

Product Catalog Electrical









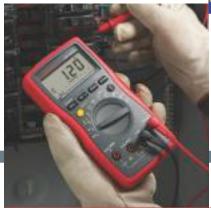
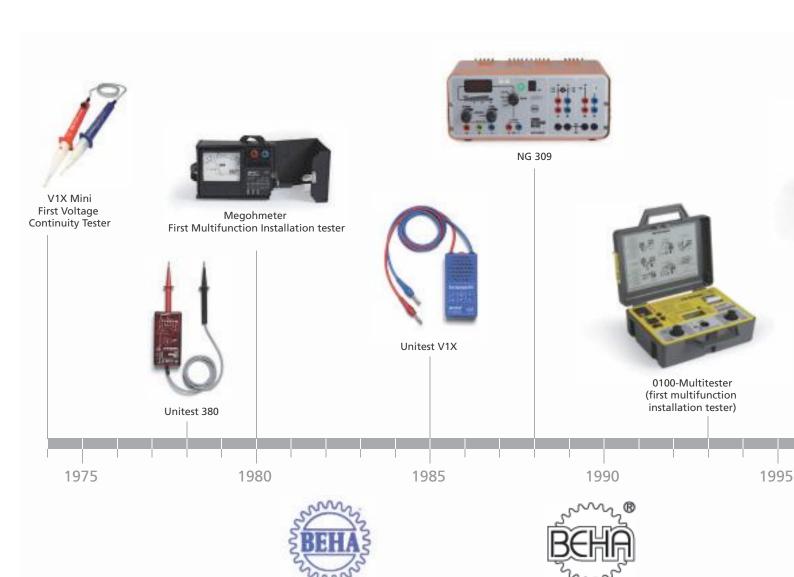






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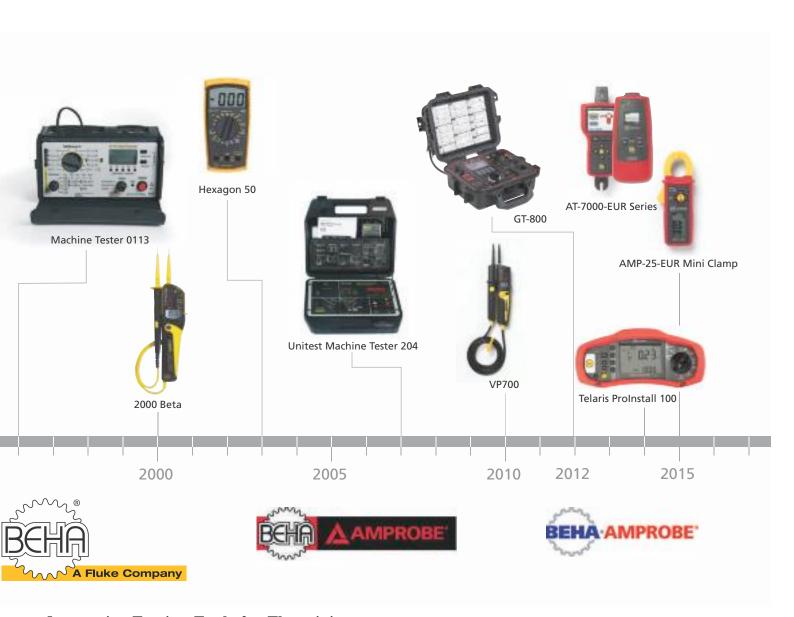
More than 40 years of Beha-Amprobe: milestones of the brand

Nearly 70 years ago, in 1948, the very first inductive clamp meter named "Amprobe" was invented in the United States by Pyramid Instrument Company. Soon after, the Amprobe name became so synonymous in the US with clamp meters that in 1960 the company name was formally changed to Amprobe Instrument Corporation.

Fourteen years later in Glottertal, Germany, Christian Beha invented the V1X, a continuity tester designed to replace his previous model after it failed on the job. An immediate success, the V1X ushered in a period of rapid growth for the company. By the mid-90s, Beha was a respected name in the electrical industry.

Recognizing the strength and quality of each brand, Danaher Corporation bought Beha and Amprobe in 2003 and 2006 respectively. Today, our combined legacies span over 100 years of bringing safety, speed and ease to the HVAC and electric professional with high-quality test and measurement tools.

From multimeters to voltage detectors, we are always improving on our designs to provide you with the very best quality in tools and support.



Innovative Testing Tools for Electricians

Our products are sold by a global network of trusted partners with a professional support team at your service, making Beha-Amprobe the natural choice. Whether you need test and measurement tools for industrial, commercial or residential applications, Beha-Amprobe offers innovative test equipment to fit your needs.

Every tool undergoes rigorous testing in our lab and by certified third-parties to ensure the rugged durability, quality and safety you've come to expect from us.

Our new products and recommendations

BAT-250-EUR

Battery analyzer

More information can be found on page 13

BAT-250-EUR Article no. **4620297**



2100-Gamma

Voltage and continuity tester with phase sequence indication, resistance measurement and NCV

CAT III 1000 / CAT IV 600, 6 - 1000 V AC, 6 - 1200 V DC

More information can be found on page 11

2100-GAMMA Article no. **4709243**



AMP-25-EUR

AC/DC TRMS mini clamp

More information can be found on page 38

AMP-25-EUR Article no. **4588268**



AT-7000-EUR series

Multi-function cable locator Wire tracing reinvented

More information can be found on page 20

AT-7020-EUR
Article no. 4542794
AT-7030-EUR (illustrated here)
Article no. 4542782

AMP-200-EUR series

Clamp meters
True-RMS clamp meters

An alternative to our previous products:

ACD-14 TRMS-P

ACD-14 TRMS-PLUS, ACD-10 TRMS-PLUS ACDC-100 TRMS

ACDC-400

More information can be found on page 38

AMP-210-EUR Article no. **4560581** AMP-220-EUR (illustrated here) Article no. **4560590**



AMP-300-EUR series

Clamp meters TRMS clamp meters for motor maintenance

An alternative to our previous products:

ACD-14 TRMS-PLUS ACD-10 TRMS-PLUS ACDC-100 TRMS ACDC-400

More information can be found on page 39

AMP-310-EUR Article no. **4560603** AMP-320-EUR Article no. **4560615** AMP-330-EUR (illustrated here) Article no. **4560626**





ACD-14-PRO-EUR

Current clamp with dual display (AC)

An alternative to our previous products:
ACD-14 Plus
ACD-14 TRMS-PLUS

More information can be found on page 40

ACD-14-PRO-EUR Article no. **4718989**



AM-500-EUR series

Digital multimeter

An alternative to our previous products:

5XP-A

30XR-A 33XR-A 34XR-A 35XP-A 37XR-A 38XR-A

More information can be found on page 27

AM-550-EUR

AM-500-EUR Article no. **4102332** AM-510-EUR Article no. **4102344** AM-520-EUR Article no. **4131281** AM-530-EUR

Article no. **4131296**

20005

AM-540-EUR Article no. **4131308** AM-550-EUR Article no. **4131313**

PRM-5-EUR

Phase sequence indicator

An alternative to our previous products: **DR 100**

More information can be found on page 14

PRM-5-EUR Article no. **4375961**



PRM-6-EUR

Motor and Phase Rotation Indicators

An alternative to our previous products: DR 705

More information can be found on page 14

PRM-6-EUR Article no. **4633222**



Light adapters

4854835 ADPTR-KIT1-EUR Light Check Adapter Kit EUR w/carrying case 4854847 ADPTR-E27-EUR Light Check Adapter E27 4854858 ADPTR-B22-EUR Light Check Adapter B22 4854864 ADPTR-E14-EUR Light Check Adapter E14 4854873 ADPTR-B15-EUR Light Check Adapter B15 4854886 ADPTR-GU10-EUR Light Check Adapter GU10





Socket testers

4854820 ADPTR-SCT-UK Socket Check Adapter UK 4854899 ADPTR-SCT-EUR Socket Check Adapter Schuko 4854900 ADPTR-PE-EUR Socket Check Adapter Schuko PE

ProInstall-75-UK

Multifunction Installation Tester (for UK)



Electric testing equipment



Our range of electric testing equipment covers standard equipment for any electrician, including the latest voltage detectors, non-contact voltage testers in a compact pen design, continuity phase rotation indicators for safely establishing the phase sequence, and motor rotation direction.

Products

Voltage detectors / testers	10
Lamp testers	11
Continuity testers	13
Phase rotation indicators	14

Symbols used in this chapter

Rx	Continuity test (optical and/or acoustic)	~/_ AC/DC	DC and AC voltage
RCD / FI	Trip test or internal load for triggering a residual current circuit breaker (RCD/FI)	13 t1	Phase sequence indication
LED	Display with LED	IP 65	IP protection category (e.g. IP65)
LCD	Display with LCD		Water-resistant (spray, jets of water)
	Lighting of measurement points		Dust-resistant
02k	Resistance measurement (e.g. 02 kΩ)	Data Hold	Measurement memory for barely visible or readable measurement results
***	Back light	V non contact	Non-contact detection of AC voltage
no battery	No battery needed		Detecting magnetic fields
AC AC	Alternating current	•))	Acoustic recognition of (alternating) current
CAT IV 600 V	Disclosure of measurement category in accordance with EN 61010, DIN VDE 0411		



Model	2100-ALPHA	2100-BETA	2100-GAMMA	VOLTfix plus	VOLTfix Drill	MAGNO-VOLTfix
Model.	2100-ALPHA	2100-BETA	2100-GAMMA	2052-D	2054-D	2050-D
Display	LED bar chart display	LED bar chart display LCD 3-1/2-digit	LED bar chart display LCD 3-1/2-digit	1 LED	2 LEDs	2 LEDs
Voltage test	азрау	200 3 1/2 digit	ECD 3 1/2 digit			
Range/resolution	12, 24, 50, 120, 230, 400, 690 V	12, 24, 50, 120, 230, 400, 690 V 12690 V / 1 V	12, 24, 50, 120, 230, 400, >690 V, 61000 V AC, 61200 V DC / 1 V	50600 V AC	50600 V AC	50600 V AC
Tolerance AC/DC	in accordance with DIN VDE 0682-401	in accordance with DIN VDE 0682-401	in accordance with DIN VDE 0682-401			
Test current (at voltage)	< 3.5 mA (690 V)	< 3.5 mA (690 V)	<3.5 mA AC at 1000 V AC/ <4.5 mA DC at 1200 V DC			
Basic load (at voltage)	Approximately 2.4 W at 690 V	Approximately 2.4 W at 690 V	Approximately 3.5 W at 1000 V AC/approx. 5.4 W at 1200 V DC			
Automatic turn-on threshold	Approximately 12 V	Approximately 12 V	LED: >12 V, LCD: >6V	Approximately 50 V	Approximately 50 V	Approximately 50 V
Measurement Category	CAT IV / 600 V CAT III / 690 V	CAT IV / 600 V CAT III / 690 V	CAT IV / 600V CAT III / 1000 V	CAT III / 600V	CAT III / 600V	CAT III / 600V
Frequency						
Voltage test	DC, 16.7 400 Hz	DC, 16.7 400 Hz	DC, 16.7400 Hz	50500 Hz	50500 Hz	50500 Hz
Polarity	overall area	overall area	overall area			
Phase sequence detection	340400 VAC / 4763 Hz	340400 VAC / 4763 Hz	1701000 VAC / 4070 Hz			
Continuity test						
Area/Signaling	$0500 k\Omega$ optically/acoutically	$0500 \text{ k}\Omega$ optically/acoustically	0500 kΩ optically/acoustically Low resistance indication: <10-50 Ω		03 ΜΩ	
Test Current	<5µA	<5µA	<5μΑ		Approximately 0.3µA	
Resistance Measurement			01999 Ω			
Overall						
Additional load	Approximately 240 W at 690 V, ≤ 200 mA	Approximately 240 W at 690 V, ≤ 200 mA	Approximately 300 W at 1000 VAC / Approximately 420 W at 1200 VDC			
On-time recovery time	max. 30 s/240 s	max. 30 s/240 s	max. 30 s/240 s	constant	constant	constant
Power supply	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC LR03
Voltage AC/DC testing	•	•	•	AC only	AC only	AC only
Automatic range selection	•	•	•			
Single-pole phase testing	•	•	•		•	
Non-contact voltage indicator/ electrical field (NCV/EF)			•	•	•	•
Automatic internal nominal load	•	•	•			
Accessory Case	CC-VP-7xx	CC-VP-7xx	CC-VP-7xx			
Features	Continuity mea- surement, sin- gle-pole phase test, lighting of mea- surement points	Continuity measure- ment, single-pole phase test, lighting of measurement points, digital LCD	Resistance measurement range, low resistance con- tinuity test, single-pole phase test, lighting of measurement points, digital LCD, NVC			





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2100-ALPHA

Voltage and continuity tester with phase sequence indication

Functions

- Voltage test
- Optical and acoustic continuity and voltage test
- Patented phase rotation indicator, no 3rd hand required
- Single-pole phase test
- Polarity

Product information

- Switchable load (load tester) of 240 W via two push buttons, triggering a RCD/FI up to 30 mA
- IP 64, water and dust-resistant
- Integrated probe-tip protection for reducing the danger of injuries
- Fully functional voltage indicator even without batteries or if batteries are empty

Product highlights

2100-BETA

- No unintentional triggering of RCD/FI circuit breakers
- Fast single-handed testing of power sockets with 19 mm contact clearance, without the probe coming away from the unit
- Lighting of measurement points via white LED
- Extremely robust construction with doubly insulated wires

Voltage and continuity tester with

phase sequence indication As the 2100-ALPHA, also with: • Digital LCD 12...690 V AC/DC

Technical specifications

Display

LED bar graph display ±12, ±24, 50, 120, 230, 400, 690 V

Graphical LCD, 12...690 V AC/DC 12...690 V AC/DC

Voltage range Direct current / alternating current

Frequency range Internal nominal load Test current Switchable load Test current with load Rotating field definition

Frequency range Single-pole phase test Voltage range

Frequency range Continuity test
Switching threshold Test current Safety cert

Measurement Pollution Degree **Protection Category** Power supply

Current consumption Dimensions Weight

automatic recognition DC 16 2/3 Hz... 400 Hz approx. 2.4 W at 690 V ≤3.5 mA (without key activation) approx. 240 W (at 690 V) ≤ 350 mA

340...440 V AC (phase conductor) 47...63 Hz

180 ... 690 V AC 40...70 Hz

approx. 500 $k\Omega$ $<5 \mu A$ DIN VDE 0682-401, EN 61243-3 CAT IV / 600 V, CAT III / 690 V

IP 64, water and dust-resistant 2 x battery 1.5 V Micro, IEC LR03 max. 60 mA

approx. 280 x 78 x 35 mm approx. 320 g

















Accessories:

Carrying case Model CC-VP-7xx





LCD







Scope of delivery 2100 ALPHA/BETA:



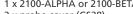
2 x probe cover (GS38)

2 x 4-mm-probe extenders (screwable)

2 x batteries 1.5 V, IEC LR 03 (AAA), Micro

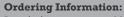
1 x user manual







Spare part: 2100-ACCS 4 mm probe extenders and probe tip covers Model 2100-ACCS



Description	Model	Article no.
2100-ALPHA	2100-ALPHA*	4312495
2100-BETA	2100-BETA*	4312508
Carrying case	CC-VP-7xx	3889931
2100-ACCS (Spare part)	2100-ACCS	4736214

* Packing unit of 10 items (also available individually)







IP

























Data

Hold

Included:

- 1 x 2100-GAMMA
- 2 x probe cover (GS38)
- 2 x 4-mm probe extenders (screwable) 2 x batteries 1.5 V, IEC LR 03 (AAA), Micro
- 1 x user manual



Accessories:

Carrying case Model CC-VP-7xx



Spare part: 2100-ACCS 4 mm probe extenders and probe tip covers Model 2100-ACCS













Included:

- 1 x LT-10-EUR
- 1 x antenna, 122cm
- 1 x adapter plate for fluorescent tubes
- 1 x antenna for sodium vapour lamps
- 1 x carrying case
- 1 x user manual

2100-**GAMMA**

Voltage and continuity tester with phase sequence indication, resistance measurement and NCV

Functions

- Voltage test up to 1000 V alternating current and 1200 V direct current
- Digital LCD 12...1000 V AC/ 1200 V DC
- Measures resistance up to 1999 Ohm
- Optical and acoustic continuity and voltage test
- Low resistance continuity measurement <10...50 Ohm
- · Patented phase rotation indicator, no 3rd hand required
- Single-pole phase test
- Polarity
- Non-contact voltage (NCV/EF) detection

Product information

- Switchable load (load tester) of 300 W at 1000 VAC / 420 W at 1200 VDC via two push buttons, triggering a RCD/FI up to 30 mA
- IP 64, water and dust-resistant
- Integrated probe-tip protection for reducing the danger of injuries

Product highlights

- No unintentional triggering of RCD/FI circuit
- Fast single-handed testing of power sockets with 19 mm contact clearance, without the probe coming away from the unit
- Lighting of measurement points via white LED
- Extremely robust construction with doubly insulated wires

Ordering Information:

Description Model Article no. 2100-GAMMA 2100-GAMMA*4709243 Carrying case CC-VP-7xx 3889931 2100-ACCS (Spare part) 2100-ACCS 4736214

* Packing unit of 10 items (also available individually)

Technical specifications

Display LED bar graph display

±12, 24, 50, 120, 230, 400, ≥690V

LCD, 6...1000 V AC/ 1200 V DC

Voltage range 6...1000 V AC/ 1200 V DC

Direct/

Alternating current automatic recognition DC, 16 2/3 Hz...400 Hz Frequency range Internal nominal load approx. 3.5 W at 1000 VAC /

5.4 at 1200 VDC

≤3.5 mA at 1000 VAC / Test current

≤4.5 mA at 1200 VDC (without key activation)

Switchable load approx. 300 W at 1000 V AC/ Approximately 420 W at 1200 VDC

≤300 mA AC at 1000 V AC/ Test current with load ≤350 mA DC at 1200 V DC

Rotating field definition 170...1000 V AC (phase conductor) 40...70 Hz Frequency range

