

# 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 is very important during the setup, maintenance and repair of electrical facilities and equipment. You can conduct your tests properly with Weidmüller's voltage and continuity testers. The devices comply with all of the relevant standards.



## 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     |



G



### 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.



### Network tester

Network testers enable you to make quick cabling tests and quick diagnoses of cabling errors.

# Overview of two-pole voltage testers

## Technical specification

|                              | Volt Check 3.1     | Car Check         | Master Check 3.2   | Combi Check 1.3    | LSP 3 400 V                       | LSP 3 690 V                       | Multi Check 5.2    | Digi Check 3.2     | Digi Check 5.2     |
|------------------------------|--------------------|-------------------|--------------------|--------------------|-----------------------------------|-----------------------------------|--------------------|--------------------|--------------------|
| Page number                  | Page G.10          | Page G.10         | Page G.9           | Page G.9           | Page G.8                          | Page G.8                          | Page G.7           | Page G.6           | Page G.6           |
| Order No.                    | <b>9918950000</b>  | <b>9918970000</b> | <b>9918880000</b>  | <b>9918860000</b>  | <b>9205050000</b>                 | <b>9205060000</b>                 | <b>9918920000</b>  | <b>9918850000</b>  | <b>9918870000</b>  |
| E-No.                        |                    |                   | 983 304 449        | 983 304 439        |                                   |                                   | 983 308 109        |                    | 983 308 119        |
| Rated voltage range          | 6 – 400 V<br>AC/DC | 3 – 48 V<br>DC    | 6 – 400 V<br>AC/DC | 6 – 690 V<br>AC/DC | 12 – 400 V<br>AC/DC               | 24 – 690 V<br>AC/DC               | 5 – 500 V<br>AC/DC | 5 – 690 V<br>AC/DC | 5 – 690 V<br>AC/DC |
| Display                      | LED + glow lamp    | LED               | LED                | LED                | LED                               | LED                               | LCD                | LCD                | LCD                |
| 6 V                          | x                  | 3 – 48 V          | x                  | x                  |                                   |                                   | x                  | x                  | x                  |
| 12 V                         |                    |                   | x                  | x                  | x                                 |                                   | x                  | x                  | x                  |
| 24 V                         |                    |                   | x                  | x                  | x                                 | x                                 | x                  | x                  | x                  |
| 50 V                         | x                  |                   | x                  | x                  | x                                 | x                                 | x                  | x                  | x                  |
| 120 V                        | x                  |                   | x                  | x                  | x                                 | x                                 | x                  | x                  | x                  |
| 230 V                        | x                  |                   | x                  | x                  | x                                 | x                                 | x                  | x                  | x                  |
| 400 V                        | x                  |                   | x                  | x                  | x                                 | x                                 | x                  | x                  | x                  |
| 690 V                        |                    |                   |                    | x                  |                                   | x                                 |                    | x                  | x                  |
| Polarity (+/-)               | x                  | x                 | x                  | x                  | x                                 | x                                 | x                  | x                  | x                  |
| Continuity test              |                    |                   | x                  | x                  | x                                 | x                                 | x                  | x                  | x                  |
| Acoustic signal tone         |                    |                   |                    | x                  |                                   |                                   |                    | x                  | x                  |
| Single-pole phase test       |                    |                   |                    | x                  | x                                 | x                                 | x                  | x                  | x                  |
| One-hand testing             |                    |                   | x                  | x                  |                                   |                                   | x                  | x                  | x                  |
| Illuminated measuring probes |                    |                   |                    | x                  |                                   |                                   |                    | x                  | x                  |
| HOLD function                |                    |                   |                    |                    |                                   |                                   | x                  | x                  | x                  |
| Phase sequence test          |                    |                   |                    | x                  | x                                 | x                                 |                    |                    | x                  |
| Capacitance measurement      |                    |                   |                    |                    |                                   |                                   |                    |                    | x                  |
| Frequency measurement        |                    |                   |                    |                    |                                   |                                   |                    |                    | x                  |
| Resistance measurement       |                    |                   |                    |                    |                                   |                                   |                    |                    | x                  |
| Selectable load              |                    |                   |                    |                    |                                   |                                   |                    |                    | Triggers FI        |
| Power supply                 |                    |                   | 2 x 1.5 V AAA      | 2 x 1.5 V AAA      | Solar cell + rechargeable battery | Solar cell + rechargeable battery | 2 x 1.5 V AAA      | 2 x 1.5 V AAA      | 9 V battery        |
| Order no., battery           |                    |                   | <b>9201310000</b>  | <b>9201310000</b>  |                                   |                                   | <b>9201310000</b>  | <b>9201310000</b>  | <b>9004810000</b>  |
| Order no., carry bag         | <b>9201520000</b>  | <b>9201520000</b> | <b>9201520000</b>  | <b>9201520000</b>  | <b>9201520000</b>                 | <b>9201520000</b>                 | <b>9201520000</b>  | <b>9201520000</b>  | <b>9201520000</b>  |

