
Measured capacitance value, min.	40 nF
Measured capacitance value, max.	4 μF
Frequency range, min.	0 kHz
Frequency range, max.	400 kHz
Operating temperature, min.-max.	0 °C-50 °C
Approval	EN/ IEC 61010
Weight	540 g
incl. accessories (contents)	1x carry case; 2x test wire with test probe

Ordering data

Type	Qty.	Order No.
MULTIMETER C 2606	1	9428240000

Accessories

Type	Qty.	Order No.
Accessories 2606	1	9428240000
9V BATTERY	1	9004810000

Ordering information for accessories: carrying case not included

Testboy® 20

Universal continuity tester



- Wiring and continuity tester
- single-pole phase test
- incl. LED lamp
- contactless voltage sensor
- high electric strength up to 400 V

Technical specification

Function indicator	visual & acoustic
Ingress protection class	IP 44
Approval	EN/ IEC 61010
Weight	90 g
Battery type	1.5 V type AA (Mignon) battery
incl. accessories (contents)	2x test wires

Ordering data

Type	Qty.	Order No.
TESTBOY 20	1	9201320000

Accessories

Type	Qty.	Order No.
Accessories TESTBOY 20	1	9201420000
Bag for Testboy 2+20	1	9203120000

Testboy® 2

Universal continuity tester



- Wiring and continuity tester
- single-pole phase test
- incl. lamp function

Technical specification

Function indicator	visual & acoustic
Ingress protection class	IP 44
Approval	EN/ IEC 61010
Weight	90 g
incl. accessories (contents)	2x test wires

Ordering data

Type	Qty.	Order No.
TESTBOY 2	1	9200880000

Accessories

Type	Qty.	Order No.
Accessories TESTBOY 2	1	9201410000
4,5V BATTERY	1	9201400000
Bag for Testboy 2+20	1	9203120000

Contactless magnetic field tester

Testboy® 120

Contactless magnetic field tester



- Reacts from a distance of 4 mm
- for testing operation of solenoid valves, relays, coils and contactors
- all magnetic fields can be tested
- incl. lamp function
- Visual indication

Testboy® 15

Contactless magnetic field tester



- Reacts from a distance of 4 mm
- for testing operation of solenoid valves, relays, coils and contactors
- all magnetic fields can be tested
- Visual indication

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Technical specification

Function indicator	visual
Ingress protection class	IP 44
Approval	EN/ IEC 61010
Weight	45 g

Technical specification

Function indicator	visual
Ingress protection class	IP 44
Approval	EN/ IEC 61010
Weight	22 g

Ordering data

Type	Qty.	Order No.
TESTBOY 120	1	9201390000

Ordering data

Type	Qty.	Order No.
TESTBOY 15	1	9201380000

Accessories

Type	Qty.	Order No.
1,5V MICRO BATTERY	2	9201310000

Accessories

Type	Qty.	Order No.
1,5V MICRO BATTERY	2	9201310000

Testboy® 10

Contactless voltage tester



- Reacts from a distance of 4 mm
- No current flow necessary thanks to capacitive method
- Detects concealed broken wires with a tolerance of just a few millimetres
- Detects voltage-conducting wires in sockets, cable reels, distributors, etc.
- Visual indication

Technical specification

Rated voltage, min.	120 V
Rated voltage, max.	1000 V
Function indicator	visual
Ingress protection class	IP 44
Approval	EN/ IEC 61010
Weight	22 g

Ordering data

Type	Qty.	Order No.
TESTBOY 10	1	9201370000

Accessories

Type	Qty.	Order No.
1,5V MICRO BATTERY	2	9201310000

Testboy® 11

Contactless voltage tester



- Reacts from a distance of 4 mm
- No current flow necessary thanks to capacitive method
- Detects concealed broken wires with a tolerance of just a few millimetres
- Detects voltage-conducting wires in sockets, cable reels, distributors, etc.
- Voltage can be detected even at inaccessible areas due to audible signal
- Visual and acoustic indication

Technical specification

Rated voltage, min.	120 V
Rated voltage, max.	1000 V
Function indicator	visual & acoustic
Ingress protection class	IP 44
Approval	EN/ IEC 61010
Weight	22 g

Ordering data

Type	Qty.	Order No.
TESTBOY 11	1	9201340000

Accessories

Type	Qty.	Order No.
1,5V MICRO BATTERY	2	9201310000

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Contactless voltage tester / Socket and RCD tester

Testboy® 100

Contactless voltage tester



- Reacts from a distance of 4 mm
- No current flow necessary thanks to capacitive method
- Detects concealed broken wires with a tolerance of just a few millimetres
- Detects voltage-conducting wires in sockets, cable reels, distributors, etc.
- with integrated torch function
- Visual indication

Schuki® 2

Socket and RCD tester



- Residual-current circuit-breaker tester with defined trip behaviour and adjustable rated fault current
- real-time display testing device for wiring to sockets, cable reels and extension cables
- also suitable for bridged earth-neutral earthing

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Technical specification

Rated voltage, min.	120 V
Rated voltage, max.	1000 V
Function indicator	visual
Ingress protection class	IP 44
Approval	EN/ IEC 61010
Weight	45 g

Technical specification

Rated voltage, min.	230 V
Rated voltage, max.	230 V
Frequency range, min.	50 Hz
Frequency range, max.	50 Hz
Function indicator	visual
Rated fault current	10, 30, 100, 300, 500 mA
Release time	200 ms
Approval	EN/ IEC 61010
Weight	100 g

Ordering data

Type	Qty.	Order No.
TESTBOY 100	1	9201330000

Ordering data

Type	Qty.	Order No.
SCHUKI 2	1	9201360000

Accessories

Type	Qty.	Order No.
1,5V MICRO BATTERY	2	9201310000

Accessories

Type	Qty.	Order No.

Schuki® 1

Socket and RCD tester



- Residual-current circuit-breaker tester with defined trip behaviour
- real-time display testing device for wiring to sockets, cable reels and extension cables
- also suitable for bridged earth-neutral earthing

Technical specification

Rated voltage, min.	230 V
Rated voltage, max.	230 V
Frequency range, min.	50 Hz
Frequency range, max.	50 Hz
Function indicator	visual
Rated fault current	30 mA
Release time	200 ms
Approval	EN/ IEC 61010
Weight	80 g

Ordering data

Type	Qty.	Order No.
SCHUKI 1	1	9201350000

Accessories

Type	Qty.	Order No.

Schuki® 3

Socket tester



- Real-time display testing device for wiring to sockets, cable reels and extension cables
- also suitable for bridged earth-neutral earthing

Technical specification

Rated voltage, min.	230 V
Rated voltage, max.	230 V
Frequency range, min.	50 Hz
Frequency range, max.	50 Hz
Function indicator	visual
Approval	EN/ IEC 61010
Weight	100 g

Ordering data

Type	Qty.	Order No.
SCHUKI 3	1	9200870000

Accessories

Type	Qty.	Order No.