Single-pole phase test

Test current

100 ... 1000 V AC Voltage range 40...70 Hz Frequency range Continuity measurement of switching threshold

approx. 500 kΩ Test current <5 uA Resistance measurement range/resolution 0...1999 Ω/1 Ω

 $<30 \mu A$

Low resistance indication acoustic indication <10...50 Ω Overvoltage protection $\,$ 1000 V AC/1200 V DC

Non-contact voltage indicator (NCV/EF) Voltage range 100...1000 V AC Frequency range 50...60 Hz Display

Three-stage display via LCD segments

DIN VDE 0682-401, EN 61243-3 Safety cert Measurement CAT IV / 600 V, CAT III / 1000V

Pollution Degree

Protection Category IP 64, water and dust-resistant Power supply 2 x battery 1.5 V Micro, IEC LR03 Current consumption max. 60 mA approx. 280 x 78 x 35 mm

Dimensions Weight approx. 320 g

LT-10-EUR

Lamp Tester

Functions

- Testing fluorescent lamps of various types
- Non-contact voltage detection
- Direct testing of lamp contacts

Product information

- Simple single-hand/1-button operation
- Extremely compact pocket-size design
- Compatible with the most common fluorescent lamps:
- T2, T4, T5, T8, T9, T10, T12
- energy-saving fluorescent lamps
- Including sodium vapour lamp antenna for testing additional lamps:
- Sodium vapour low-pressure lamps
- Sodium vapour high-pressure lamps
- Fluorescent tubes
- Mercury vapour lamps
- Halogen metal vapour lamps

Device highlight

• Integrated, highly-sensitive 122 cm antenna (can be removed and inserted) enables testing of both lamp and voltage without a conductor

Technical specifications

Display

Test voltage approx. 3 kV / 280 kHz (with new battery)

Non-Contact Field strength: Approx. 100 μV/m at 260 - 300 kHz Voltage test: AC 90 V to AC 600 V, 50/60

Safety cert.: EN61010/IEC61010 CAT II/300 V, CAT I/600 V Measurement category Pollution Degree

Overall

Protection category 1 x battery 9V, 6LR61 Power supply Dimensions 170 x 40 x 24 mm approx. 100g (incl. batteries) Weight

Ordering Information:

Description Model Article no. LT-10-EUR LT-10-EUR 4386345 LT-10-ANT (Spare part) LT-10-ANT 4357839









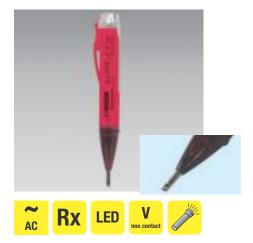






Included:

- 1 x VOLTfix plus
- 2 x battery 1.5 V, IEC LR03
- 1 x user manual



Included:

- 1 x VOITfix drill
- 2 x battery 1.5 V, IEC LR03
- 1 x user manual













Included:

- 1 x MAGNO-VOLTfix
- 2 x battery 1.5 V, IEC LR03
- 1 x user manual

VOLTfix plus

Non-contact volt probe

- Non-contact, optical and acoustic detection of AC voltages
- Fast, accurate detection of cable breaks in open-ended cables, e.g. cable drums or extension cables

Product information

- Reliable, automatic self-test of activated device with optical readiness indicator
- Compact, handy design that fits in any pocket
- Wide range of applications in trade and industry

Device highlight

On/off switch

Technical specifications 1 LED

Display 50...600 V AC Voltage range Frequency range 50...500 Hz On-time constant Pollution degree Measurement category CAT III/600 V

Safety cert.: DIN VDE 0411,EN 61010 2 x battery 1.5 V, IEC LR03 Power supply Dimensions 140 x 24 x 20 mm Weight approx. 50 g

Ordering Information:

Description Model Article no. **VOLTfix** plus 2052-D*

3454347

VOLTfix Drill

Non-contact voltage probe with screwdriver insert

- · Non-contact, optical and acoustic detection of AC voltages
- Direct voltage test via screwdriver blade
- Continuity test
- Fast, accurate detection of cable breaks in open-ended cables, e.g. cable drums, extension

Product information

- Reliable, automatic self-test of activated device with optical readiness indicator
- Compact, handy design that fits in any pocket

Device highlight

- Integrated, ultra-bright flashlight
- Fixed, high-quality screwdriver insert (chrome, vanadium, molybdenum blade)

Technical specifications

2 LEDs Display 50...600 V AC Voltage range/

Frequency

50...500 Hz Voltage Continuity test $0...3 M\Omega$ Test current approx. 0.3 µA On-time constant Pollution degree Measurement category CAT III/600 V

Safety cert.: DIN VDE 0411, EN 61010 Power supply 2 x battery 1.5 V, IEC LR03 Dimensions 160 x 25 x 21 mm Weight approx. 55 q

Ordering Information:

Description Model Article no. 3454358 **VOLTfix drill** 2054-D*

MAGNO-VOLTfix

Non-contact voltage probe with magnetic field detection

Functions

- Non-contact, optical and acoustic detection of AC voltages
- Fast, accurate detection of cable breaks in open-ended cables, e.g. cable drums, extension
- Optical signal for detection of magnetic fields, e.g. on magnetic coils or permanent magnets

Product information

- Compact, handy design that fits in any pocket
- Wide range of applications in trade and industry

Technical specifications

Display 2 LEDs 50...600 V AC Voltage range/

Frequency

50...500 Hz Voltage On-time constant Pollution degree Measurement category CAT III/600 V

DIN VDE 0411, EN 61010 Safety cert.: 2 x battery 1.5 V, IEC LR03 Power supply Dimensions 140 x 24 x 20 mm Weight approx. 50 g

Ordering Information:

Article no. Description

MAGNO-VOLTfix 2050-D* 3454335

^{*} Packing unit of 10 items (also available individually)

Continuity testers/battery testers







Included:

- 1 x TESTFIX without batteries
- 1 x spare lamp
- 1 x carrying case
- 2 x uninsulated crocodile clips
- 1 x user manual





Included:

- 1 x Ohmtest
- 1 x battery 9 V, IEC 6LR61
- 1 x crocodile clip
- 2 x probes
- 1 x user manual



Included:

1 x user manual

1 x BAT-250-EUR

TESTFIX

Continuity and circuit tester with flashlight function

- Acoustic continuity tester (summer)
- Optical continuity display (lamp)

Product information

- Low-resistance continuity tester
- For testing light bulbs, fuses, etc.
- Test wiring and grid networks

Product highlights

• Flashlight function with continuous light

Technical specifications

 $0...10 \Omega$ (optical), Continuity test 0...100 Ω (acoustic) Test current approx. 200 mA (optical)

Approx. 40 mA (acoustic) Test voltage < 4.5 V

Power supply 3 x battery 1.5 V, IEC LR6 Dimensions 130 x 75 x 35 mm approx. 180 g Weight

Ordering Information:

Description Model Article no. 2147430

* Packing unit of 10 items (also available individually)

Ohmtest

Continuity tester

Functions

- Continuity tester with buzzer
- Optical continuity display
- External voltage display >50 V

Product information

• Range of applications: Resistance, semi-conductor, and polarity testing, light-bulbs, fuse, etc.

Device highlight

Voltage-proof up to 600 V

Technical specifications

0...500 kΩ Continuity test Test current approx. 5 µA Test voltage < 9 V

External voltage

indicator 50....600 V Protection category IP 40

1 x battery 9 V, IEC 6LR61 Power supply Dimensions 110 x 58 x 24 mm Weight approx. 150 g



Accessories:

Carrying case Model 1150

Ordering Information:

Description Model Article no. 3454373 Ohmtest 9072-D* Carrying case 1150 2145755

BAT-250-EUR

Battery tester

Functions

- Test standard and rechargeable batteries
- Direct display of state of charge
- Analog display with colored areas

Product information

- Testing of Mignon (AA), Micro (AAA), Baby (C), and Mono (D) battery types
- Testing of 1.5 V button cells
- Testing of 9 V block batteries

Product highlights

- Ergonomic design, sliding contact for one-handed operation
- V-shaped battery holder on the side
- High-quality connections for 9 V block batteries
- No batteries required to operate

Technical specifications

Display Analog display with colored

areas

Replace (REPLACE), Low (LOW),

Good (GOOD) 1.5 V: 375 mA, 9 V: 40 mA (at

Test current (typical) limit of measurement range)

1.5 V: 4 Ω, 9 V: 215 Ω

Nominal load (typical) 9 V block battery, Micro (AAA), Battery types

Mignon (AA), Baby (C), Mono (D) and 1.5 V button cells

approx. 110 x 74 x 29 mm Dimensions

approx. 50 g Weight

Ordering Information:

Description Model Article no.

BAT-250-EUR BAT-250-EUR 4620297

^{*} Packing unit of 10 items (also available individually)









Included:

- 1 x PRM-5-EUR
- 3 x probes
- 1 x crocodile clip
- 1 x carrying case
- 1 x user manual

Accessories

1324 Unidreh accessory set allows a perfect and easy connection to CEE 16 A and CEE 32 A sockets, safety cert.: CAT II, 1000 V











Included:

- 1 x PRM-6-FUR
- 2 x batteries 1.5 V, IEC LR 03
- 3 x test leads
- 3 x probes
- 3 x crocodile clips
- 1 x carrying case
- 1 x user manual

PRM-5-EUR

Phase Rotation Tester

- Phase sequence display with LEDs
- Display of a missing or incorrectly connected outer conductor

Product information

- Fast detection of phase sequence in three-phase
- Voltage range from 100 to 700 V, Frequency range 16 to 400 Hz

Product highlights

- No battery needed
- Robust housing with rubber protective cover
- Securely connected test leads Measurement category CAT IV, 600 V



Accessories:

Unidreh accessory set Model 1324



Carrying case Model 1150



Crocodile clips for conductor rails Model 391511 (red) Model 391512 (black)

Crocodile clip for conductor rail 2146861 391511 Black 391512 2146877

Technical specifications

Measurement category CAT IV / 600 V

Ordering Information:

UNIdreh accessory set

Display

Voltage range

Test current

Safety cert

Power supply

Description

PRM-5-EUR

Carrying case

Dimensions

Weight

Frequency range

LED for anticlockwise, clock-

DIN VDE 0411/EN 61010-1/

DIN VDE 0413-7, EN 61557-7

wise, faulty connection

100 ... 700 V

16 ... 400 Hz

from test object

approx. 253 g

137 x 65 x 33 mm

Model

1324

1150

PRM-5-EUR

Article no.

4375961

2146183

2145755

≤3,5 mA

PRM-6-EUR

Motor and Phase Rotation Tester

- Phase sequence display with LCD
- Display of a missing or incorrectly connected outer conductor
- Non-contact motor rotation indicator when the motor is running
- · De-energised identification of motor connections (U, V, W) via a manual drive

Product information

- Fast detection of phase sequence in three-phase supply
- Voltage range from 40 to 700 V, Frequency range 16 to 400 Hz

Product highlights

- Robust housing with rubber protective cover
- Detachable test leads
- Measurement category CAT IV, 600 V
- Back light
- Testing rotary field direction possible without batteries, or with empty batteries

Technical specifications

Display Phase sequence LCD

indication 40...700 V / 16....60 Hz 50...700 V / 60....400 Hz

Non-Contact Motor rotation

indicator

16....400 Hz Detection of

motor connections >0.65 V / 2....100 Hz

Test current

≤3,5 mA DIN VDE 0411/EN 61010-1/ Safety cert DIN VDE 0413-7, EN 61557-7

Measurement category CAT IV / 600 V 2x batteries 1.5 V, IEC LR 03 (AAA),

Power supply Micro

Dimensions 137 x 65 x 33 mm Weight approx. 170 g



Accessories:

Unidreh accessory set Model 1324



Carrying case Model 1150



Crocodile clips for conductor rails Model 391511 (red) Model 391512 (black)



TL-PRM-6 test lead set for PRM-6-EUR Model TL-PRM-6

Ordering Informatio	on:	
Description	Model	Article no.
PRM-6-EUR	PRM-6-EUR	4633222
UNIdreh accessory set	1324	2146183
Carrying case	1150	2145755
Crocodile clip for conduc	ctor rail	
Red	391511	2146861
Black	391512	2146877
TL-PRM-6 test lead set for	or PRM-6-EUR	
(Spare part)	TL-PRM-6	4692870

Measuring solar radiation



SOLAR-100

Symbols used in this chapter



Fast measurement



Measurement Memory



Min/MAX memory



SOLAR-100

Solar Power Meter

- Measuring solar radiation
- Establishing light transparency of windows and panes (g-factor)

Product information

- Display switchable between W/m² or BTU / (ft² x h)
- Manual range selection
- Integrated measurement memory (data hold)
- MAX/MIN function
- Manual zero adjustment

Technical specifications

Display LCD, 3 1/2 digit, 1999 digits 0...200, 2000 W/m², 0...634 BTU / (ft² x h) Measurement ranges 0.1, 1 W/m²; 0.1, 1 BTU Resolution ±10W/m² (±3 BTU) or Accuracy

+5 %

1 x battery 9 V, IEC 6F22 130 x 63 x 38 mm (unit) 80 x 55 x 29 mm (sensor) approx. 230 g Power supply Dimensions Weight



1 x SOLAR-100

1 x battery 9 V, IEC 6F22

1 x carrying case

1 x user manual

Ordering Information:

Description Model Article no.

SOLAR-100 SOLAR-100 3474979

Locating and measuring wires/cables



Cable locators are useful for tracing and finding wires and cables.

This means that sockets and fuses can be assigned to circuits, hidden sockets and junction boxes in walls, floors, and ceilings can be traced, and interruptions in cables and short circuits can be located.

- Targeted locating of cables in walls, as well as interruptions and short circuits in cables
- Locating of fuses/machines and assignment to circuits
- Locating of accidentally concealed sockets and distribution boxes
- Locating of interruptions and short circuits in unshielded underfloor heating
- Tracing wires in ceilings and walls
- Tracing cables in soil

Interesting facts

Cable locators 18

Products

Cable locators 20



AT-7000-EUR Features and Functions



Trace energised or de-energised wires by removing the junction box cover.

Trace Wires Inside Conduit

Detect and trace energised and de-energised wires that are surrounded by metal conduits by removing the cover off the junction box and using the sensor tip of the AT-7000-RE receiver to identify the exact wire that transmits the signal generated by the AT-7000-TE transmitter. Wires in non-metal conduits can be traced directly without opening the junction box and using the AT-7000-RE Receiver's Smart SensorTM.



Induce signal with the current clamp when there is no bare conductor.

Find energised wires without direct connection to wires, signal feed via current clamp

The SC-7000-EUR current clamp accessory can be used with the AT-7000-TE transmitter to induce a signal into energised and de-energised wires when direct access to the wires is neither possible, nor desired. Simply clamp around the desired wire to induce the signal, then begin tracing.



Use the Tip Sensor to trace wires in hard to reach areas.

Use the Tip Sensor to trace wires in hard to reach areas

When used with the AT-7000-TE transmitter, the tip sensor pinpoints the location of energised and de-energised wires in tight, hard to reach spaces. It easily and accurately traces the targeted energised and de-energised wires in junction boxes, corners, walls, floors and ceilings to a depth of up to approx. 6 meters (20 feet).



Non-contact voltage (NCV) detection.

Non-contact voltage (NCV) detection

The NCV feature extends functionality of the AT-7000-RE receiver by detecting energised wires from 90 to 600 V and 40 to 400 Hz without the use of the AT-7000-TE transmitter. Its adjustable sensitivity fits a range of applications, from detecting presence of voltage (higher sensitivity) to precisely pinpointing a hot wire in a bundle (lower sensitivity).

Cable locator AT-7000-EUR





Transmitter

Receiver

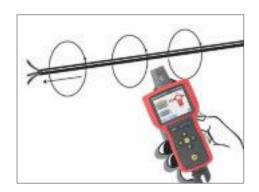
Theoretical operating principle

The cable locator consists of a transmitter and the receiver.

The signal generated by the transmitter consists of a modulated current, which generates an electromagnetic field around a conductor.

This electromagnetic field, that is set up around the conductor, induces a current in the nozzles on the receiver. The induced current is amplified by the receiver, decoded, converted into the original signal, and then appears in the display.

The transmitter must always be connected for such an application such that a closed circuit is the result.



Types of application

1. Single-pole application: connection of the transmitter to only one conductor

The receiver is powered by the built-in battery (rechargeable) in this operating mode. As the signal generated by the transmitter is of high-frequency origin, then only a single conductor can be searched or traced.

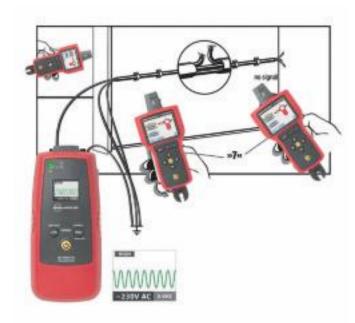
The second conductor replaces earth. In this arrangement a high-frequency current flows through the conductor via the air and back to earth in a similar manner as with a radio transmitter and radio receiver.

2. Double-pole application: connection of transmitter to the

The transmitter is powered by the grid. In such a case the modulation current flows from the transmitter, for example in the phase, to the transformer and then back to the transmitter via the neutral conductor.

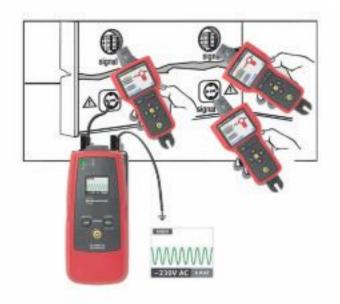
A further opportunity is available for de-energised systems, where the transmitter is connected to the start of two cables and then the ends of the cables are short-circuited. This also results in a closed circuit. The transmitter is then powered by the built-in battery. The cable locator can only locate cables that are correctly connected in accordance with physical principles.





Locating interruptions in cables (single-pole application)

The signal is transmitted to the wire that is suspected to be interrupted. The other wires are connected with the ground jack on the transmitter, and with an earth. The signal is traced with the receiver. The signal breaks off at the point where the interruption takes place.



In closed circuits (double-pole application)

Closed circuits are suitable, for example, for locating sockets, switches, fuses, etc. in domestic installations that are energised. This application is possible either when de-energised, or energised (from 90 - 270 V). The tracing depth is approximately 0...10 cm.