## Safety features

|                         |                   |                 |                   |                   |                   |                   |                   |                   |                 |
|-------------------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Peak resistance voltage | 5 kV              |                 | 4 kV              | 6 kV              | 12 kV             | 12 kV             | 6 kV              | 6 kV              | 5 kV            |
| VDE standard            | VDE 0411 part 031 |                 | VDE 0682 part 401 | VDE 0682 part 401 | VDE 0682 part 401 | VDE 0682 part 401 | VDE 0682 part 401 | VDE 0682 part 401 | VDE 0411        |
| EN/IEC standard         | EN/IEC 61010-031  |                 | EN/IEC 61243-3    | EN/IEC 61243-3    | EN/IEC 61243-3    | EN/IEC 61243-3    | EN/IEC 61243-3    | EN/IEC 61243-3    | EN/IEC 61010-1  |
| Dimensions              | 190 x 25 x 19     | 137 x 21 x 18   | 230 x 55 x 34     | 231 x 48 x 37     | 231 x 48 x 37     | 231 x 48 x 37     | 225 x 58 x 33     | 225 x 58 x 33     | 230 x 68 x 41   |
| Weight                  | 70 g              | 57 g            | 135 g             | 135 g             | 170 g             | 170 g             | 142 g             | 142 g             | 162 g           |
| Protection class        | IP40              |                 | IP50              | IP50              | IP65              | IP65              | IP50              | IP50              | IP50            |
| Operating temperature   | -10 °C...+50 °C   | -10 °C...+50 °C | -10 °C...+55 °C   | -10 °C...+55 °C   | -10 °C...+55 °C   | -10 °C...+55 °C   | -10 °C...+55 °C   | -10 °C...+55 °C   | -10 °C...+55 °C |