Tracing fuses









AT-7000-EUR series

Multi-function wire tracer

- Targeted locating of cables in walls, as well as interruptions and short circuits in cables
- Locating fuses/machines and assignment to circuits
- Locating accidentally concealed sockets and distribution boxes
- · Locating interruptions and short circuits in unshielded underfloor heating
- Tracing metallic water and heating pipes

Product information

- Set consisting of transmitter and receiver in a stable, shock-proof case
- Display of sender signal
- Clear, easy-to-follow instruction manual with application examples

Product highlights

- All application areas (live or de-energised) are covered without the need for additional devices
- Receiver with high-resolution 8.9 cm (3.5") TFT-LCD color screen
- Display of position and direction of wire on LC screen
- Receiver with two antennas "Smart Sensor™" and "Tip Sensor"
- Transmitter with two switchable transmission frequencies (6 kHz and 33kHz)
- Connection for optional current clamp to feed in a signal without direct connection to the wire.

Technical specifications

Display TFT-LCD color screen, 8.9 cm

(3.5"), 70 x 53 mm with backlit display 320 x 240 pixels Measurement frequencies energised: 6.25 kHz

De-Energised: 32.768 kHz

approx. 5 cm ... approx. 1.5 m

Tracing depth

Resolution

Smart sensor Tip sensor,

energised approx. 5 cm ... approx. 6.7 m Tip sensor, de-energised approx. 5 cm ... approx. 4.3 m

Non-Contact Voltage test

approx. 5 cm ... approx. 1.2 m

Non-contact voltage detection (NCV) Safety cert

approx. 90 ... 600 V AC DIN VDE 0411/EN 61010-1

CAT IV / 600 V Measurement category Power supply 4x batteries 1.5 V, IEC LR 06 (AA),

Mignon

Energy intake 2 W

Dimensions 280 x 113 x 65 mm Weight approx. 540 g

Transmitter AT-7000-TE

Display TFT-LCD, 4.5 cm (1.77"), 28 x 35 mm with backlit display

128 x 160 pixels Resolution Measurement frequencies energised 6.25 kHz

de-energised 32.768 kHz 9 ... 300 V AC/DC 0 ... 400 Hz Voltage measurement DIN VDE 0411/EN 61010-1 Safety cert

Measurement category CAT IV / 300 V 6x batteries 1.5 V, IEC LR 06 (AA), Power supply

Energy consumption 2 W

216 x 100 x 56 mm Dimensions Weight approx. 590 g



AT-7020-EUR

AT-7000-RE Receiver Transmitter AT-7000-TE 3 test leads

2 x crocodile clips

2 x probes

10x batteries 1.5 V, IEC LR 06 (AA), Mignon

1 x carry case

1 x user manual



AT-7030-EUR

AT-7000-RE Receiver Transmitter AT-7000-TE SC-7000-EUR Current clamp BR-7000-T power pack Hanging strap HS-1 3 test leads 2 x crocodile clips

1 x user manual











2 x probes

10x batteries 1.5 V, IEC LR 06 (AA), Mignon 1 x carry case

Accessories:

- 1. Current clamp SC-7000-EUR
- 2. Hanging strap for transmitter
- 3. Power pack for transmitter BR-7000-T
- 4. Battery charger BR-7000-C
- 5. Test leads 25 m TL-7000-25M

Ordering Information: Description Model Article no. AT-7020-EUR AT-7020-EUR 4542794 AT-7030-EUR AT-7030-EUR 4542782 AT-7000-RE 4542802 Receiver Transmitter AT-7000-TF 4542816

Recommended Accessories

Power pack for transmitter

Current clamp SC-7000-EUR 4542825 Hanging strap for transmitter HS-1 4594135

BR-7000-T

4467296

Battery charger BR-7000-C 4544583 Test lead 25 m TL-7000-25M 4634011







Included:

- 1 x cable locator receiver
- 1 x cable locator transmitter, code "F"
- 4 x test leads
- 3 x battery 9 V, IEC 6LR61
- 2 x crocodile clips
- 2 x probes
- 1 x carry case
- 1 x user manual

Cable Locator Set for live and de-energised circuits

- Targeted locating of cables in walls, as well as interruptions and short circuits in cables
- Locating of fuses and assignment to circuits
- Locating of accidentally concealed sockets and distribution boxes
- Locating of interruptions and short circuits in unshielded underfloor heating
- Tracing of metallic water and heating pipes

Product information

- Set consisting of transmitter and receiver in a robust, shock-proof case
- Transmitter signal is indicated optically and acoustically
- Clear, easy-to-follow instruction manual with application examples

Product highlights

- All application areas (live or de-energised) are covered without the need for additional devices
- Accurate locating by means of displaying a specified letter on the receiver

Technical specifications

LED bar for intensity and Display

7-segment display on receiver for number or letter indicating the

transmitter code

Tracing depth 0...40 cm Withstand voltage 250 V Measurement category CAT II/250 V

Pollution degree

Safety cert.: EN 61010-1/IEC 61010 Power supply 1 x battery 9 V, IEC 6LR61

(receiver)

2 x battery 9 V, IEC 6LR61

(transmitter)

Dimensions 380 x 305 x 90 mm (case)

Weight approx. 1.8 kg

Ordering Information:

Description Model Article no.

Cable locator set

Tracing depth

2032-D 3454320 in case



Included:

- 1 x fuse finder transmitter
- 1 x fuse finder receiver
- 1 x battery 9 V, IEC 6LR61
- 1 x carry case
- 1 x user manual

ECB50A

Fuse finder for live circuits

Functions

- · Fast and accurate locating of fuses and assignment to circuits
- Locating and tracing of cables beneath plaster

Product information

- Set consisting of transmitter and receiver in a robust carry case
- Transmitter signal is indicated optically and acoustically on the receiver
- Transmitter with built-in Schuko plug for simple contacting with the Schuko or UK socket
- Simple switching between fuse and cable search function
- Continuous sensitivity adjustment of receiver
- Coded signal enables precise identification from the receiver
- * This product is not available in Switzerland
- * For UK: circuit breaker finder ECB50A-E available with UK plug
- * For EUR (except UK): ECB50A-FGIS with Schuko plug

Technical specifications

Receiver display 2 LEDs and 7-segment display for letters for displaying the code

from the transmitter Function fuse 0...10 cm Function wire 0...40 cm

100...250 V AC (50...60 Hz) Voltage range

Measurement category CAT III/300 V

Pollution degree

EN 61010-1/IEC 61010 Safety cert.: Power supply 1 x battery 9 V, IEC 6LR61

(receiver) network supply (transmitter) 180 x 120 x 45 mm (case)

Dimensions Weight approx. 250 g (set)

Ordering Information: Description Model Article no.

ECB50A-E ECB50A-E 3027097 ECB50A-FGIS ECB50A-FGIS 3027106

AT-3500

Underground cable locator

With the AT-3500 cable locator you can ensure that productivity remains high, whilst costs remain low. AT-3500 is a robust, cost-effective solution for locating live and de-energised wires, cables and pipes in soil.

The cable locator is, for example, suitable for car park and airport lighting, and shows the location of cables and pipes immediately on a digital, backlit multisegment display, complete with acoustic indicators.

The AT-3500 cable locator functions at the frequency of 33 kHz, which is proven for the majority of tracing applications. In order to avoid wires on construction sites, the device also provides a highly-sensitive current mode and a radio mode. Depth measurements can be carried out by pressing the button.







AT-3500

Underground Cable / Pipe Locator System

Functions

- Locating and tracing cables and pipes in the ground
- Simplified tracing function enables location of cable or pipe damage
- Determining the location, depth, and alignment of metal cables
- Optical and acoustic display

Product information

- Set consists of transmitter, receiver, and measuring accessories
- Various measurement functions allow for high levels of accuracy:
- Passive via network frequency
- Passive via radio signals
- Active via signal generator
- Transmitter with voltage-proof output
- Comprehensive range of accessories available

Product highlights

- Large display with simple menu navigation and back light
- Robust construction for use in inclement weather and harsh environments

Technical specifications

Transmitter T-3500

Transmission power 0.1 W/0.5 W (switchable)

Frequency 32.768 kHz
Power supply 6 x battery, IEC LR20 / D / Mono

Operating time approx. 40 hours

(for operation with interruptions and with alkali batteries at 20 °C)

Protection category IP 56

Dimensions 260 x 255 x 140 mm Weight 1.7 kg (2.65 lb)

Receiver R-3500

Dimensions

SC-3500

Connection

Weight

Frequency ranges Range 1: Radio 15 kHz to 23 kHz;

Range 2: Power grid 50 / 60 Hz; Range 3: Transmitter 32.768 kHz

Sensitivity Range 1: Radio $> 20 \mu A$; Area 2: Power grid > 7 mA; Range

3: Transmitter > 5 μA 0.1 m ... 5 m

Depth range 0.1 m ... 5 r Resolution 0.1 m

Power supply 10 x battery 1.5 V, IEC LR6 / AA /

Mignon

Operating time approx. 40 hours

(for operation with interruptions and with alkali batteries at 20 °C)

Protection category IP 67 from the lower edge of the

receiver to the lower edge of the battery compartment, and IP 56 for all parts for which this description is not relevant approx. 99 x 660 x 252 mm

Weight approx. 2.5 kg

Included:

- 1 x R-3500 receiver
- 1 x T-3500 transmitter
- 1 x user manual
- 2 x test leads 2 x crocodile clips
- 1 x earth spike

10 x battery 1.5 V, IEC LR6 / AA / Mignon

6 x battery 1.5 V, IEC LR20/D/Mono

1 x robust carry case



Accessories:

MLS55-3,

Pipe transmitter for AT-3500 order no. MLS55-3



SC-3500, Current clamp for AT-3500 order no. SC-3500

Ordering Information: Description Model Article no. AT-3500 AT-3500 3435058 MLS55-3 MLS55-3 3435099

SC-3500

3435073

LAN-1

LAN Cable Tester

Functions

- Testing wiring faults of LAN cables
- Detection of cable breaks, short circuits, reversed and split pairs
- Check of shielding

Product information

- Test pin configuration for:
- 10/100 base
- 10 base-2 cables
- RJ45 cables - AT&T 258A cables
- EIA / TIA 568A/568B cables
- Token ring cables
- Testing installed cable on wall plate or the patch panels by using an external coding plug
- Testing a cable loop or remote testing with a coding plug
- Acoustic error display

Product highlights

- Automatic and manual test procedure
- Recognition of split pairs

Technical specifications

Display 2x 9 LED segments for

cable occupation green output,

red input RJ45 and BNC

Max. cable length >300 m Power supply battery 1 x 9 V, IEC 6F22 Dimensions 130 x 56 x 38 mm

approx. 600 g

Ordering Information:

Description Model Article no.
LAN-1 LAN-1 3052401



Included:

- 1 x LAN-1
- 1 x remote coding plug
- 1 x battery 9 V, IEC 6F22
- 2 x adapter RJ45/BNC 1 x adapter RJ45/RJ45
- 2 x adapter BNC/BNC 1 x carrying case
- 1 x user manual

Digital multimeters



Multimeters are measuring devices that can measure many variables. Our product portfolio ranges from compact multimeters for simple applications (e.g. troubleshooting) up to multimeters for more demanding situations such as in development or within industry, with a variety of functions and measurement options. This means that regardless of the application, we have the right multimeter offering excellent value for money.

Products

Full overview	25
LCR meters	27
AM-500-EUR series	28
Hexagon series	29
PM series	30
HD series	31
transfer and and bite	22

- +p	Battery test	Back light
°C]	Temperature measurement	Diode test and Continuity beeper
Hz	Frequency verification Data Hold	Measurement Memory
-	Capacitance measurement CAT IV 600 V	Measurement Category
PC	PC interface True RMS	True PC measurement
Bargraph	Digital bar graph display	Min/Max Hold



ts F	Model	AM-500-EUR	Hexagon 110	Hexagon 120	Hexagon 340	37 XR-A	38 XR-A
1, 2, 4, 4, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10							
Sylidight, 1999 digits 3% digit, 4000 digits AC Ac 1 mV 600 V 0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 1000 V 0.01 mV 1000 V Ac 1 mV 600 V 0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 1000 V 0.01 mV 1000 V Port 1 mV 600 V 0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 1000 V 0.01 mV 1000 V Ac 0.1 mV 1000 V 0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 1000 V 0.01 mV 1000 V Ac 0.1 mV 1000 V 0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 1000 V 0.01 mV 1000 V Ac 0.1 mV 1000 V 0.1 mV 1000 V 0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 1000 V Ac 0.1 mV 1000 V 0.1 mV 1000 V 0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 1000 V Ac 0.1 mV 1000 V Ca 0.1 mV 1000 V 0.1 mV 1000 V </th <th></th> <th></th> <th></th> <th></th> <th>Man Harris</th> <th></th> <th></th>					Man Harris		
Ac AC ph AC cumor* (1.0% + 3D) (1.5% + 5D) (0.1 mV 1000 V 0.1 mV 1000 V 0.01 mV 100 V 0.02 mV 100 V 0	Display Digits	31/, digit, 1999 digits	3¾ digit, 4000 digits	3¾ digit, 4000 digits	34 digit, 5000 digits	4 digit, 9999 digits	4 digit, 9999 digits
Comparison Com	True-RMS measurement				AC	AC	AC+DC
Continuity test Continuity	Bar graph				•	•	•
Max Hold	Ranges						
1,0% + 3D (1,5% + 5D (1,5% + 5D (1,5% + 5D (1,5% + 3D (1,5% + 3D (1,5% + 3D (1,5% + 5D (1,5% + 5D (1,5% + 3D (1,5% + 4D (1,5%	Voltage AC	1 mV 600 V	0.1 mV 1000 V	0.1 mV 1000 V	0.01 mV 1000 V	0.1 mV 750 V	0.1 mV 750 V
ορς 45400 Hz 50500 Hz 50500 Hz 40. Hz20 kHz Dec 1 mW 600 V 0.1 mW 1000 V 0.1 mW 1000 V 0.1 mW 1000 V curracy* 0.1 mW 43D 0.1 mW 1000 V 0.1 mW 1000 V 0.1 mW 1000 V Ac 0.1 μw 0.4 0.1 μw 0.4 0.1 μw 0.4 0.1 μw 1000 V 0.1 μw 1000 V Ac 0.1 μw 0.4 0.1 μw 1000 V 0.1 μw 1000 V 0.1 μw 1000 V 0.1 μw 1000 V curracy* 0.1 μw 1000 V curracy* 0.1 μw 1000 V 0.1 μw 100	Basic Accuracy*	(1.0% + 3D)	(1.5% + 5D)	(1.5% + 5D)	(0.5% + 3D)	(1.2% + 10D)	(1.2% + 10D)
DC 1 mW 600 V 0.1 mW 1000 V <th< th=""><th>Frequency</th><th>45400 Hz</th><th>50500 Hz</th><th>50500 Hz</th><th>40 Hz20 kHz</th><th>45 Hz2 kHz</th><th>45 Hz2 kHz</th></th<>	Frequency	45400 Hz	50500 Hz	50500 Hz	40 Hz20 kHz	45 Hz2 kHz	45 Hz2 kHz
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corraco** (1.5% + 3D) (1.5% + 4D) (1.5% + 4D) (0.6% + 3D) cop 45400Hz 50 Hz500Hz 50500 Hz 40 Hz1 kHz DC 0.1 µA10A 0.1 µA10A 0.1 µA10A 0.1 µA10A cere 1020 MΩ (1.2% + 3D) (1.2% + 3D) (0.2% + 4D) cere 1020 MΩ 0.1040 MΩ 0.1040 MΩ 0.01 nE3909 µA cere 1020 MΩ 0.1040 MΩ 0.1040 MΩ 0.01 nE3909 µA arce 0.01 nE3000 µF 0.01 nE3900 µA 0.01 nE3909 µA rece 0.01 nE3000 µF 0.01 nE3900 µA 0.01 nE3909 µA rece 0.01 nE3000 µF 0.01 nE3900 µA 0.01 nE3909 µA rece 0.01 nE3000 µF 0.10 nE3900 µA 0.10 nE3900 µA rece 0.01 nE3000 µF 0.01 nE300 µC 0.01 nE3900 µC 0.01 nE3900 µC rece 0.01 nE3000 µF 0.01 nE300 µC 0.01 nE300 µC 0.01 nE300 µC 0.01 nE300 µC rece 0.01 nE3000 µC 0.01 nE300 µC	Current AC	0.1 µА10 А	0.1 µA10 A (20A for 30 s)	0.1 µA10 A (20A for 30 s)	0.1 µA10 A (20A for 30 s)	0.01 µА 10 А	0.01 µA 10 A
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DC 0.1 July 10 A <	Frequency	45400 Hz	50 Hz500 Hz	50500 Hz	40 Hz1 kHz	45 Hz1 kHz	45 Hz1 kHz
curacy** (1.2% + 3D) (1.2% + 3D) (1.2% + 3D) (0.2% + 4D) ree 1020 MD 0.1040 MD 0.1040 MD 0.01050 MD and continuity test • • • • sture 0.01 nF3000 µF 0.01 nF3000 µF 0.01 nF3999 µA redection • 1.2. MMz 5 Hz1 MHz 5 Hz1 MHz 5 Hz100 °C redection • • • • • idd • Max Hold Max Hold • idd • • • • iger/interface • • • • iger/interface • • • • include • • • include • • • include • •	Current DC	0.1 µА10 А	0.1 µA10 A (20A for 30 s)	0.1 µA10 A (20A for 30 s)	0.1 μA10 A (20A for 30 s)	0.01 µА 10 А	0.01 µA 10 A
ree 1Ω20 MΩ 0.1Ω40 MΩ 0.1Ω40 MΩ 0.1Ω40 MΩ 0.010 InF9999 μA ance • 0.01 InF3000 μF 0.01 InF3000 μF 0.01 InF9999 μA sture 5 Hz1 MHz 5 Hz1 Mz 6 Hz1 Mz <th>Basic Accuracy*</th> <th>(1.2% + 3D)</th> <th>(1.2% + 3D)</th> <th>(1.2% + 3D)</th> <th>(0.2% + 4D)</th> <th>(0.5% + 10D)</th> <th>(0.5% + 10D)</th>	Basic Accuracy*	(1.2% + 3D)	(1.2% + 3D)	(1.2% + 3D)	(0.2% + 4D)	(0.5% + 10D)	(0.5% + 10D)
nd continuity test •	Resistance	1Ω20 MΩ	0.1Ω40 MΩ	0.1Ω40 MΩ	0.01Ω50 MΩ	0.1Ω40 MΩ	0.1Ω40 MΩ
reget 0.01 nF3000 μF 0.01 nF3000 μF 0.01 nF3000 μF 0.01 nF999 μA reget 5 Hz1 MHz 5 Hz1 MHz 5 Hz1 MHz 5 Hz125 kHz relection • -20+300 °C -50+1000 °C tic • -50+1000 °C id • -50+1000 °C wave off Max Hold Max Hold - ind • - id • • systement Category T x 9 V 2 x 1.5 V 2 x 1.5 V sment Category CAT III/600 V CAT III/1000 V CAT III/1000 V CAT III/1000 V s Battery test, incorrect jack connection incorrect Jack Till/Indoov CAT III/1000 V	Diode and continuity test	•	•	•	•	•	•
cog 5 Hz1 MHz 5 Hz1 MHz 5 Hz125 kHz sture	Capacitance		0.01 nF3000 µF	0.01 nF 3000 µF	0.01 nF 9999 µA	0.01 nF 400.0 µF	0.01 nF 400.0 µF
election -20+300 °C -50+1000 °C relection • -50+1000 °C tic • • • ild • • • ind • • • gger/interface • • • wer Off • • • incorrect • • • specificated • • • incorrect jack connection CAT III/600 V, CAT III/1000 V	Frequency		5 Hz1 MHz	5 Hz1 MHz	5 Hz125 kHz	3.00Hz10MHz	3.00Hz10MHz
relection • • did • • x value memory Max Hold Max Hold ind • • x value memory Max Hold • ind • • yger/interface • • wer Off • • wer Off 1 x 9 V 2 x 1.5 V cAT III/600 V CAT III/600 V CAT III/1000 V cAT III/600 V CAT III/1000 V CAT III/1000 V sattery test, Acoustic warning signal for incorrect Jack connection and adjustment without opening the device Software optionally available	Temperature			-20+300 °C	-50+1000 °C		-20+1300°C
tic •	Range selection						
Max Hold	Automatic	•			•	•	•
Idd Max Hold Max Hold • • Incorrect jack connection Max Hold • • Incorrect jack connection Max Hold • • Incorrect jack connection • • • Sper/Interface • • • Incorrect jack connection • • • Incorrect jack connection Acoustic warning signal for incorrect jack connection incorrect jack solutionally available solutionally available solutionally available solution.	Manual	•			•	•	•
x value memory Max Hold Max Hold • • ind • • • • • gger/interface • <th>Data Hold</th> <th>•</th> <th></th> <th></th> <th>•</th> <th>•</th> <th>•</th>	Data Hold	•			•	•	•
Particle	Min/max value memory		Max Hold	Max Hold	•	•	•
measurement • • - / RS-232 wer Off • - / RS-232 wer Off • • - / RS-232 ment Category CAT III/600 V CAT III/600 V, CAT III/600 V, CAT III/600 V, CAT III/1000 V CAT III/1000 V s Battery test, CAT III/600 V Acoustic warning signal for incorrect Jack connection incorrect Jack connect	Peak Hold				•	•	•
wer Off • -/ R5-232 wer Off • • -/ R5-232 sment Category CAT III/600 V CAT III/600 V, CAT III/1000 V CAT III/600 V, CAT III/1000 V CAT	Relative measurement		•	•	•	•	•
wer Off • • 1 x 9 V 2 x 1.5 V 2 x 1.5 V 1 x 9 V Immediate (account category) CAT III/600 V, CAT III/1000	Data logger/interface				- / RS-232	- / RS-232	- / RS-232
1 x 9 V 2 x 1.5 V 2 x 1.5 V 1 x 9 V	Auto Power Off		•	•	•	•	•
ment Category CAT III/600 V CAT III/600 V CAT III/600 V, CAT III/1000 V CAT III/1000 V CAT III/1000 V Battery test, Acoustic warning signal for incorrect Jack connection 1.5 V/9 V Acoustic warning signal for incorrect Jack connection incorrect Jack connection incorrect Jack connection and adjustment without opening the device software optionally available	Battery	1 x 9 V	2 x 1.5 V	2 x 1.5 V	1×9V	1×9V	1×9V
Battery test, Acoustic warning signal for R5-232 interface Inductance measurement incorrect jack connection incorrect Jack connection incorrect jack connection incl. temperature probe Calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment tase of incorrect jack connection incl. temperature probe calibration and adjustment tase of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration and adjustment case of incorrect jack connection incl. temperature probe calibration incl. temperature problem incl. temperature	Measurement Category	CAT III/600 V	CAT III/600V, CAT II/1000 V	CAT II/600 V, CAT II/1000 V	CAT III/1000 V, CAT III/1000 V	CAT III/600V, CAT II/1000V	CAT III/600V, CAT II/1000V
السمهانحيات	Features	Battery test, 1.5 V/g V	Acoustic warning signal for incorrect jack connection	Acoustic warning signal for incorrect Jack connection ind. temperature probe	RS-232 interface Illuminated display Calibration and adjustment without opening the device Software optionally available	Inductance measurement Acoustic warning signal in case of incorrect jack connec- tion logic test Magnetic hanger (MagneGrip TM)	Current loop measurement (420mA) Software optionally available Magnetic hanger (MagneGrip ^m)