# Overview of digital multimeters

## Technical specification

|                              | <b>Temphaser</b>  | <b>125S</b>       | <b>1037</b>       | <b>2606</b>       | <b>MG Kit CA 600</b> |
|------------------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| Page number                  | Page G.11         | Page G.11         | Page G.13         | Page G.13         | Page G.12            |
| Order No.                    | <b>9427300000</b> | <b>9425830000</b> | <b>9423580000</b> | <b>9427370000</b> | <b>9427460000</b>    |
| Measurement range            |                   |                   |                   |                   |                      |
| • DC voltage                 | 0.2 – 600 V       | 0.32 – 600 V      | 0.2 – 1000 V      | 0.4 – 1000 V      | 0.2 – 600 V          |
| • AC voltage                 | 0.2 – 600 V       | 0.32 – 600 V      | 0.2 – 750 V       | 0.4 – 1000 V      | 0.2 – 600 V          |
| • DC current                 |                   |                   |                   | up to 1000 A      | 0 – 600 A            |
| • AC current                 |                   |                   | up to 200 A**     | up to 1000 A      | 0 – 600 A            |
| • Resistance                 | up to 2000 MΩ     | up to 30 MΩ       | up to 200 kΩ      | up to 40 MΩ       | up to 2000 MΩ        |
| • Capacitance                | 20 μF – 20 mF     |                   | up to 200 μF      | 4 nF – 40 μF      | 20 μF – 20 mF        |
| • Frequency                  | 10 Hz – 40 kHz    |                   |                   | 0.1 – 400 kHz     | 10 Hz – 40 kHz       |
| • Temperature                | –20 °C to +750 °C |                   |                   |                   | –20 °C to +750 °C    |
| Continuity test              | x                 | x                 | x                 | x                 | x                    |
| Diode test                   | x                 | x                 | x                 | x                 | x                    |
| Phase sequence test          | x                 |                   |                   |                   | x                    |
| Selection of measuring range | manual            | automatic         | manual            | automatic/manual  | manual               |
| HOLD function                |                   |                   | x                 | x                 |                      |
| MAX/MIN function             |                   |                   | x                 | x                 |                      |
| PEAK measurement             |                   |                   |                   | x                 |                      |
| Opening width of pliers      |                   |                   | 23 mm             | 57 mm             | 30 mm                |
| Standard                     | EN/IEC 61010-1    | EN/IEC 61010-1    | EN/IEC 61010-1    | EN/IEC 61010-1    | EN/IEC 61010-1       |
| Measurement range category   | CAT III 600 V     | CAT III 600 V     | CAT III 1000 V    | CAT III 1000 V    | CAT III 600 V        |
| Dimensions in mm             | 147 x 70 x 39     | 147 x 70 x 39     | 214.5 x 66 x 44   | 277 x 102 x 49    | 178 x 70 x 33        |

## Accessories

| Power supply           | 9 V battery                                                                                                                                           | 9 V battery                                     | 9 V battery                                                                                                                                                                                 | 9 V battery                                      | 9 V battery                                                                                                                                                                |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order no., battery     | <b>9004810000</b>                                                                                                                                     | <b>9004810000</b>                               | <b>9004810000</b>                                                                                                                                                                           | <b>9004810000</b>                                | <b>9004810000</b>                                                                                                                                                          |
| Accessories (included) | 2 x Test wires with test probe<br>1 x Test wire with alligator clip<br>2 x Alligator clip<br>1 x Temperature probe<br>1 x Belt clip<br>1 x Spare fuse | 2 x Test wires with test probe<br>1 x Belt clip | 2 x Test wires<br>2 x Short test probe<br>2 x Long test probe<br>2 x Test wire with alligator clip, thin<br>2 x Test wire with alligator clip, wide<br>1 x Pliers adapter<br>1 x Carry case | 2 x Test wires with test probe<br>1 x Carry case | 2 x Test wires with test probe<br>1 x Test wire with alligator clip<br>2 x Alligator clip<br>1 x Temperature probe<br>1 x Belt clip<br>1 x Spare fuse<br>1 x Portable case |
| Order No.              | <b>9205260000</b>                                                                                                                                     | <b>9205270000</b>                               | <b>9205460000</b>                                                                                                                                                                           | <b>9205270000</b>                                | <b>9205260000</b>                                                                                                                                                          |
| Accessories test wires | (without temperature probe)                                                                                                                           |                                                 | (without pliers adapter)                                                                                                                                                                    |                                                  | (without temperature probe)                                                                                                                                                |

\*\*when connected with pliers adapter\* acc. to EN 61243-3, in all low-voltage systems up to 1000 V

## Digital voltage testers

### Digital voltage testers

- LCD including bar chart
- One-hand testing is possible
- Protection for test probe
- Continuity test
- Low-battery indicator
- HOLD function
- Backlit illumination
- Polarity detection
- Single-pole phase test is possible

### Digi-Check 5.2

#### Digital voltage tester



- Acoustic indicator
- Test probe illumination
- Audible signal tone for voltage and continuity
- Selectable load for residual current test
- Phase sequence indicator

### Digi-Check 3.2

#### Digital voltage tester



- Test probe illumination
- Audible signal tone for voltage and continuity
- Acoustic indicator
- Including batteries



### Technical data

|                                  |
|----------------------------------|
| Rated voltage                    |
| Input resistance, voltage        |
| Peak voltage resistance          |
| Frequency range, min.            |
| Display                          |
| Resistance measuring range       |
| Measured capacitance value, min. |
| Operating temperature, min.      |
| Protection class                 |
| Approvals                        |
| Weight                           |
| <b>Note</b>                      |

|                                              |
|----------------------------------------------|
| <b>DIGI-CHECK 5.2</b>                        |
| 5...690 V AC/DC                              |
| ≥ 300 kΩ, +2.5 kΩ upon pressing the LOAD key |
| 5 kV                                         |
| 0...2000 Hz                                  |
| LCD                                          |
| 0.0...2 Ω                                    |
| 1...50 μF                                    |
| -10...55 °C                                  |
| IP 50                                        |
| EN / IEC 61010                               |
| 162 g                                        |

|                                      |
|--------------------------------------|
| <b>DIGI-CHECK 3.2</b>                |
| 5...690 V AC/DC                      |
| ≥ 300 kΩ                             |
| 6 kV                                 |
| 0...100 Hz                           |
| LCD                                  |
|                                      |
| -10...55 °C                          |
| IP 50                                |
| EN / IEC 61243-3 (VDE 0682 part 401) |
| 142 g                                |

### Ordering data

|                |
|----------------|
| <b>Version</b> |
|                |
| <b>Note</b>    |

| Type                         | Qty. | Order No.  |
|------------------------------|------|------------|
| DIGI-CHECK 5.2               | 1    | 9918870000 |
| DIGI-CHECK 5.2 – 2 mm probes | 1    | 9201580000 |
| Protective case included     |      |            |

| Type                         | Qty. | Order No.  |
|------------------------------|------|------------|
| DIGI-CHECK 3.2               | 1    | 9918850000 |
| DIGI-CHECK 3.2 – 2 mm probes | 1    | 9201590000 |

### Accessories

|             |
|-------------|
|             |
| <b>Note</b> |

| Type       | Qty. | Order No.  |
|------------|------|------------|
| SKAI BAG   | 1    | 9201520000 |
| BATTERY 9V | 1    | 9004810000 |

| Type               | Qty. | Order No.  |
|--------------------|------|------------|
| SKAI BAG           | 1    | 9201520000 |
| BATTERY 1.5V MICRO | 2    | 9201310000 |

Multi-Check 5.2

Digital voltage tester



- Battery included



| MULTI-CHECK 5.2                      |
|--------------------------------------|
| 5...500 V AC/DC                      |
| ≥ 300 kΩ                             |
| 6 kV                                 |
| 0...100 Hz                           |
| LCD                                  |
|                                      |
| -10...55 °C                          |
| IP 50                                |
| EN / IEC 61243-3 (VDE 0682 part 401) |
| 142 g                                |

| Type                          | Qty. | Order No.  |
|-------------------------------|------|------------|
| MULTI-CHECK 5.2               | 1    | 9918920000 |
| MULTI-CHECK 5.2 – 2 mm probes | 1    | 9201570000 |

| Type               | Qty. | Order No.  |
|--------------------|------|------------|
| SKAI BAG           | 1    | 9201520000 |
| BATTERY 1.5V MICRO | 2    | 9201310000 |

2-pole voltage tester

2-pole voltage tester

- Automatic testing, identification and display of voltage type (AC or DC) and polarity
- Concisely arranged LED display
- Phase testing relative to earth
- Polarity testing
- Continuity testing and semiconductor testing
- Touch protection because of high input resistance
- Large voltage range