^{* =} Basic accuracy figures are with regard to the best level of accuracy of the relevant measurement function

Model	HD 110C	HD 160C	AM-510-EUR	AM-520-EUR	AM-530-EUR	AM-540-EUR	AM-550-EUR
	EIC!						IIO:
Display Digits	4 digit, 9999 digits	4 digit, 9999 digits	3¾ digit, 3999 digits	3¾ digit, 3999 digits	3¾ digit, 3999 digits	3% digit, 5999 digits	3¾ digit, 5999 digits
True-RMS measurement		AC			AC		AC
Bar graph			•	•		•	•
Ranges							
Voltage AC	0.1 mV 1000 V	0.1 mV 1000 V	0.1 mV600V	400 mV750V	400 mV750V	1 mV1000 V	1 mV1000 V
Basic Accuracy*	(1.2 % + 10 D)	(1.2 % + 10 D)	(1.0 % + 3 D)	(1.0 % + 3 D)	(1.0 % + 3 D)	(1.0 % + 3 D)	(1.0 % + 3 D)
Frequency	45 Hz2 kHz	45 Hz2 kHz	45 Hz 400 Hz	45 Hz400 Hz	45 Hz400 Hz	45 Hz 400 Hz	45 Hz 400 Hz
Voltage DC	0.1 mV 1500 V	0.1 mV 1500 V	1 mV600V	0.1 mV1000 V	0.1 mV1000 V	0.1 mV1000 V	0.1 mV1000 V
Basic Accuracy*	(0.1% + 5 D)	(0.1% + 5D)	(0.8 % + 1 D)	(0.8 % + 1 D)	(0.8 % + 1 D)	(0.5 % + 2 D)	(0.5 % + 2 D)
Current AC	0.01 µA 2 A	0.01 µА 2 А	0.1 µA10 A	0.1 µA10 A	0.1 µA10 A	0.1 µA10 A	0.1 µА10 А
Basic Accuracy*	(0.8 % + 4 D)	(0.8 % + 4 D)	(1.2 % + 2 D)	(1.2 % + 3 D)	(1.2 % + 3 D)	(1.2 % + 5 D)	(1.2 % + 5 D)
Frequency	45 Hz1 kHz	45 Hz1 kHz	45 Hz 400 Hz	45 Hz400 Hz	45 Hz400 Hz	45 Hz400 Hz	45 Hz400 Hz
Current DC	0.01 µA2 A	0.01 µA2 A	0.1 µA10A	0.1 µА10 А	0.1 µA10 A	0.1 µA10 A	0.1 µА10 А
Basic Accuracy*	(1.5% + 10D)	(1.5% + 10D)	(1.0 % + 2 D)	(1.0 % + 2 D)	(1.0 % + 2 D)	(1.0 % + 2 D)	(1.0 % + 2 D)
Resistance	0.1 Ω40 MΩ	0.1 Ω40 MΩ	0.1 Ω40 MΩ	0.1 Ω40 MΩ	0.1 Ω40 MΩ	0.1 Ω60 MΩ	0.1 Ω60 MΩ
Diode and continuity test	•	•	•	•	•	•	•
Capacitance		0.01 nF 400.0 µF	10 рЕ100.0 µF	10 рЕ4000 µF	10 pF4000 µF	60.00 nF60 mF	60.00 nF60 mF
Frequency		0.01 Hz10 MHz	0.01 Hz10 MHz	0.01 Hz10 MHz	0.01 Hz10 MHz	0.01 Hz600.0 kHz	0.01 Hz600.0 kHz
Temperature		-20+1300°C		-40+1000 °C	-40+1000°C	-40+1000 °C	-40+1000 °C
Range selection							
Automatic	•	•	•	•	•	•	•
Manual	•	•	•	•	•	•	•
Data Hold	•	•	•	•	•	•	•
Min/max value memory		•		•	•	•	•
Peak Hold						•	•
Relative measurement	•	•					
Data logger/interface							
Auto Power Off	•	•	•	•	•	•	•
Battery	1 × 9 V	1 x 9 V	1 × 9 V	1 x 9 V	1 × 9 V	1×9 V	1 x 9 V
Measurement Category	CAT IV/1000V	CAT IV/1000V	CAT III/600 V	CAT III/600V, CAT II/1000 V	CAT II/600V, CAT II/1000 V	CAT II/1000 V, CAT III/1000 V	CAT IV/600 V, CAT II/1000 V
Features	Highest levels of safety CAT IV/1000V, Auto Power Off	Highest levels of safety CAT IV/1000V Illuminated display Auto power off	Non-contact voltage detection, battery test, duty cycle function	Non-contact voltage detection, min/max value memory	Non-contact voltage recognition, True RMS measurement (TRMS)	Low pass filter Dual display Duty cycle function Peak value measurement (crest)	Low pass filter True-rms reading Dual display Duty cycle function Peak value measurement (crest)

^{* =} Basic accuracy figures are with regard to the best level of accuracy of the relevant measurement function

LCR meters/multimeters







Data Hold

Included:

- 1 x LCR55A
- 2 x test leads
- 2 x crocodile clips
- 1 x battery 9 V, IEC 6LR61
- 1 x user manual

LCR55A

LCR Meter

Functions

- Measuring resistance
- Capacitance measurement
- Inductance measurement
- Transistor and diode measurement

Product information

- Manual range selection
- Integrated measurement memory (data hold and MAX hold)
- Shock-proof and impact-resistant thanks to standard protective holster
- Auto Power Off

Product highlights

• Large, clear display



Accessories:

Soft Case Model CC-ACDC

Technical specifications

LCD, 31/2 digit, 1999 digits Display Ranges

0,01 Ω ...20 $M\Omega$ Resistance Basic accuracy \pm (0.5% rdg + 5 digits) Continuity $R < 30 \ \Omega$

Inductance 1 μH...200 H Basic accuracy \pm (3.0% rdg. + 20 digits) Capacitance 1 pF...2000 μF Basic accuracy \pm (1.0% rdg. + 3 digits)

Diode test 0...3 V

±(1.5% rdg. +1 digit) Accuracy Transistor test (NPN, PNP) hfe, Iceo Test current: approx. 1 mA Test voltage: 3.0 V DC typical

1 x battery 9 V, IEC 6LR61 Power supply 183 x 79 x 38 mm Dimensions approx. 311 g (incl. battery) Weight

Ordering Information:

Description Article no. Model

LCR55A LCR55A 3026976 CC-ACDC CC-ACDC 2732643













Compact digital multimeter

Functions

- Voltage, current and resistance measurement
- Diode and acoustic continuity test

Device information

- Automatic and manual range selection
- Integrated measurement memory (data hold)
- Shock-proof and impact-resistant thanks to standard protective holster
- µA measurement range
- Auto Power Off

Product highlights

• 1.5 V and 9 V battery test

Technical specifications

LCD, 31/2 digit, 1999 digits Display Ranges

AC voltage

1 mV...600 V \pm (1.0% rdg. + 3 digits) Basic accuracy 45...400 Hz Frequency range

DC voltage 1 mV...600 V Basic accuracy \pm (0.8% rdg. + 3 digits) $10 M\Omega$

Input resistance AC current $0.1~\mu A...10~A$ Basic accuracy $\pm (1.5\% \text{ rdg.} + 3 \text{ digits})$ Frequency range 45...400 Hz

DC current $0.1~\mu A...10~A$ Basic accuracy $\pm (1.2\% \text{ rdg.} + 3 \text{ digits})$ Resistance $1~\Omega...20~M\Omega$

Basic accuracy \pm (1.5% rdg. + 5 digits) Pollution degree

Measurement category CAT III/600V

Safety cert.: DIN VDE 0411, EN 61010,

IEC 61010 2 x 1.5 V, LR3 Power supply 150 x 83 x 40 mm

Dimensions 290 g (incl. battery) Weight

Included:

- 1 x AM-500-EUR
- 2 x test leads 2 x battery 1.5 V, LR3
- 1 x user manual



Accessories:

Carrying case for devices with protective holster Model 1150

Safety set Model 370003

Ordering Information:

Description Model Article no.

AM-500-EUR AM-500-EUR 4102332 2145755 1150 Carrying case 370003 Safety set 2146666



















Included with AM series:

- AM-510-EUR, AM-520-EUR, AM-530-EUR, AM-535-EUR, AM-540-EUR, AM-550-EUR, AM-555-EUR
- test leads
- temperature probe (only AM-520-EUR, AM-530-EUR, AM-535-EUR)
- temperature probes (only AM-520-EUR, AM-530-EUR, AM-535-EUR)
- temperature adapter (only AM-535-EUR, AM-540-EUR, AM-550-EUR, AM-555-EUR)
- hanging strap (only AM-520-EUR, AM-530-EUR, AM-540-EUR, AM-550-EUR)
- battery 9 V, IEC 6LR61
- carry case (only AM-520-EUR, AM-530-EUR, 1 x AM-535-EUR, AM-540-EUR, AM-550-EUR, AM-555-EUR)
- user manual



Accessories:

Safety set Model 370003



VC221B carrying case Material: Imitation leather, carrying strap External dimensions: 220 x 115 x 60 mm Model VC221B



2 x temperature probes with adapter For AM-540-EUR and AM-550-EUR, AM-555-EUR

AM-510-EUR

- Voltage, current and resistance measurement
- Capacitance and frequency measurement
- · Diode and acoustic continuity test
- Battery test 1.5 V and 9 V (AM-510-EUR only)

Product information

- Automatic and manual range selection
- Integrated measurement memory (data hold)
- Illuminated display
- Relative measurement Auto Power Off

Product highlights

- True RMS measurement (TRMS) (only AM-530-EUR and AM-550-EUR)
- Non-contact voltage detection
- Built-in LED flashlight

AM-520-EUR

As AM-510-EUR, but with:

• Temperature measurement

Product information

- Additional bar graph display (61 segments)
- MIN/MAX hold
- · Carry case included

AM-530-EUR

As AM-520-EUR, but with:

• True RMS measurement (TRMS)

AM-540-EUR

As AM-520-EUR, but with:

- · Low pass filter
- Peak value measurement

Product highlights

- Two temperature inputs
- Duty cycle function
- Measurement category CAT IV / 600V, CAT III /

AM-550-EUR

As AM-540-EUR, but with:

• True RMS measurement (TRMS)

Technical specifications*

LCD, 33/4 digit, 5999 digits Ranges AC voltage 1 mV...1000 V $\pm (1.0\% \text{ rdg.} + 3 \text{ digits})$ Basic accuracy 45 Hz...1 kHz Frequency range DC voltage 0.1 mV...1000 V \pm (0.5% rdg. + 3 digits) Basic accuracy Input resistance $10~\text{M}\Omega$ AC current 0.1 μΑ...10 Α Basic accuracy $\pm (1.2\% \text{ rdg.} + 5 \text{ digits})$ Frequency range 45 Hz...1 kHz DC current 0.1 μΑ...10 Α \pm (1.0% rdg. + 2 digits) 0.1 Ω ...60 M Ω Basic accuracy Resistance ±(1.0 % rdg. + 2 digits) Basic accuracy Continuity $R < 10 \Omega$ 1.00 Hz...60 MHz Frequency \pm (0.1% rdg. + 3 digits) Basic accuracy 0.01 nF...60 mF Capacitance \pm (3.0% rdg. + 5 digits) Basic accuracy -40°C...1000°C Temperature ±(1.0% rdg. + 8 °C) Basic accuracy Pollution degree Measurement category CAT III/600 V, CAT II/1000 V (AM-510, AM-520, AM-530)

* Technical data relates to the highest model in the series. Data regarding individual modules can be found on our website www.beha-amprobe.com.

Safety cert.