LSP 3 - 400 V

2-pole voltage tester



- No battery: maintenance-free and eco-friendly
- Surge proof to 12kV
- Phase sequence indicator
- High-performance solar cell combined with rechargeable lithium battery

LSP 3 - 690 V

2-pole voltage tester



- No battery: maintenance-free and eco-friendly
- Surge proof to 12kV
- Phase sequence indicator
- High-performance solar cell combined with rechargeable lithium battery



Technical data

Rated voltage  
Input resistance, voltage  
Peak voltage resistance  
Frequency range, min.  
Display  
DC voltage display  
AC voltage display  
Operating temperature, min.  
Protection class  
Approvals  
Weight

Note

LSP 3 - 400V

12...400 V AC/DC  
12 kV  
0...2000 Hz  
LED  
-10...55 °C  
IP 65  
EN / IEC 61243-3 (VDE 0682 part 401)  
170 g

LSP 3 - 690V

24...690 V AC/DC  
12 kV  
0...2000 Hz  
LED  
-10...55 °C  
IP 65  
EN / IEC 61243-3 (VDE 0682 part 401)  
170 g

Ordering data

Version

Note

| Type         | Qty. | Order No.  |
|--------------|------|------------|
| LSP 3 - 400V | 1    | 9205050000 |

| Type         | Qty. | Order No.  |
|--------------|------|------------|
| LSP 3 - 690V | 1    | 9205060000 |

**Combi-Check 1.3****2-pole voltage tester**

- Acoustic indicator
- Phase sequence indicator
- Single-pole phase test
- Batteries included

**Master-Check 3.2****2-pole voltage tester**

- Batteries included

**COMBI CHECK 1.3**

6...690 V AC/DC

6 kV

0...100 Hz

LED

-10...55 °C

IP 50

EN / IEC 61243-3 (VDE 0682 part 401)

135 g

**MASTER-CHECK 3.2**

6...400 V AC/DC

4 kV

0...100 Hz

LED

-10...55 °C

IP 50

EN / IEC 61243-3 (VDE 0682 part 401)

135 g

| Type                          | Qty. | Order No.  |
|-------------------------------|------|------------|
| COMBI CHECK 1.3               | 1    | 9918860000 |
| COMBI CHECK 1.3 – 2 mm probes | 1    | 9204230000 |

| Type                           | Qty. | Order No.  |
|--------------------------------|------|------------|
| MASTER-CHECK 3.2               | 1    | 9918880000 |
| MASTER-CHECK 3.2 – 2 mm probes | 1    | 9201260000 |

| Type               | Qty. | Order No.  |
|--------------------|------|------------|
| SKAI BAG           | 1    | 9201520000 |
| BATTERY 1.5V MICRO | 2    | 9201310000 |

| Type               | Qty. | Order No.  |
|--------------------|------|------------|
| SKAI BAG           | 1    | 9201520000 |
| BATTERY 1.5V MICRO | 2    | 9201310000 |

## 2-pole voltage tester

## 2-pole voltage tester

## Car-Check

## 2-pole voltage tester for cars



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

## Volt-Check 3.1

## 2-pole voltage tester



- LED indicator for voltage and phase
- Polarity detection

## Technical data

|                             | CAR-CHECK   | Volt-Check 3.1  |
|-----------------------------|-------------|-----------------|
| Rated voltage               | 3...48 V DC | 6...400 V AC/DC |
| Input resistance, voltage   |             |                 |
| Peak voltage resistance     |             | 5 kV            |
| Frequency range, min.       |             | 0...100 Hz      |
| Display                     | LED         | LED             |
| DC voltage display          |             |                 |
| AC voltage display          |             |                 |
| Operating temperature, min. | -10...50 °C | -10...50 °C     |
| Protection class            |             | IP 40           |
| Approvals                   |             | EN / IEC 61010  |
| Weight                      | 57 g        | 70 g            |
| Note                        |             |                 |

## Ordering data

| Version | Type      | Qty. | Order No.  | Type                         | Qty. | Order No.  |
|---------|-----------|------|------------|------------------------------|------|------------|
|         | CAR-CHECK | 1    | 9918970000 | Volt-Check 3.1               | 1    | 9918950000 |
| Note    |           |      |            | Volt-Check 3.2 – 2 mm probes | 1    | 9205190000 |

## Accessories

| Type     | Qty. | Order No.  | Type     | Qty. | Order No.  |
|----------|------|------------|----------|------|------------|
| SKAI BAG | 1    | 9201520000 | SKAI BAG | 1    | 9201520000 |
| Note     |      |            |          |      |            |

## Digital multimeters

- Measures voltages up to 600 V
- Resistance measurement and semiconductor test
- Battery status display

## Temphaser

### Temphaser



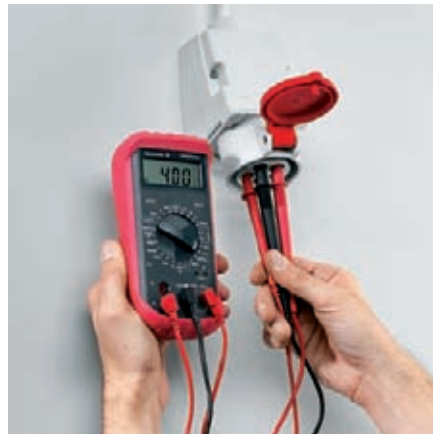
- Voltage and resistance measurements
- Capacitance and frequency measurements
- Temperature measurement (including temp. probe)
- Phase sequence measurement

## Multimeter 125S

### Digital multimeter



- Voltage and resistance measurements
- Automatic measuring range selection



## Technical data

DC voltage measuring range  
Degree of accuracy, DC voltage  
AC voltage measuring range  
Degree of accuracy, AC voltage  
Resistance measuring range  
Measured capacitance value, min.  
Frequency range, min.  
Temperature measuring range  
Operating temperature, min.  
Approvals  
Weight

### Note

### TEMPHASER

0.2 - 600 V

0.2 - 600 V

0.2...2000 MΩ

20...20 mF

10...40 kHz

-20...750 °C

0...50 °C

EN / IEC 61010

340 g

### MULTIMETER 125S

0.32 - 600 V

0.32 - 600 V

0.3...30 MΩ

0...100 Hz

0...50 °C

EN / IEC 61010

323 g

## Ordering data

### Version

### Note

| Type      | Qty. | Order No.  |
|-----------|------|------------|
| TEMPHASER | 1    | 9427300000 |

| Type            | Qty. | Order No.  |
|-----------------|------|------------|
| MULTIMETER 125S | 1    | 9425830000 |

## Accessories

### Note

| Type          | Qty. | Order No.  |
|---------------|------|------------|
| ZUB TEMPHASER | 1    | 9205260000 |

Ordering information for accessories: temperature sensor not included

| Type           | Qty. | Order No.  |
|----------------|------|------------|
| ZUB MULTIMETER | 1    | 9205270000 |

Ordering information for accessories: belt clip not included

## Digital multimeters and current-measuring clamp-on attachment

### Digital multimeters and current-measuring clamp-on attachment

- Measures voltages up to 600 V
- Measures currents up to 600 A with clamp-on attachment
- Resistance measurement and semiconductor test
- Battery status display

### MG KIT CA 600

#### Digital multimeter + clamp-on attachment



- Capacitance measurement
- Frequency measurement
- Temperature measurement
- Phase sequence measurement is possible