Power supply

Dimensions

CAT IV / 600 V, CAT III / 1000 V

DIN VDE 0411, EN 61010,

1 x battery 9 V, IEC 6LR61

(AM-540, AM-550)

182 x 90 x 45 mm

IFC 61010

Ordering Informatio	n:	
Description	Model	Article no.
AM-510-EUR	AM-510-EUR	4102344
AM-520-EUR	AM-520-EUR	4131281
AM-530-EUR	AM-530-EUR	4131296
AM-535-EUR	AM-535-EUR	4701027
AM-540-EUR	AM-540-EUR	4131308
AM-550-EUR	AM-550-EUR	4131313
AM-555-EUR	AM-555-EUR	4701030
Safety set	370003	2146666

IVIOO	el IPK-62						
Model	AM-510-EUR	AM-520-EUR	AM-530-EUR	AM-535-EUR	AM-540-EUR	AM-550-EUR	AM-555-EUR
Display	3 ³ / ₄ digit, 3999 digits	3 ³ / ₄ digit, 5999 digits	3 ³ / ₄ digit, 5999 digits	3 ³ / ₄ digit, 5999 digits			
True-RMS measurement	-	-	•	•	-	•	•
Bar graph	-	•	•	•	•	•	•
Temperature	-	•	•	•	•	•	•
Temperature inputs	0	1	1	1	2	2	2
Min/max value memory	-	•	•	•	•	•	•
Peak Hold	-	-	-	-	•	•	•
Battery test	•	-	-	-	-	-	-
Low pass filter	-	-	-	-	•	•	•
Duty cycle function	-	-	-	-	•	•	•
Measurement Category	CAT III / 600 V	CAT III / 600 V CAT II / 1000 V	CAT III / 600 V CAT II / 1000 V	CAT III / 600 V CAT II / 1000 V	CAT IV / 600 V CAT III / 1000 V	CAT IV / 600 V CAT III / 1000 V	CAT IV / 600 V CAT III / 1000 V

























Hexagon® 110

Digital multimeter with extra large display

Functions

- Voltage, current and resistance measurement
- Capacitance and frequency measurement
- Diode and acoustic continuity test

Product information

- Automatic and manual range selection
- Integrated measurement memory (Data Hold) and Max Hold
- Relative measurement
- Auto Power Off
- Shock-proof and impact-resistant thanks to standard protective holster

Product highlights

- Digital multimeter with extra large display
- Acoustic warning signal and display message in case of incorrect jack connections (Hexagon 110 and 120 only)

Hexagon® 120

As Hexagon 110, but with:

• Temperature measurement

Hexagon® 340A

As Hexagon 120, but with:

- True RMS measurement (TRMS)
- Electrically isolated IR/RS-232 interface (software with adapter as option)
- 0.08 % best level of basic accuracy
- · Additional analog bar graph with zoom function for evaluating trends
- Illuminated display

Technical specifications*

Display LCD, 3¾ digit, 5000 digits Ranges AC/DC voltage 0.01 mV...1000 V AC basic accuracy ± (0.5 % rdg. + 3 D) DC basic accuracy ± (0.08 % rdg. + 2 D) AC/DC current: 0.1 µA to 10 A (20 A, 30 s) \pm (0.6 % rdg. + 3 D) AC basic accuracy DC basic accuracy \pm (0.2 % rdg. + 4 D)

AC frequency

40 Hz ... 20 kHz range Alternating current 40 Hz...1 kHz Resistance $0.01~\Omega...50~M\Omega$ ±(0.1 % rdg. + 2 D) -50°...1000° C Basic accuracy Temperature ±(0.3% rdg. + 3 digits) Basic accuracy 5 Hz...125 kHz Frequency ±(0.01% rdg. + 2 digits) 0.01 nF...9999 μF Basic accuracy Capacitance \pm (0.8% rdg. + 3 digits) Basic accuracy Pollution degree

Measurement category CAT III/600 V, CAT II/1000 V

(110, 120)

CAT IV/600 V, CAT III/1000 V (340) DIN VDE 0411, EN 61010, Safety cert.

IEC 61010

1 x battery 9 V, IEC 6LR61 198 x 97 x 55 mm Power supply **Dimensions** Weight approx. 430 g

* Technical data relates to the highest model in the series. Data regarding individual modules can be found on our website www.beha-amprobe.de or pages 31 and 32.

Model	Hexagon 110	Hexagon 120	Hexagon 340A
Display	3 ³ / ₄ digit, 4000 digits	3 ³ / ₄ digit, 4000 digits	3 ³ / ₄ digit, 5000 digits
True-RMS measurement	-	-	•
Bar graph	-	-	•
Temperature	-	•	•
Min/max value memory	Max Hold	Max Hold	•
Peak Hold	-	-	•
Illuminated display	-	-	•
RS-232 interface	-	-	•
Acoustic jack control	•	•	-
IR/RS-232 interface	-	-	•
Measurement Category	CAT III / 600 V	CAT III / 600 V	CAT IV / 600 V

Included with Hexagon:

- 1 x Hexagon 110, 120 or 340
- 1 x protective holster
- 2 x test leads
- 1 x temperature probe (0° C...+400° C) (120, 340)
- 1 x battery 9 V, IEC 6LR61 (340)
- 2 x battery 1.5 V, IEC LR03 (110, 120)
- 1 x user manual



For all Hexagon models Carrying case for devices with protective holster

Accessories:



Safety set Model 370003

Model 1150



For Hexagon 340: Software for transferring and displaying data on a PC Model 1332

Ordering Informatio	on:	
Description	Model	Article no.
Hexagon 110	93523-D	3454478
Hexagon 120	93524-D	3454484
Hexagon 340A	93497-D	3454491
Carrying case	1150	2145755
Safety set	370003	2146666
Software	1332	3313506
	Description Hexagon 110 Hexagon 120 Hexagon 340A Carrying case Safety set	Hexagon 110 93523-D Hexagon 120 93524-D Hexagon 340A 93497-D Carrying case 1150 Safety set 370003



Hold

PM51A

Pocket multimeter with frequency and capacitance measurement

Functions

- AC/DC voltage measurement
- Measuring resistance
- Diode and acoustic continuity test
- Capacitance and frequency measurement

Product information

- Automatic range selection
- Integrated measurement memory (data hold)
- With securely connected test leads
- Auto Power Off

Product highlights

- · Compact digital multimeter in card format
- · Large, clear display

Technical specifications Display

LCD, 3³/₄ digit, 4000 digits Ranges

AC voltage 0.001 V...600 V Basic accuracy \pm (2.0% rdg. + 5 digits) Frequency range 50 Hz...500 Hz DC voltage 0.1 mV...600 V Basic accuracy \pm (1.0% rdg. + 2 digits) Input resistance 10 MΩ Resistance $0.1~\Omega...40~M\Omega$ Basic accuracy ±(1.5 % rdg. + 6 digits) $R < 65 \Omega$ Continuity

5 Hz...1 MHz Frequency \pm (0.5% rdg. + 4 digits) Basic accuracy Capacitance 0.1 nF...3000 μF

 \pm (3.5 % rdg. + 6 digits) Basic accuracy Pollution degree

Measurement category CAT III/300V, CAT II/600V Safety cert. DIN VDE 0411, EN 61010,

IEC 61010

1 x battery 3 V, IEC CR2032 113 x 53 x 10 mm Power supply Dimensions approx. 78 g (incl. battery) Weight

Accessories: Ordering Information: Description Soft Field Case Model VC30A

PM51A PM51A 2727700 VC30A VC30A 3099130

Model

Article no.

Included:

1 x PM51A

Range

1 x battery 3 V, IEC CR2032

300 V

1 x user manual



PM55A

Pocket multimeter with non-contact voltage detection (VolTect™) and automatic function selection (AutoTect™)

Functions

- Voltage and resistance measurement
- Diode and acoustic continuity test
- Voltage measurement (AC/DC μA range)
- Capacitance and frequency measurement
- Non-contact voltage detection (VolTect™)

Product information

- Automatic range selection
- Includes rubber protective cover
- Auto Power Off

Product highlights

- · Compact digital multimeter in card format
- · Large, clear display
- Automatic function selection of voltage and resistance (AutoTect™)



Accessories:

Soft Case Model VC30A

Technical specifications

LCD, 3³/₄ digit, 6000 digits Display

Ranges 0.001 V...600 V AC voltage \pm (1.5% rdg. + 5 digits) Basic accuracy Frequency range 50 Hz...60 Hz DC voltage 0.001 V...450 V \pm (0.5% rdg. + 3 digits) Basic accuracy Current AC 0.1 μΑ...2000 μΑ Basic accuracy \pm (1.5% rdg. + 3 digits) Frequency range 50 Hz...60 Hz Current DC 0.1 μΑ...2000 μΑ Basic accuracy $\pm (1.2\% \text{ rdg.} + 3 \text{ digits})$ Resistance 0.1 Ω...6,000 ΜΩ Basic accuracy ±(1.2 % rdg. + 6 digits) Continuity $R < 175 \Omega$ 10 Hz...30.00 kHz Frequency \pm (0.5% rdg. + 4 digits) Basic accuracy

0.1 nF...100.0 μF Capacitance Basic accuracy \pm (3.5 % rdg. \pm 6 digits) Pollution degree

Measurement category

CAT III/300V, CAT II/600V DIN VDE 0411, EN 61010, Safety cert.

IEC 61010

Power supply 1 x battery 3 V, IEC CR2032 **Dimensions** 113 x 53 x 10 mm Weight approx. 78 g (incl. battery)

Ordering Informati	on:	
Description	Model	Article no.
PM55A	PM55A	2727721
VC30A	V/C30A	3099130

Included:

- 1 x PM55A
- 1 x battery 3 V, IEC CR2032

300 V

1 x case

Range

1 x user manual









RMS











67

Included:

- 1 x HD160C
- 2 x test leads
- 1 x magnetic holder
- 1 x temperature probe
- 1 x battery 9 V, IEC 6LR61
- 1 x user manual

Accessories:

Professional test lead set with silicone insulation Model 1306



Included:

1 x DM73C

Auto Range

- 1 x test leads
- 1 x crocodile clip
- 1 x probe
- 2 x battery 1.5 V, IEC LR44

CAT III

300 V

CAT II

600 V

Data

Hold

1 x user manual

HD160C

Heavy-duty digital multimeter (TRMS)

Functions

- Voltage, current and resistance measurement
- Diode and acoustic continuity test
- Capacitance and frequency measurement
- Temperature measurement

Product information

- Automatic and manual range selection
- Integrated measurement memory (data hold)
- MIN/MAX, relative and average value measure-
- Illuminated display
- Shock-proof and impact-resistant thanks to standard protective holster
- Auto Power Off

Product highlights

- True RMS measurement (TRMS)
- Highest safety rating of CAT IV/1000 V
 High voltages (1000 V AC and 1500 V DC)
- Protection category: IP67

HD110C

Robust multimeter for industrial applications

Functions

- Voltage, current and resistance measurement
- Diode and acoustic continuity test

Product information

- Manual range selection
- Integrated measurement memory (data hold)
- Shock-proof and impact-resistant thanks to standard protective holster
- Auto Power Off

Product highlights

- Highest safety rating of CAT IV/1000 V
- High voltages (1000 V AC and 1500 V DC)
- Protection category: IP67

Technical specifications

Display LCD, 4 digit, 9999 digits

Ranges AC voltage 0.1 mV...1000 V Basic accuracy \pm (1.2 % rdg. + 10 digits) Frequency range 45 Hz...2 kHz

DC voltage 0.1 mV...1500 V \pm (0.1% rdg. + 5 digits) Basic accuracy Input resistance 10 MO

0.01 μΑ...2 Α AC current $\pm (0.8\% \text{ rdg.} + 4 \text{ digits})$ Basic accuracy 45 Hz...1 kHz Frequency range

 $0.01~\mu A...2~A$ DC current \pm (1.5% rdg. + 10 digits) Basic accuracy Resistance

0.1 Ω...40 MΩ \pm (1.0 % rdg. + 10 digits) Basic accuracy Continuity $R < 40 \Omega$

Frequency measurement 0.01 Hz...10 MHz \pm (0.1% rdg. + 5 digits) Basic accuracy Capacitance measurement 0.01 nF...400.0 µF Basic accuracy ±(3.0% rdg. + 10 digits) Temperature -20°C...1300°C Basic accuracy ±(1.0% rdg. + 3 °C)

Pollution degree Measurement category CAT IV / 1000 V

Safety cert. DIN VDE 0411, EN 61010, IEC 61010 1 x battery 9 V, IEC 6LR61 Power supply Dimensions 200 x 102 x59 mm approx. 642 g (incl. battery) Weight

* Technical data relates to the HD160C model. Data regarding individual models can be found on our website www.beha-amprobe.com

Ordering Information:

Description Model Article no. HD160C HD160C 2670787 HD110C HD110C 2670779 Professional test lead set 1306 3313458

DM73C

Pen Type Digital Multimeter

- Voltage and resistance measurement
- Diode and acoustic continuity test

Product information

- Automatic range selection
- Integrated measurement memory (data hold)
- Additional bar graph display
- Auto Power Off

Product highlights

Compact multimeter in pen design

Technical specifications

Display LCD, 33/, digit, 3400 digits

Ranges AC voltage 0.001 V...600 V

Basic accuracy \pm (1.5% rdg. + 8 digits) Frequency range 50 Hz...500 Hz DC voltage 0.1 mV...600 V

Basic accuracy $\pm (0.5\% \text{ rdg.} + 2 \text{ digits})$ Input resistance $10\;M\Omega$ Resistance $0.1~\Omega...34~M\Omega$ Basic accuracy \pm (1.0 % rdg. + 4 digits)

 $R < 35 \Omega$ Continuity Pollution degree

Measurement category CAT III/300V, CAT II/600V DIN VDE 0411, EN 61010, Safety cert.

IEC 61010

2 x battery 1.5 V, IEC LR44 Power supply 198 x 29 x 35 mm **Dimensions**

approx. 150 g (incl. battery) Weight



Accessories:

Carrying case Model VC30A **Ordering Information:**

Description Model Article no.

DM73C DM73C 2727739 VC30A VC30A 3068280



Our recommendation for training!

Junior set A

consisting of:

- Hexagon 60 digital multimeter
- 2100-ALPHA
- Testfix 9023
- Test leads (red/black)
- Rugged carrying case

Ordering Information:

Description Article no.

Junior set A AMPRB-EU-03-A 4460579

Included:

- 1 x Hexagon 60
- 1 x 2100-ALPHA 1 x Testfix 9023
- 2 x test leads
- 1 x robust carry case



AMPRB-EU-01-A

Standard kit

Contents

- AM-510-EUR (Digital multimeter)
- ACD-10 PLUS (Digital current clamp)
- TPP1-C1 (contact thermometer)
- EU-200 (test lead set with 2 leads), 2 test prods (4 mm), 2 crocodile clips (CAT III/1000 V)
- Hard carrying case

Included:

- 1 x AM-510
- 1 x ACD-10 PLUS
- 1 x TPP1-C1
- 1 x EU-200
- 1 x Hard carrying case

Ordering Information:

Description Article no.

Standard kit A AMPRB-EU-01-A 4460593



Included:

- 1 x AM-540-EUR
- 1 x ACDC-100 TRMS
- 1 x IR608A
- 1 x EU-200
- 1 x Hard carrying case

AMPRB-EU-02-A

Professional kit

Contents

- AM-540-EUR (Digital multimeter)
- ACDC-100 TRMS (digital AC/DC current clamp)
- IR608A infrared thermometer
- EU-200 (test lead set with 2 leads), 2 test prods (4 mm), 2 crocodile clips CAT III/1000 V
- Hard carrying case

Ordering Information:

Description Model Article no.

Professional kit A AMPRB-EU-02-A 4460587

Current clamps



Symbols used in this chapter

Our clamp meters and clamp adapters are suitable for measuring currents without interruption of the current flow.

They enable current measurements in units and systems from 1 mA up to 3000 A.

Our leakage current clamps, which enable a resolution of 0.01 mA AC, are ideal for troubleshooting insulation faults in systems and in equipment tests.

Products

Full overview	35
AMP series of clamp meters	
(AC, AC/DC)	38
Clamp meters (AC)	40
Clamp meters (AC/DC)	41
Power clamp meters	44
Leakage current clamp meters	46
Clamp meters (AC/DC),	
current clamp adapters,	
and accessories	47

min/max	Minimal or maximal value memory	PC	PC interface
Peak Hold	Peak value memory	4	Setting up UNINSULATED, HAZARDOUS, ACTIVE conductors and removal of these is permitted
Auflösung 10 μA AC	Best resolution (e.g. 10 μA AC)	data logger	Integrated measurement value recording (data logger)
1000 A AC/DC	Information regarding the current measurement range (e.g. 1000 A AC)		Back light
Output Analog	Analog output	True RMS	True-RMS measurement
°C	Temperature measurement	CAT IV 600 V	Measurement Category
Filter\	Low pass filter	L3 L1	Phase sequence indication
-	Capacitance measurement	02k	Measuring resistance
Hz	Frequency verification	μΑ	Measurement of ionization current (uA DC range) in heating systems
•))	Acoustic continuity measurement (occasionally with diode test)	A	AMP tip

Interesting facts regarding current clamps and clamp adapters

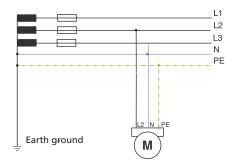
Current clamps and clamp adapters are suitable for measuring AC and DC currents on units and systems without interrupting the current flow.

Safety

Only use current clamps or clamp adapters that are suitable for the stated measurement category for the desired measurement. If, for example, you wish to carry out a measurement in a distribution cabinet within a building, then a multimeter with at least a measurement category of III (CAT III) must be used. A detailed description of the measurement categories can be found on page 106.

Measuring current without interruptions

Switching off systems or individual units in order to separate the circuit is not generally possible in practice and is largely avoided. All hazards, such as, for example, the appearance of hazardous contact voltages or a potential polarity reversal upon closing the circuit can be effectively prevented.

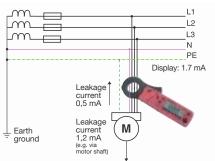


Measurement of current usage "Max-Hold" function of a single-phase motor

Stray current measurement (leakage current measurement)

High-resolution current clamps for leakage currents over 10 µA are indispensable, particularly for troubleshooting or for testing units and systems in accordance with the Ordinance on Industrial Safety and Health (DGUV Regulation 3). Currents that do not flow back via an electrical

conductor (e.g. N) can be quickly, simply, and safely measured by covering all active conductors (e.g. L1, L2, L3, N, or L1, N).





Differential current measurement with leakage current clamp

Simple to use

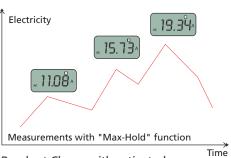
Our current clamps and clamp adapters are characterized by being simple and intuitive. The individual conductor is fully surrounded by the current clamp. The measured value appears on the digital display and can be read off immediately.

Storing the displayed reading (Hold) and measurement memory

After pressing the HOLD button, the value that is currently displayed is stored on the display. This is very useful if the display cannot be read during measurement. With some current clamps the minimum or maximum value (min/max data hold) of a measurement series can also be stored on the display.

Peak value memory (Peak Hold)

Some clamp meters are equipped with a peak value memory (or measurement of inrush current). Due to the shorter response time it is possible to record current spikes in motors upon ignition, for example.



Readout Clamp with activated "MAX-HOLD" function

True-RMS measurement

True-RMS measurement is necessary for the most precise recording of an alternating or mixed current.

The effective value plays an important part, especially with non-sinusoidal currents, e.g. phase angle control. The average value displayed by traditional current clamps is lower than the current that is actually available. Further information regarding the effective value can be found in "Things to know about multimeters".

Power clamp meters

Measurement of apparent, active, reactive power and power factor cos is quick and simple with the BEHA-AMPROBE range of power clamp meters. Power consumers with load currents up to 1000 A can be measured.

Clamp adapters

Clamp adapters are suitable for applications which are solely aimed at recording measurements. Depending on the type of evaluating circuit, the primary flowing current can be converted into a considerably lower, safe secondary current or a voltage. Applications: e.g. switch cabinet construction, laboratory measurement circuits.



Model	AMP-25-EUR	AMP-210-EUR	AMP-220-EUR	AMP-310-EUR	AMP-320-EUR	AMP-330-EUR
Max. current	300 A	600 A	600 A	600 A	600 A	1000 A
Current type	ACDC	AC	AC/DC	AC	ACDC	AC/DC
True RMS measurement	•	•	•	•	•	•
Display	3 ¾ digit, 6000 digits	3 ¾ digit, 6000 digits	3 ¾ digit, 6000 digits	3 ¾ digit, 6000 digits	3 ¾ digit, 6000 digits	3 ¾ digit, 6000 digits
Current AC	60.00 / 300.0 A	60.00 / 600.0 A	60.00 / 600.0 A	60.00 / 600.0 A	60.00 / 600.0 A	60.00 / 1000 A
Basic Accuracy*	1.5% + 5 counts	2.2 % + 7 counts	2.2 % + 7 counts	2.2 % + 7 counts	2.2 % + 7 counts	1.8% + 5 counts
Frequency	50400 Hz	50400 Hz	50400 Hz	50400 Hz	50400 Hz	40400 Hz
Current DC	60.00 / 300.0 A		60.00 / 600 A		60.00 / 600 A	60.00 / 1000 A
Basic Accuracy*	1.5% + 5 counts		2.0 % + 5 counts		2.0 % + 5 counts	1.8% + 5 counts
Voltage AC		0.1600.0 V	0.1600.0 V	0.1600.0 V	0.1600.0 V	0.11000 V
Basic accuracy*		1.0% + 5 counts	1.0% + 5 counts	1.0% + 5 counts	1.0% + 5 counts	0.8% + 5 counts
Frequency		5060 Hz	5060 Hz	5060 Hz	5060 Hz	20400 Hz
Voltage DC			0.1600.0 V		0.1600.0 V	0.11000 V
Basic Accuracy*			1.2% + 7 counts		1.2% + 7 counts	0.8% + 5 counts
Resistance		0.1 Ω…60,00 kΩ	0.1 Ω60,00 kΩ	0.1 Ω60,00 kΩ	0.1 Ω60,00 kΩ	0.1 Ω60,00 kΩ
Basic Accuracy*		1% + 5 counts	1% + 5 counts	1% + 5 counts	1% + 5 counts	1% + 5 counts
Continuity test		R < 10 Ω	R < 10 Ω	R < 10 Ω	R < 10 Ω	R < 10 Ω
Frequency verification		5.00 Hz999.9 Hz	5.00 Hz999.9 Hz	5.00 Hz999.9 Hz	5.00 Hz999.9 Hz	5.00 Hz999.9 Hz
Power measurement						
Data Hold	•	•	•	•	•	•
MIN/MAX/Peak Hold	•	•	•		•	•
Capacitance measurement		•	•	•	•	•
Jaw opening	25 mm	30 mm	35 mm	30 mm	35 mm	51 mm
Power supply	2 x 1.5 V IEC LR44	2 x 1.5 V IEC LR03	2 x 1.5 V IEC LR03	2 x 1.5 V IEC LR03	2 x 1.5 V IEC LR03	2 x 1.5 V IEC LR6
Auto Power Off	•	•	•	•	•	•
Measurement category	CAT III/600V	CAT III/600V	CAT III/600V	CAT III/600V	CAT III/600V	CAT IV 600V, III 1000V
Features	Back light Low pass filter Non-contact voltage recognition, measurement of inrush current	Diode test, Back light	Diode test, Back light	Diode test, back light ther- mometer -40°C to 400°C 3-phase and motor rotation indicator DC micro amps	Diode test, Back light Thermometer –40°C to 400°C 3-phase and motor rotation indicator DC micro amps	Diode test, back light thermometer 40°C to 400°C 3-phase and motor rotation indicator DC micro amps Flashlight function

 $[\]star$ = Basic accuracy figures are with regard to the best level of accuracy of the relevant measurement function

	ACD-10 PLUS	ACD-14-PRO-EUR	ACD-205W	ACD-235W	CHB 15	CHB 35	ACDC-100	ACDC-100 TRMS
Max. current	600 A	600 A	400 A	400 A	200 A	400 A	800 A AC/1000 A DC	800 A AC/1000 A DC
Current type	AC	AC	AC	AC	AC/DC	AC/DC	AC/DC	AC/DC
True RMS measurement				•		•		•
	3¾ digit, 4000 digits	3¾ digit, 4000 digits	3¾ digit, 3999 digits	3¾ digit, 3999 digits	3¾ digit, 3999 digits	3¾ digit, 3999 digits	3¾ digit, 4000 digits	3% digit, 4000 digits
Current AC	0.01 A 600 A	0.01 A 600 A	0.01 A 400 A	0.01 A 400 A	0.01A200 A	0.001 A400 A	0.1 A800 A	0.1 A800 A
Basic Accuracy*	1.5% + 8 digits	1.9% + 8 digits	2% + 6 digits	2% + 6 digits	2% + 4 digits	2% + 3 digits	1.5% + 5 digits	1.5% + 5 digits
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	40Hz1kHz	40Hz1kHz	40200 Hz	40200 Hz
Current DC					0.01 A200 A	0.01 A400 A	0.1 A1000 A	0.1 A1000 A
Basic Accuracy*					2% + 2 digits	2% + 2 digits	1.5% + 4 digits	1.5% + 4 digits
Voltage AC	0.001 V 600 V	0.001 V 600 V	1 mV 600 V	1 mV 600 V	0.1 V400 V		0.1 mV600 V	0.1 mV600 V
Basic Accuracy*	1.5% + 5 digits	1.5% + 5 digits	1.2% + 5 digits	1.2% + 5 digits	2% + +2		1% + 4 digits	1% + 4 digits
Frequency	50500 Hz	50400 Hz	50500 Hz	50500 Hz	40Hz1kHz		50500 Hz	50500 Hz
Voltage DC	0.1 mV 600 V	0.1 V 600 V	0.1 mV 600 V	0.1 mV 600 V	0.1 V400 V		0.1 mV600 V	0.1 mV600 V
Basic Accuracy*	0.5 % + 3 digits	0.5 % + 3 digits	0.5 % + 2 digits	0.5 % + 2 digits	2% + +2		0.5 % + 3 digits	0.5 % + 3 digits
Resistance	0.1 Ω40.00 ΜΩΩ	0.1 Ω 40.00 ΜΩΩ	0.1Ω40.00 ΜΩΩ	0.1Ω40.00 ΜΩΩ	0.1 Ω400 Ω		0.1 Ω40 MΩ	0.1 Ω40 MΩ
Basic Accuracy*	1.0% + 4 digits	0.8% + 6 digits	1.0% + 4 digits	1.0% + 4 digits	2% + 2 digits		0.8% + 6 digits	0.8% + 6 digits
Continuity test	R < 120 Ω	R < 120 Ω	R < 25 Ω	R < 25 Ω	R < 40 ΩΩ		R < 120 ₪	R < 120 Ω
Frequency verification	0.001Hz100kHz	0.001Hz100kHz			0.01 Hz50 kHz	0.01 Hz9.99 kHz	R < 120 Ω	R < 120 Ω
Power measurement								
	•	•	•	•	•	•		•
MIN/MAX/Peak Hold	•	•			•	•		
Capacitance measurement	•	•		•				
Jaw opening	25 mm	26 mm	30 mm	30 mm	23 mm	23 mm	50 mm	50 mm
Power supply	1 × 3V, IEC/CR2032	2 × 3 V, IEC/CR2032	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC LR6	2 x 1.5 V, IEC LR6	2 x 1.5 V, IEC LR03	2 x 1.5 V, IEC R03
Auto Power Off	•	•	•	•			•	•
Measurement Category	CATIII/600 V	CATIII/600 V	CATIII/600 V	CATIII/600 V	CATII/600 V	CATII/600 V	CATIII/600 V	CATIII/600 V
	Narrow jaws Measurement of inrush current	2000 µA measurement range for direct measurement of ionization currents in heating systems	Non-contact voltage recognition, swivel clamp head (180°)	Non-contact voltage recognition, swivel clamp head (180°)		Non-contact frequency measurement	Measurement of inrush current	Measurement of inrush current True-rms reading



Model	ACD-SONAV	ACDC-52NAV	ACDC-54NAV	ACDC-400	ACDC-3400 IND	ACSOA	CHBS	LH41A
								T
Max. current	600 A	600 A	1000 A AC/DC	400 A	1000 A	60 A	50 A	40 A
Current type	AC	AC/DC	AC/DC	AC/DC	AC/DC	AC	AC	ACDC
True RMS Measurement	•	•	•		•		•	
Display	3% digit, 4000 digits	3¾ digit, 4000 digits	3¾ digit, 4000 digits	3¾ digit, 3999 digits	3¾ digit, 6600 digits	3¾ digit, 3999 digits	4 digit, 9999 digits	4 digit, 4000 digits
Current AC	0.01600 A	0.01600A	0.011000 A	0.01 A 400 A	0.1 A1000 A	0.01 mA60 A	0.5 mA50 A	0.00140 A
Basic Accuracy*	1.5 % + 5 digits	1.5 % + 5 digits	1.5 % + 5 digits	1.5% + 3 digits	2 % + 10 digits	1.5% + 5 digits	1.5% + 5 digits	1.3% + 5 digits
Frequency	50 Hz400 Hz	50 Hz400 Hz	50 Hz400 Hz	20/60 Hz	501 kHz	40 Hz1 kHz	45 Hz 1 kHz	40400 Hz
Current DC		0.01600 A	0.011000 A	0.01 A400 A	0.1 A1000 A			0.00140 A
Basic Accuracy*		1.5 % + 5 digits	1.5 % + 5 digits	1.5% + 3 digits	2 % + 5 digits			1.3% + 5 digits
Voltage AC	0.011000 V	0.011000 V	0.011000 V	0.1 mV600 V	0.1 mV750 V	0.1 V400 V	0.1 V600 V	
Basic Accuracy*	1 % + 5 digits	1 % + 5 digits	1 % + 5 digits	1% + 3 digits	1.5 % + 8 digits	2% + 4 digits	0.5% + 5 digits	
Frequency	50 Hz500 Hz	50 Hz500 Hz	50 Hz500 Hz	50500 Hz	50 Hz1 kHz	40 Hz1 kHz	50 Hz1 kHz	
Voltage DC	0.011000 V	0.011000 V	0.011000 V	0.1 mV600 V	0.1 mV1000 V			
Basic Accuracy*	0.7 % + 2 digits	0.7 % + 2 digits	0.7 % + 2 digits	0.8 % + 2 digits	0.5% + 2 digits			
Resistance	1 Ω99.99 kΩ	1 Ω99.99 kΩ	1 Ω99.99 kΩ	0.1 Ω40 ΜΩΩ	0.1 Ω66.00 MΩ	0.1 Ω400 Ω		
Basic Accuracy*	1 % + 3 digits	1 % + 3 digits	1 % + 3 digits	1% + 3 digits	1% + 5 digits	1 % + 2 digits		
Continuity test	R < 30 Ω	R < 30 \Omega	R < 30 Ω	R < 40 Ω Ω	R < 30 Ω	R < 40 Ω		
Frequency verification	20.009,999 kHz	20.009,999 kHz	20.009,999 kHz		0.01 Hz1000 MHz		45 Hz65 Hz	
Power measurement	0600 kW	0600 kW	0999 kW					
Data Hold	•	•	•	•	•		•	•
MIN/MAX Peak Hold	•	•	•	•	•			
Capacitance measurement	0.014000 µF	0.014000 µF	0.014000 µF		0.001 nF6.6 mF			
Jaw opening	37 mm	42 mm	42 mm	30 mm	51 mm	30 mm	30 mm	19 mm
Power supply	9 V, IEC 6F22	9 V, IEC 6F22	9 V, IEC 6F22	2 x 1.5 V, IEC R03	1 × 9 V, IEC 6F22	2 × 1.5 V, IEC LR6	2 x 1.5 V, IEC LR6	1 x 9 V, IEC 6LR61
Auto Power Off	•	•	•	•	•	•		•
Measurement Category	CAT II / 1000 V	CAT IV / 600 V CAT III / 1000 V	CAT IV / 600 V CAT III / 1000 V	CATIII/600 V	CATIII/1000 V, CATIV/600 V	CATII/600 V	CATII/600V, CAT III/300 V	CATIII/300 V
Features	Active power, cos φ, Harmonic content (THD), Bar graph	Active power, cos w, Harmonic content (THD), Bar graph	Active power, cos q, Harmonic content (THD), Temperature, Bar graph	Illuminated display	Relative value measurement, Illuminated display, Duty cycle function	Leakage current clamp, lowest resolution 0.01 mA	Leakage current clamp, lowest resolution 0.01 mA Harmonics measurement up to the 99th peak value measurement	Measurement of direct currents with 1 mA resolution

^{* =} Basic accuracy figures are with regard to the best level of accuracy of the relevant measurement function



True **Peak** RMS Hold















Filter\









60kΩ





600 V

AC



600 A

AC





Filter\













CAT III

600 V

AMP-25-EUR

Mini current clamp (AC/DC)

- True RMS current measurement
- · Low pass filter
- Measurement of inrush current
- Non-contact voltage detection

Product information

- Automatic range selection
- Zero adjustment
- Integrated measurement memory (data hold)
- Jaw opening 25 mm
- Auto Power Off

Product highlights

- Very compact design
- Illuminated display

Included:

- 1 x AMP-25
- 2 x batteries 1.5V, IEC LR 44
- 1 x carrying case
- 1 x user manual

AMP-210-EUR

current clamp (AC)

- Current, voltage and resistance measurement
- · Capacitance and frequency measurement
- Continuity beeper
- Low pass filter
- Measurement of inrush current
- Non-contact voltage detection

Product information

- Automatic range selection
- Zero adjustment, relative value measurement
- Integrated measurement memory (Data Hold, MIN/MAX)
- Jaw opening
- 30 mm (AMP-210-EUR),
- 35 mm (AMP-220-EUR)
- Auto Power Off

Product highlights

- Precise measurement of smaller currents (Amp-Tip)
- Illuminated display

AMP-220-EUR

Current clamp (AC/DC)

As AM-210-EUR, but with:

- DC Current Function
- Display of mixed currents AC+DC (TRMS)
- Display of mixed voltages AC+DC (TRMS)
- Larger housing than AMP-220-EUR

Included:

- 1 x AMP-210-EUR or AMP-220-EUR
- 2 x test leads
- 2 x batteries 1.5 V, IEC LR 03
- 1 x carrying case
- 1 x user manual



Accessories:

Safety set Model 370003

Technical specifications

LCD, 3¾ digit, 6000 digits Display Ranges Current AC 0.01 A... 60 / 300 A Basic accuracy \pm (1.5% rdg. + 5 digits) Frequency range 50...400 Hz Current DC 0.01 A... 60 / 300 A Basic accuracy \pm (1.5% rdg. + 8 digits) Current AC (with low pass filter) 0.01 A... 300 A Basic accuracy \pm (3.5% rdg. + 5 digits)

50...60 Hz Frequency range Pollution degree Measurement category CAT III/600 V

Safety cert.: DIN VDE 0411/EN 61010/ approx. 25 mm Jaw opening

2x battery 1.5V IEC LR 44 Power supply 147 x 60 x 32 mm Dimensions Weight approx. 140 g

Ordering Information:

Article no. Description Model AMP-25-EUR AMP-25-EUR 4588268

Technical specifications*

Display LCD, 3¾ digit, 6000 digits

Ranges Current AC 0.01 A... 600 A Basic accuracy \pm (1.8% rdg. + 5 digits) Frequency range 50...400 Hz Current DC 0.01 A... 600 A Basic accuracy \pm (2.0% rdg. + 5 digits) Current (Amp-Tip) AC/DC 0.01 A... 60 A Basic accuracy \pm (1.5% rdg. + 5 digits) Frequency range DC, 50...60 Hz AC/DC voltage 0.1 V...600 V

Basic accuracy \pm (1.0% rdg. + 5 digits) Frequency range DC, 50...60 Hz Continuity IN \leq 10 Ω , OUT \geq 250 Ω Resistance $0.01 \dots 60.00 \text{ k}\Omega$ Basic accuracy \pm (1.0% rdg. + 5 digits)

Capacitance

measurement 0.1 ... 2500 μF Frequency measurement 5.00 ... 999.9 Hz

Non-Contact

Voltage measurement 10 ...1000 V AC, 50/60Hz

Pollution degree

Measurement category CAT III/600 V

Safety cert.: DIN VDE 0411/EN 61010 Jaw opening approx. 30 mm (AMP-210-EUR), approx. 35 mm (AMP-220-EUR) 2x batteries 1.5 V, IEC LR 03 (AAA),

Power supply

Micro 219 x 77 x 37 mm (AMP-210-EUR), Dimensions

224 x 77x 37 mm (AMP-220-EUR) approx. 208 g (AMP-210-EUR), Weight approx. 254 g (AMP-220-EUR)

* Technical data relates to the highest model in the series. Data regarding individual modules can be found on our website www.beha-amprobe.com or the table on pages 41, 42, and 43.