### Technical data

| MG KIT CA 600                                          |                |
|--------------------------------------------------------|----------------|
| DC voltage measuring range                             | 0.2 - 600 V    |
| Degree of accuracy, DC voltage                         |                |
| AC voltage measuring range                             | 0.2 - 600 V    |
| Degree of accuracy, AC voltage                         |                |
| Measured current value, max.                           | 600 A          |
| Opening width of current-measuring clamp-on attachment | 30 mm          |
| Resistance measuring range                             | 0.2...2000 MΩ  |
| Measured capacitance value, min.                       | 20...20 mF     |
| Frequency range, min.                                  | 10...40 kHz    |
| Temperature measuring range                            | -20...750 °C   |
| Operating temperature, min.                            | 0...50 °C      |
| Approvals                                              | EN / IEC 61010 |
| Weight                                                 | 910 g          |
| <b>Note</b>                                            |                |

### Ordering data

| Version     | Type          | Qty. | Order No.  |
|-------------|---------------|------|------------|
|             | MG KIT CA 600 | 1    | 9427460000 |
| <b>Note</b> |               |      |            |

### Accessories

| Type                                                                                       | Qty. | Order No.  |
|--------------------------------------------------------------------------------------------|------|------------|
| ZUB TEMPHASER                                                                              | 1    | 9205260000 |
| <b>Ordering information for accessories:</b> temperature sensor and belt clip not included |      |            |
| <b>Note</b>                                                                                |      |            |

Digital multimeter

- Can measure voltages up to 1000 V
- Resistance measurement and semiconductor test
- Capacitance measurement
- MAX/MIN memory
- HOLD function
- Battery status display
- Carry case included

Multimeter 1037

Digital multimeter



- Voltage measurement
- Current measurement
- Resistance measurement
- Non-contact voltage measurement is possible
- Extensive accessories



Multimeter 2606

Digital clamp-on measuring device



- Currents up to 1000 A with clamp-on attachment.
- Frequency measurement
- Voltage measurement
- Current measurement
- PEAK function



Technical data

|                                                        |
|--------------------------------------------------------|
| DC voltage measuring range                             |
| Degree of accuracy, DC voltage                         |
| AC voltage measuring range                             |
| Degree of accuracy, AC voltage                         |
| Measured current value, max.                           |
| Opening width of current-measuring clamp-on attachment |
| Resistance measuring range                             |
| Measured capacitance value, min.                       |
| Frequency range, min.                                  |
| Temperature measuring range                            |
| Operating temperature, min.                            |
| Approvals                                              |
| Weight                                                 |
| Note                                                   |

|                 |  |                |
|-----------------|--|----------------|
| MULTIMETER 1037 |  |                |
|                 |  | 0.2 - 1000 V   |
|                 |  | 0.2 - 750 V    |
|                 |  | 200 A          |
|                 |  | 23 mm          |
|                 |  | 200.0...200 kΩ |
|                 |  | ...200 μF      |
|                 |  | 50...500 Hz    |
|                 |  | 0...50 °C      |
|                 |  | EN / IEC 61010 |
|                 |  | 258 g          |
|                 |  |                |

|                   |  |                |
|-------------------|--|----------------|
| MULTIMETER C 2606 |  |                |
|                   |  | 0.4 - 1000 V   |
|                   |  | ± 0.5 %        |
|                   |  | 0.4 - 1000 V   |
|                   |  | ± 0.5 %        |
|                   |  | 1000 A         |
|                   |  | 57 mm          |
|                   |  | 0.4...40 MΩ    |
|                   |  | 40...4 μF      |
|                   |  | 0.1...400 kHz  |
|                   |  | 0...50 °C      |
|                   |  | EN / IEC 61010 |
|                   |  | 540 g          |
|                   |  |                |

Ordering data

|         |
|---------|
| Version |
| Note    |

|                 |      |            |
|-----------------|------|------------|
| Type            | Qty. | Order No.  |
| MULTIMETER 1037 | 1    | 9423580000 |

|                   |      |            |
|-------------------|------|------------|
| Type              | Qty. | Order No.  |
| MULTIMETER C 2606 | 1    | 9427370000 |