Ordering Information:

Description Model Article no. AMP-210-EUR 4560581 AMP-210-EUR AMP-220-EUR AMP-220-EUR 4560596 Safety set 370003 2146666









Filter\















600 V

AC







Filter\







True











AMP-310-EUR

current clamp (AC)

- Current, voltage and resistance measurement
- Capacitance and frequency measurement
- Measurement of ionization current (µA DC
- Temperature measurement
- Continuity beeper
- Low pass filter
- Measurement of inrush current
- Non-contact voltage detection

Product information

- Automatic range selection
- Zero adjustment, relative value measurement
- Integrated measurement memory (Data Hold, MIN/MAX)
- Jaw opening 30 mm (AMP-310-EUR), 35 mm (AMP-320-EUR), 51 mm (AMP-330-EUR)
- Auto Power Off

Product highlights

- Precise measurement of smaller currents (Amp-Tip)
- Displays rotary field direction and motor rotation direction Illuminated display
- Measurement of ionization current (uA DC range) in heating systems

AMP-320-EUR

Current clamp (AC/DC)

As AM-310-EUR, but with:

- DC Current Function
- Display of mixed currents AC+DC (TRMS)
- Display of mixed voltages AC+DC (TRMS)

Technical specifications*

Current (Amp-Tip)

Basic accuracy

Safety cert.:

Dimensions

AC/DC

LCD, 3¾ digit, 6000 digits Display Ranges 0.01 A... 600 A (or 1000 A) Current AC Basic accuracy \pm (1.8% rdg. + 5 digits) Frequency range 50...400 Hz Current DC 0.01 A... 600 A (or 1000 A) Basic accuracy \pm (2.0% rdg. + 5 digits)

0.01 A... 60 A

±(1.5% rdg. + 5 digits)

DC, 50...60 Hz Frequency range AC/DC voltage 0.1 V...600 V (or 1000 V) $\pm (1.0\% \text{ rdg.} + 5 \text{ digits})$ Basic accuracy Frequency range DC, 50...60 Hz Continuity IN \leq 10 Ω , OUT \geq 250 Ω 0.01 ... 60.00 kΩ Resistance $\pm (1.0\% \text{ rdg.} + 5 \text{ digits})$ Basic accuracy

Capacitance measurement 0.1 ... 2500 μF Frequency 5.00 ... 999.9 Hz measurement Non-Contact

10 ...1000 V AC, 50/60Hz Voltage measurement 0.1 μA... 2000 μA ±(1.0% rdg. + 5 digits) -40 ... +400 °C ±(1.0% rdg. + 0.8 °C) Ionization current Basic accuracy Temperature Basic accuracy

Pollution degree Measurement category CAT III/600 V

CAT IV / 600 V, CAT III / 1000 V

(AMP-330-EUR) DIN VDE 0411/EN 61010 30 mm (AMP-310-EUR) Jaw opening 35 mm (AMP-320-EUR) 51 mm (AMP-330-EUR) Power supply

2x battery 1.5 V, IEC LR 03 (AAA), Micro

2x battery 1.5 V, IEC LR 06 (AA), Mignon (AMP-330-EUR) 219 x 77x 37 mm (AMP-310-EUR)

224 x 77 x 37 mm (AMP-320-EUR) 258 x 94 x 44 mm (AMP-330-EUR) Weight approx. 208 g AMP-310-EUR), approx. 254 g (AMP-320-EUR)

approx. 420 g (AMP-330-EUR)

* Technical data relates to the highest model in the series. Data regarding individual modules can be found on our website www.beha-amprobe. com or the table on pages 41, 42, and 43.

AMP-330-EUR

Current clamp (AC/DC)

As AMP-320-EUR, but with:

- Voltage measurement up to 1000 A AC/DC
- AC and DC voltage measurements to 1000 V • Measurement categories CAT IV 600 V, CAT III 1000 V
- Larger housing than AMP-320-EUR

Included:

- 1 x AMP-310-EUR or AMP-320-EUR
- 2 x test leads 2 x crocodile clips
- 1 x temperature probe
- 2 x battery 1.5 V, IEC LR 03 (or IEC LR 06)
- 1 x carrying case
- 1 x user manual



Accessories:

Safety set Model 370003

Ordering information: Description Model Article no. AMP-310-FUR AMP-310-EUR 4560603 AMP-320-EUR AMP-320-EUR 4560615 AMP-330-EUR AMP-330-EUR 4560626 Safety set 370003 2146666



Filter\

Hz









True

RMS

1000 A

AC/DC





1000 V

AC/DC







600 A AC

Data

Hold



Hz



Peak

Hold









- 1 x ACD-10 PLUS
- 1 x battery 3 V, IEC CR2032
- 1 x carrying case

ACD-10 PLUS

current clamp (AC)

- Current, voltage and resistance measurement
- Continuity beeper
- Diode test
- Capacitance and frequency measurement
- Measurement of inrush current (30 ms)

Product information

- Automatic range selection
- Integrated measurement memory (Data hold and MAX hold)
- Jaw opening 25 mm
- Auto Power Off

Product highlights

Narrow jaws

Technical specifications

LCD, 3¾ digit, 4000 digits Display

Ranges Current AC 0.01 A... 600 A Basic accuracy $\pm (1.5\% \text{ rdg.} + 8 \text{ digits})$ Frequency range 50/60 Hz AC voltage 0.001 V...600 V Basic accuracy \pm (1.5% rdg. + 5 digits) Frequency range 50...500 Hz DC voltage 0.1 mV...600 V Basic accuracy ±(0.5 % rdg. + 3 digits) $R<120\;\Omega$ Continuity 0.1 Ω... 40.00 ΜΩ Resistance \pm (1.0% rdg. + 4 digits) Basic accuracy

Frequency measurement0.001 Hz...100 kHz

Capacitance

measurement 0.1 nF...3000 μF Pollution degree

Measurement category

CAT III/600 V Safety cert.: DIN VDE 0411/EN 61010/

IEC 61010

Jaw opening approx. 25 mm

1 x battery 3 V, IEC CR2032 190 x 63 x 32 mm Power supply Dimensions Weight approx. 150 g

Included:

- 2 x test leads

- 1 x user manual



Accessories:

Safety set Model 370003

Ordering Information:

Description Article no.

ACD-10 PLUS **ACD-10 PLUS** 3037808 ACD-10 PLUS ACD-10 PLUS-D* 3454555 Safety set 370003 2146666

D* is German version

ACD-14-PRO-EUR

Current clamp with dual display (AC)

- True RMS current measurement
- Voltage and resistance measurement
- Capacitance and frequency measurement
- Temperature measurement
- Continuity beeper
- Low pass filter
- Measurement of inrush current
- Non-contact voltage detection

Product information

- Automatic range selection
- Integrated measurement memory (data hold)
- Jaw opening 30 mm
- Auto Power Off

Product highlights

- Dual display with illumination
- Precise measurement of small AC currents (Amp-Tip)
- Measurement of ionization current
- True RMS measurement (TRMS)

- (µA DC range) in heating systems

Included:

600 A

AC

CAT III

600 V

- 1 x ACD-14-PRO-EUR
- 2 x test leads
- 1 x temperature probe
- 2 x batteries 1.5 V, IEC LR 03

Peak

Hold

Data

Hold

True

RMS

Filter\

- 1 x carrying case
- 1 x user manual



Accessories:

Safety set Model 370003

Technical specifications

Display Dual-LCD, 3¾ digit, 6000 digits

Ranges Current AC 0.01 A... 600 A Basic accuracy \pm (1.8% rdg. + 5 digits) 50...400 Hz Frequency range Current (Amp-Tip) AC 0,01 A... 60 A

 \pm (1.5% rdg. + 5 digits) Basic accuracy 50...60 Hz Frequency range AC/DC voltage 0.1 V...600 V (or 1000 V) ±(1.0% rdg. + 5 digits) Basic accuracy

Frequency range DC, 50...60 Hz Continuity IN \leq 10 Ω , OUT \geq 250 Ω Resistance $0.01 \dots 60.00 \text{ k}\Omega$

Basic accuracy \pm (1.0% rdg. + 5 digits) Capacitance 0.1 ... 2500 μF measurement

Frequency measurement5.00 ... 999.9 Hz

Non-Contact Voltage measurement 10 ... 550 V, 50/60 Hz 0.1 μΑ... 2000 μΑ Ionization current ±(1.0% rdg. + 5 digits) -40 ... +400 °C Basic accuracy Temperature ±(1.0% rdg. + 0.8 °C) Basic accuracy

Pollution degree CAT III/600 V

Measurement category DIN VDE 0411/EN 61010 Safety cert.:

Jaw opening 30 mm

2x batteries 1.5 V, IEC LR 03 (AAA), Power supply

Micro

Dimensions 219 x 77 x 37 mm Weight approx. 208 g

Ordering Information:

Description Article no. Model

ACD-14-PRO-EUR ACD-14-PRO-EUR 4718989 370003 2146666 Safety set

Clamp meters (AC/DC) up to 400 A / 800 A





ACD-20SW

Swivel clamp meter (AC)

- Current, voltage and resistance measurement
- Continuity beeper
- Diode test

Product information

- Automatic and manual range selection
- Integrated measurement memory (data hold)
- Jaw opening approx. 30 mm
- Auto Power Off

Product highlights

- Clamp head swivels up to 180°
- Non-contact voltage detection

Technical specifications

LCD, 3¾ digit, 3999 digits Display

Ranges Current AC 0.01...400 A Basic accuracy \pm (2% rdg. + 6 digits) Frequency range 50...60 Hz AC voltage 1.0 mV...600.0 V Basic accuracy \pm (1.2% rdg. + 5 digits) Frequency range 50...500 Hz DC voltage 0.1 mV...600 V

Basic accuracy \pm (0.5% rdg. + 2 digits) Continuity $R<25\;\Omega$ Resistance $0.1~\Omega...~40~M\Omega$ \pm (1.0% rdg. + 4 digits) Basic accuracy

Pollution degree CAT III / 600 V Measurement category

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010

approx. 30 mm Jaw opening

2 x battery 1.5 V, AAA IEC LR03 240 × 70 × 41 mm Power supply

Dimensions Weight approx. 220 g

AC

Included:

- 1 x ACD-20SW
- 2 x test leads
- 2 x battery 1.5V, IEC LR03

AC/DC

40MΩ

600 V

Hold

- 1 x carrying case
- 1 x user manual



Accessories:

Safety set Model 370003

Ordering Information:

Description Model Article no.

ACD-20SW ACD-20SW 3472723 Safety set 370003 2146666



400 A AC





True **RMS**











ACD-23SW

Swivel clamp meter TRMS (AC)

- Current, voltage and resistance measurement
- Audible continuity and diode test
- Capacitance and temperature measurement

Product information

- Automatic and manual range selection
- Integrated measurement memory (data hold)
- Jaw opening approx. 30 mm

Auto Power Off

Product highlights

- Clamp head swivels up to 180°
- Non-contact voltage detection • True RMS measurement (TRMS)

Technical specifications

Display LCD, 3¾ digit, 3999 digits

Ranges Current AC 0.01...400 A Basic accuracy \pm (2% rdg. + 6 digits) 50...60 Hz Frequency range 1.0 mV...600.0 V AC voltage Basic accuracy \pm (1.2% rdg. + 5 digits) 50...500 Hz Frequency range 0.1 mV...600 V DC voltage

Continuity $R < 25 \Omega$ Resistance $0.1~\Omega...~40~M\Omega$ Basic accuracy \pm (1.0% rdg. + 4 digits) Capacitance measurement 0.01...4000 μF

Temperature measurement Pollution degree

Basic accuracy

Measurement category CAT III / 600 V

DIN VDE 0411/EN 61010/IEC Safety cert.: 61010

approx. 30 mm

 \pm (0.5% rdg. + 2 digits)

-35...400°C

Jaw opening 2 x battery 1.5 V, AAA IEC LR03 Power supply

240 × 70 × 41 mm Dimensions approx. 220 g Weight

Included:

- 1 x ACD-23SW
- 2 x test leads
- 2 x battery 1.5V, IEC LR03
- 1 x temperature probe
- 1 x carrying case
- 1 x user manual



Accessories:

Safety set Model 370003 **Ordering Information:**

Description Model Article no. ACD-23SW ACD-23SW 3804941

Safety set 370003 2146666

Current clamps | Clamp meters (AC/DC) bis 400 A





Manual

Range





Data

Hold









ACDC-400

Current clamp (AC/DC)

- Current, voltage and resistance measurement
- Continuity beeper

Product information

- Automatic and manual range selection
- Integrated measurement memory (data hold, MIN/MAX)
- Relative measurement
- Additional bar graph display
- Jaw opening 30 mm
- Auto Power Off

Product highlights

- AC/DC clamps are also suitable for automotive applications, emergency power supplies and solar technology.
- Illuminated display

Technical specifications

LCD, 3¾ digit, 3999 digits Display Ranges Current AC 0.01 A... 400 A Basic accuracy \pm (1.5% rdg. + 3 digits) Frequency range 50/60 Hz Current DC 0.01 A... 400 A Basic accuracy \pm (1.5% rdg. + 3 digits) AC voltage 0.1 mV...600 V Basic accuracy \pm (1% rdg. + 3 digits) Frequency range 50...500 Hz DC voltage 0.1 mV...600 V Basic accuracy \pm (0.8 % rdg. + 2 digits) Continuity $R < 40 \Omega$ Resistance $0.1~\Omega...~40~M\Omega$

Basic accuracy \pm (1% rdg. + 3 digits) Pollution degree

Measurement category CAT III / 600 V Safety cert.: DIN VDE 0411/EN 61010/

IEC 61010 approx. 30 mm Jaw opening

2 x battery 1.5 V, IEC LR03 205 x 64 x 39 mm Power supply Dimensions Weight approx. 280 g

Included:

- 1 x ACDC-400
- 2 x test leads
- 2 x battery 1.5 V, IEC LR03
- 1 x carrying case
- 1 x user manual

Accessories:

Safety set Modél 370003

Ordering Information:

Description Article no.

ACDC-400 ACDC-400-D* 3454596 ACDC-400 ACD-400 2730810 Safety set 370003 2146666

*D is German version



AMP-210-EUR AC clamp meter



AMP-320-EUR AC/DC clamp meter



AMP-330-EUR AC/DC clamp meter

Current clamps (AC/DC) up to 200 A / 400 A



















Accessories:

Safety set Model 370003

Included:

- 1 x CHB15
- 2 x test leads
- 2 x battery 1.5 V, IEC LR6
- 1 x carrying case
- 1 x user manual



TRMS current clamp (AC/DC)

Functions

• Current measurement

CHB35

• Frequency measurement (non-contact)

Product information

- Manual range selection
- Integrated measurement memory (data hold)
- MIN/MAX and relative value measurement
- Additional bar graph display
- Jaw opening 23 mm

Product highlights

- AC/DC clamps are also suitable for automotive applications, emergency power supplies and solar technology.
- True RMS measurement (TRMS)

Technical specifications

LCD, 3¾ digit, 3999 digits Display Ranges

Current AC 0.01...200 A

Basic accuracy ± (2 % rdg. + 4 digits) Current DC 0.01...200 A Basic accuracy

± (2 % rdg. + 2 digits) Voltage AC 0.1...400 V Basic accuracy ± (2 % rdg. + 2 digits) DC voltage 0.1 V...400 V

AC current/voltage Input resistance $10\;\text{M}\Omega$ Resistance 0.1...400 Ω

Basic accuracy $R < 40 \Omega$ Continuity Frequency measurement 0.01 Hz...50 kHz

Safety cert.:

approx. 23 mm Jaw opening 2 x battery 1.5 V, IEC LR6 183 x 64 x 36 mm Power supply Dimensions approx. 190 g Weight

Ordering Information:

Description Model Article no.

CHB15 93468-D 3454457 Safety set 370003 2146666

LCD, 3¾ digit, 3999 digits

± (2 % rdg. + 3 digits)

± (1 % rdg. + 2 digits)

DIN VDE 0411/EN 61010/

2 x battery 1.5 V, IEC LR6 183 x 64 x 36 mm

0.001...400 A

0.01...400 A ± (2 % rdg. + 2 digits)

40 Hz ... 1kHz

IEC 61010

approx. 23 mm

approx. 190 g

<4

Frequency measurement 0.01 Hz... 9.99 kHz

Measurement category CAT II/600 V

Technical specifications

Display

Ranges

range

Current AC

Current DC

Crest factor

Safety cert.:

Jaw opening

Power supply Dimensions Weight

Basic accuracy

Pollution degree

Basic accuracy

Basic accuracy AC frequency















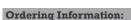




Included:

- 1 x CHB35
- 2 x battery 1.5 V, IEC LR6
- 1 x carrying case 1 x user manual

Basic accuracy ± (2 % rdg. + 2 digits) Frequency range for 40 Hz...1 kHz ± (2 % rdg. + 2 digits) Basic accuracy ± (1 % rdg. + 2 digits) Pollution degree Measurement category CAT II/600 V DIN VDE 0411/EN 61010/ IEC 61010



Description Model Article no.

93469-D CHB35 3454469

CHB15

Continuity beeper

• Frequency verification

Manual range selection

• Additional bar graph display

Product information

Jaw opening 23 mm

Product highlights

solar technology.

Current clamp (AC/DC)

• Current, voltage and resistance measurement

• Integrated measurement memory (data hold)

AC/DC clamps are also suitable for automotive

applications, emergency power supplies and

• MIN/MAX and relative value measurement





Data

Hold











1000 V

AC/DC



99kΩ





Included:

- 1 x ACD-50NAV
- 2 x test leads
- 1 x battery 9 V, IEC 6F22
- 1 x carrying case
- 1 x user manual

ACD-50NAV

CAT IV Navigator™ power clamp meter 600 A (AC) TRMS

Functions

- Current, voltage and resistance measurement
- Continuity beeper
- Capacitance and frequency measurement
- Measurement of active power
- Measuring the power factor cos φ
- Harmonics measurement for current and voltage values (up to the 25th harmonic)
- Measurement of total harmonic distortion (THD)
- Measurement of inrush current for motors

Product information

- Automatic and manual range selection
- Integrated measurement memory (MIN/MAX and Data Hold)
- Peak value memory (Peak Hold)
- Rotary field measurement
- Low pass filter for measurement of frequency converters
- · Large digit display with backlit display and analog bar graph
- Jaw opening 37 mm
- Auto Power Off

Product highlights

- AC/DC true RMS measurement (TRMS)
- · Automatic flashlight function on opening the
- Non-contact voltage detection
- Functions can be selected via a joystick



Accessories:

Safety set Model 370003

Ordering Information:

Technical specifications

Display Ranges

Current AC

Voltage AC

DC voltage

Basic accuracy

Frequency range

Basic accuracy

Basic accuracy

Active power

total harmonic distortion

Capacitance measurement

Harmonics

Resistance

Continuity

Safety cert.