Accessories

|      |
|------|
| Note |
|------|

|                                                                                          |      |            |
|------------------------------------------------------------------------------------------|------|------------|
| Type                                                                                     | Qty. | Order No.  |
| ZUB MULTI 1037                                                                           | 1    | 9205460000 |
| BATTERY 9V                                                                               | 1    | 9004810000 |
| Ordering information for accessories: clamp-on attachment and carrying case not included |      |            |

|                                                                  |      |            |
|------------------------------------------------------------------|------|------------|
| Type                                                             | Qty. | Order No.  |
| ZUB TEMPHASER                                                    | 1    | 9205270000 |
| BATTERY 9V                                                       | 1    | 9004810000 |
| Ordering information for accessories: carrying case not included |      |            |

Accessories

The accessories for our measuring instruments meet the same demanding standards for quality and safety as those used for our instruments.

ZUB Temphaser



| Included in delivery          | Qty. | Order No.  |
|-------------------------------|------|------------|
| Test wire with test probe     | 2    |            |
| Test wire with alligator clip | 1    |            |
| Alligator clip                | 2    |            |
|                               |      |            |
|                               |      |            |
|                               |      |            |
|                               |      |            |
| ZUB TEMPHASER                 |      | 9205260000 |

ZUB Multimeter 1037



|                                     |   |            |
|-------------------------------------|---|------------|
| Test wire                           | 2 |            |
| Short test probe                    | 2 |            |
| Long test probe                     | 2 |            |
| Test wire with alligator clip, thin | 2 |            |
| Test wire with alligator clip, wide | 2 |            |
|                                     |   |            |
| ZUB MULTI 1037                      |   | 9205460000 |

PS ZQV test adapter



|                                       |   |            |
|---------------------------------------|---|------------|
| PS ZQV set: test wire with test probe | 2 |            |
| PS ZQV: test probe                    | 2 |            |
|                                       |   |            |
|                                       |   |            |
|                                       |   |            |
| PS_ZQV_SET                            |   | 1116710000 |
| PS_ZQV                                |   | 1121740000 |

ZUB Multimeter



|                           |   |            |
|---------------------------|---|------------|
| Test wire with test probe | 2 |            |
|                           |   |            |
|                           |   |            |
|                           |   |            |
|                           |   |            |
|                           |   |            |
| ZUB MULTIMETER            |   | 9205270000 |

SKAI pouch



|                                 |   |            |
|---------------------------------|---|------------|
| Pouch for 2-pole voltage tester | 1 |            |
|                                 |   |            |
|                                 |   |            |
|                                 |   |            |
|                                 |   |            |
|                                 |   |            |
| SKAI POUCH                      |   | 9201520000 |

## Cable tester

## LAN USB

## IE-CT



## Technical data

## Functionality

Device for testing  
Ethernet cables for:  
line interruption  
core interruption  
short-circuits  
examination of the twist

## LED display

max. 1000 m  
9 V battery (Art. Nr. - 9004810000)  
RJ 45; USB TypA; USB TypB  
174 g  
65 x 135 x 27 mm  
30 g  
65 x 28 x 27 mm

Device for testing  
Ethernet cables for:  
interference voltage  
line interruption  
core interruption  
short-circuits  
crossed wires  
examination of the twist

## 7-segment display

80 V AC / DC  
max. 1000 m  
9 V battery  
RJ45  
185 g  
70 x 140 x 36 mm

31 g  
30 x 68 x 23 mm

Error display play  
External voltage  
Testable cable length  
Supply tery  
Connection for core  
Weight basic device  
Dimensions basic device  
Remote box weight  
Remote box dimensions  
Weight testbox  
Dimensions testbox

## Ordering data

| Type           | Qty. | Order No.  |
|----------------|------|------------|
| LAN USB TESTER | 1    | 9205400000 |

Battery, accessories and bag included in delivery

| Type  | Qty. | Order No.  |
|-------|------|------------|
| IE-CT | 1    | 8808420000 |

9 V battery included

## Note

## Accessories

## Note