Jaw opening

Power supply

Dimensions

Weight

Basic accuracy

Pollution degree

cos ϕ

(THD)

Frequency range

LCD, 3¾ digit, 4000 digits

 $\pm (1.5 \% \text{ rdg.} + 5 \text{ digits})$

 \pm (1 % rdg. + 5 digits)

±(0.7 % rdg. + 2 digits)

-1.00...0.00...+1.00

± (1 % rdg. + 3 digits)

DIN VDE 0411/EN 61010/

1 x battery 9 V, IEC 6F22

approx. 260 x 80 x 40 mm

0.01...4000 μF

0.01...600 A

50 Hz...400 Hz

50 Hz...500 Hz

0.01...1000 V

0...600.0 kW

Up to 25th

0,1...100 %

 $R < 30 \Omega$

Measurement category CAT IV / 600 V, CAT III / 1000 V

IEC 61010

approx. 37 mm

approx. 480 g

Frequency measurement20.00...9,999 kHz

1Ω...99.99 kΩ

0.01...1000 V

Description Model Article no.

ACD-50NAV ACD-50NAV 3729945 Safety set 370003 2146666

ACDC-52NAV

CAT IV Navigator™ power clamp meter 600 A (AC/DC) TRMS

- Current, voltage and resistance measurement
- Continuity beeper
- · Capacitance and frequency measurement
- Measurement of active power
- Measuring the power factor $\cos \varphi$
- Harmonics measurement for current and voltage values (up to the 25th harmonic)
- Measurement of total harmonic distortion (THD)
- Measurement of inrush current for motors

Product information

- Automatic and manual range selection
- Integrated measurement memory (MIN/MAX and Data Hold)
- Peak value memory (Peak Hold)
- Rotary field measurement
- Low pass filter for measurement of frequency converters
- Large digit display with backlit display and analog bar graph
- Jaw opening 42 mm
- Auto Power Off

Filter\

Product highlights

- AC/DC true RMS measurement (TRMS)
- · Automatic flashlight function on opening the iaws
- Non-contact voltage detection
- Functions can be selected via a jovstick



Accessories:

Safety set Model 370003

Technical specifications

Display LCD, 3¾ digit, 4000 digits

Ranges

Current AC 0.01...600 A \pm (1.5 % rdg. + 5 digits) Basic accuracy Frequency range 50 Hz...400 Hz Current DC 0.01...600 A Basic accuracy \pm (1.5 % rdg. + 5 digits) Voltage AC 0.01...1000 V ±(1 % rdg. + 5 digits) 50 Hz...500 Hz Basic accuracy Frequency range DC voltage 0.01...1000 V ±(0.7 % rdg. + 2 digits) 0...600.0 kW Basic accuracy Active power

Harmonics Up to 25th total harmonic distortion

cos φ

Dimensions

(THD) 0,1...100 % 1Ω...99.99 kΩ Resistance Basic accuracy \pm (1 % rdg. + 3 digits) $R < 30 \Omega$ Continuity

Frequency measurement20.00...9,999 kHz Capacitance measurement

 $0.01...4000~\mu F$ Pollution degree Measurement category CAT IV / 600V, CAT III / 1000 V

-1.00...0.00...+1.00

approx. 260 x 80 x 40 mm

DIN VDE 0411/EN 61010/ Safety cert. IEC 61010 Jaw opening approx, 42 mm 1 x battery 9 V, IEC 6F22 Power supply

Weight approx. 480 q

Ordering Information:

Description Model Article no. ACDC-52NAV 3729961

ACDC-52NAV Safety set 370003 2146666



CAT III

1000 V

Data

Hold

CAT IV

600 V

True

RMS

600 A

AC/DC

Hz

1000 V

AC/DC

1 x ACDC-52NAV

2 x test leads

1 x battery 9 V, IEC 6F22

1 x carrying case

1 x user manual



LCD, 3¾ digit, 4000 digits

 \pm (1.5 % rdg. + 5 digits)

±(1.5 % rdg. + 5 digits)

±(1 % rdg. + 5 digits)

±(0.7 % rdg. + 2 digits)

-1.00...0.00...+1.00

 \pm (1 % rdg. + 3 digits)

CAT IV / 600V, CAT III / 1000 V

DIN VDE 0411/EN 61010/

approx. 260 x 80 x 40 mm

Article no.

3729989

2146666

0.01...1000 A

50 Hz...400 Hz

0.01...1000 A

0.01...1000 V

50 Hz...500 Hz

0.01...1000 V

0...999.9 kW

Up to 25th

0,1...100 %

 $R < 30 \Omega$

Frequency measurement20.00...9,999 kHz

1Ω...99.99 kΩ

0.01...4000 μF

-50...1000°C

IFC 61010

approx. 42 mm 1 x battery 9 V, IEC 6F22

approx. 480 g

Model

370003

ACD-54NAV

Technical specifications

Display Ranges

Current AC

Basic accuracy

Basic accuracy

Basic accuracy

Basic accuracy

Active power cos φ

Harmonics

Resistance

Continuity

Capacitance

measurement

Temperature

measurement

Safety cert.

Jaw opening

Power supply

Description

ACD-54NAV

Safety set

Dimensions

Weight

Pollution degree

Measurement category

Ordering Information:

Basic accuracy

(THD)

Frequency range

total harmonic distortion

Voltage AC

DC voltage

Frequency range Current DC





Data

Hold

Included:

1 x ACDC-54NAV

1 x carrying case 1 x user manual

1 x temperature probe

1 x battery 9 V, IEC 6F22

2 x test leads



min/ma:







1000 V

99 kΩ

Filter\







ACDC-54NAV

CAT IV Navigator™ power clamp meter 1000 A (AC/DC) TRMS

Functions

- Current, voltage and resistance measurement
- Continuity beeper
- Capacitance and frequency measurement
- Temperature measurement
- Measurement of active power
- Measuring the power factor $\cos \varphi$
- · Harmonics measurement for current and voltage values (up to the 25th harmonic)
- Measurement of total harmonic distortion (THD)
- Measurement of inrush current for motors

Product information

- Automatic and manual range selection
- Integrated measurement memory (MIN/MAX and Data Hold)
- Peak value memory (Peak Hold)
- Rotary field measurement
- Low pass filter for measurement of frequency converters
- Large digit display with backlit display and analog bar graph
- Jaw opening 42 mm
- Auto Power Off

Product highlights

- AC/DC true RMS measurement (TRMS)
- Automatic flashlight function on opening the iaws
- Non-contact voltage detection
- Functions can be selected via a joystick



Accessories:

Safety set Model 370003



Technical specifications

Display LCD, 3¾ digit, 6600 digits Ranges

Current AC 0.1...1000 A ± (2 % rdg. + 10 digits) Basic accuracy Frequency range 50 Hz...1 kHz Current DC 0.1...1000 A

Basic accuracy ± (2 % rdg. +5 digits) AC voltage 0.1 mV...750 V Basic accuracy ± (1.5 % rdg. + 8 digits) Frequency range 50 Hz...1 kHz

DC voltage 0.1 mV...1000 V Basic accuracy ± (0.5% rdg. + 2 digits) Continuity $R < 30 \Omega$ 0.1 Ω...66.00 ΜΩ Resistance ± (1 % rdg. +5 digits) Basic accuracy Frequency measurement0.01 Hz...1.000 MHz 0.001 nF...6.6 mF Capacitance Duty cycle function 5.0 %...95.0 %

Pollution degree Measurement

CAT IV 600 V, CAT III 1000 V categories Safety cert.: EN 61010/IEC 61010 Jaw opening approx. 51 mm 1 x battery 9 V, IEC 6F22 281 x 105 x 53 mm Power supply Dimensions Weight approx. 560 g

CAT III CAT IV 1000 A 750 V 1000 V 600 V AC/DC AC/DC **Peak** True Data Hold Hold

Included:

1 x ACDC-3400 IND

2 x test leads

1 x battery 9 V, IEC 6F22

1 x carrying case

1 x user manual

ACDC-3400 IND

CAT IV TRMS clamp meter for industrial applications up to 1000 A (AC/DC)

Functions

- Current, voltage and resistance measurement
- · Continuity beeper
- Frequency verification
- Capacitance measurement
- Peak value measurement
- Duty cycle function

Product information

- Automatic and manual range selection
- Integrated measurement memory (Data hold and Peak hold)
- Additional bar graph display
- Illuminated display
- Auto Power Off
- Relative measurement • Jaw opening: 51 mm

Product highlights

• True RMS measurement (TRMS)

Accessories:

Safety set Model 370003



Test lead set with crocodile clips Model TL36A

Clamp meters | Leakage current clamp meters (AC)













•))







min/max

- 2 x test leads

- 1 x user manual

AC50A

Digital leakage current clamp

Functions

- Leakage current measurement
- Voltage and resistance measurement
- Continuity test with beeper

Product information

- Manual range selection
- Integrated measurement memory (data hold)
- MIN/MAX and relative value measurement
- Additional bar graph display
- Jaw opening 30 mm
- Auto Power Off

Product highlights

- Minimum resolution: 0.01 mA
- · Range of applications: Measurement of leakage currents, e.g. stray or residual currents, current consumption of units in service or customer service sector without interruption to circuit

Technical specifications

LCD, 3¾ digit, 3999 digits Display

 \pm (2 % rdg. + 4 digits)

Ranges Current AC 0.01 mA...60 A Tolerance ±(1.5 % rdg. + 5 digits) Voltage AC 0.1...400 V

Tolerance Frequency range for

AC current/ voltage

40 Hz...1 kHz Input resistance 10 MΩ

Tolerance

Resistance 0.1...400 Ω ±(1 % rdg. + 2 digits) Tolerance

Continuity R<40 Ω Pollution degree

Measurement category CAT II/600 V

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010 approx. 30 mm

Jaw opening 2 x battery 1.5 V, IEC LR6 Power supply 210 x 62 x 36 mm Dimensions approx. 230 g Weight

Included:

- 1 x AC50A
- 2 x battery 1.5 V, IEC LR6
- 1 x carrying case



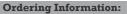
Accessories:

Adapters for stray current measurements: Schuko/Schuko* Model 1233



CEE 5-pole 16 A Model 1235

CEE 5-pole 32 A Model 1236



Description Article no. AC50A AC50A 3033017 AC50A AC50A-D* 3454543

D* is German version

Test adapter:

Schuko/Schuko* 1233 2145900 CEE 5-pin 16 A 1235 2145921 CEE 5-pin 32 A 1236 2145939

* only for countries with Schuko plug































Included:

- 1 x CHB5
- 2 x test leads
- 2 x battery 1.5 V, IEC LR6 1 x carrying case
- 1 x user manual

CHB5

Digital leakage current clamp with harmonics measurement TRMS (AC)

Functions

- Leakage test
- Stray current measurement (leakage current measurement) TRMS
- Voltage measurement (TRMS)
- Frequency verification
- · Harmonics measurement for current and voltage values (up to 99th harmonic)

Product information

- Integrated measurement memory (data hold)
- MIN/MAX value measurement
- Jaw opening 30 mm
- Auto Power Off

Product highlights

- Minimum resolution: 0.01 mA
- Harmonics measurement
- Range of applications: Measurement of leakage currents, e.g. stray or residual currents, current consumption of units in service or customer service sector without interruption to circuit



Accessories:

Adapters for stray current measurements: Schuko/Schuko* Model 1233



CEE 5-pole 16 A Model 1235

CEE 5-pole 32 A Model 1236

* only for countries with Schuko plug

Technical specifications

Display LCD, 4 digit, 9999 digits

Ranges

Weight

Current AC 0.5 mA...50 A ±(1.5 % rdg. + 5 digits) Basic accuracy Voltage AC 0.1...600 V

±(0.5 % rdg. + 5 digits)

Basic accuracy Frequency range for

AC current/ voltage 45 Hz...1 kHz Input resistance 10 MΩ Frequency measurement45...65 Hz ±(0.2 Hz) Basic accuracy display up to 99th Harmonics 1.00...99.99 Crest factor measurement ±(5 % rdg. + 30 digits) Basic accuracy Pollution degree

Measurement category CAT II/600 V, CAT III/300 V DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010 Jaw opening approx. 30 mm 2 x battery 1.5 V, IEC L 6 Power supply **Dimensions** 210 x 62 x 36 mm

approx. 200 g

rticle no.

3313218

Ordering inform	iation.	
Description	Model	Δ
CHB5	93570	

Ordering Information

Measurement adapter: Schuko/Schuko* 1233 2145900 CEE 5-pole 16 A 1235 2145921 CEE 5-pole 32 A 1236 2145939

Clamp meters (AC/DC) and current clamp adapters BEHA-AMPROBE





300 V









LH41A

Digital current clamp (AC/DC)

Functions

• Current measurement from 1 mA AC and DC

Product information

- Manual range selection
- Jaw opening 19 mm
- Automatic zero-point (DC measurement range)
- Integrated 5 s measurement memory (data hold)
- Auto Power Off

Product highlights

- Minimum resolution: 1 mA
- Shielded against external interference

Technical specifications

LCD, 4 digit, 4000 digits Display

Ranges Current AC/DC 0.001...40 A

Basic accuracy ±(1.3 % rdg. + 5 digits) Frequency range 40...400 Hz

Pollution degree

Measurement category CAT III / 300 V

Safety cert.: DIN VDE 0411/EN 61010/

IEC 61010 Jaw opening approx. 19 mm

1 x battery 9 V, IEC 6LR61 Power supply Dimensions 184 x 71 x 31 mm approx. 235 g Weight

Included:

- 1 x I H41A
- 1 x battery 9 V, IEC 6LR61
- 1 x user manual

Ordering Information:

Description Model Article no.

3030898

Ι ΗΔ1Δ Ι ΗΔ1Δ

300 V AC/DC

CAT III

300 V

200 A

AC/DC

CT235A

Current clamp adapter (AC/DC)

 Clamp adapter for extending the AC and DC ranges of multimeters up to 1000 A AC/DC

Product information

- Can be used with all common multimeters; also compatible with TRUE RMS multimeters and analogue recorders
- Output Signal: 1 mV corresponds to 1 A test current
- Jaw opening 32 mm
- Fixed test leads
- Zero adjustment

Technical specifications

Ranges

Current AC/DC 200 A, 1000 A Basic accuracy \pm (1 % + 0.5 A) 1mV/A Output voltage

AC frequency range: 50 Hz ... 10 kHz Pollution degree

Measurement category CAT III/300 V

Safety cert.: DIN VDE 0411/EN 61010/

IEC 61010 approx. 32 mm

Jaw opening Length of connection

cable approx. 1.5 m

1 x battery 9 V, IEC 6F22 Power supply approx. 195 x 70 x 30 mm **Dimensions**

Weight approx. 300 g

Included:

- 1 x CT235A
- 1 x battery 9 V, IEC 6F22
- 1 x user manual

Ordering Information:

Description Model Article no.

CT235A CT235A 3026809

CT237B

Current clamp adapter (AC/DC)

• Clamp adapter for extending the AC and DC ranges of multimeters up to 200 A AC/DC

- Can be used with all common multimeters; also compatible with TRUE RMS multimeters and analogue recorders
- test current
- Zero adjustment

Product information

- Output Signal: 10 mV corresponds to 1 A
- Jaw opening 20 mm
- Fixed test leads

Included:

- 1 x CT237B
- 1 x battery 9 V, IEC 6F22
- 1 x user manual

Technical specifications

Ranges

Current AC/DC 20 A, 200 A $\pm (1.2 \% + 0.03 A)$ Basic accuracy 10 mV/A Output voltage

(20 A measurement range)

1 mV/A

(200 A measurement range)

AC frequency

50 Hz ... 1 kHz Pollution degree Measurement category CAT III/300 V

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010

approx. 20 mm Jaw opening 1 x battery 9 V, IEC 6F22 Power supply

Length of connection

cable approx. 1.5 m

Dimensions approx. 185 x 70 x 30 mm

approx. 280 g Weight

Ordering Information:

Description Model Article no.

3511514 CT237B CT237B

Measurement and test equipment in accordance with (inter)national standards



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Measurement and test equipment in accordance with DIN/VDE and EN 61557 are used to check electrical safety in order to establish safety for people and objects. Our measurement and test equipment is divided into three groups in accordance with the tests that are to be performed:

- Testing electric machines (stationary) in accordance with DIN VDE 0100/0105 and EN 61557
- Testing electric equipment (portable) in accordance with DIN VDE 0701-0702 and EN 61557
- Testing electric machines in accordance with DIN VDE 0113 and EN 61557

This equipment was developed in accordance with the user's requirements and standards in order to carry out tests in a fast, simple, and safe manner.

Most of our measurement and test equipment also provide an integrated measurement memory for creating a measurement report to make logging along with our software packages much more effective.

See our full line of UK specific single and multifunction testers at beha-amprobe.com

Symbols used in this chapter

Low	Low ohm measurement	IA	Leakage test
Rs	Measurement of loop resistance	IB	Measurement of touch current
Ri	Measurement of internal resistance	Optional Software	Software optionally available
RCD / FI	Trip test for residual current circuit breakers (RCD/FI)	Measurement Memory	Internal measurement memory
RE	Earth Ground Testing	HS- high-voltage testing	High-voltage testing
RCD-Test	RCD-FI test with increasing test current	no battery	No battery needed
≥	Adjustable curve form of test current (RCD/FI)	LCD	Display with LCD
Timer	Adjustable test time	socket test	Integrated socket test with contact electrode
PC	PC interface	(h)	Touch screen
SD	Uses SD card memory storage	AUTO TEST	Automatic test sequence
TYP B RCD-Test	Testing of AC/DC-sensitive RCD/FI	BARCODE	Connection for barcode scanner
PRCD	Testing of portable residual current circuit breakers (PRCD)	EXTERNAL current clamp	Connection of an external current clamp







KMP7010

Ground Resistance Tester according to B\$7671 IEE 17th Edition regulations

Functions

- Measures Earth ground resistance
- Measure resistance of the grounding systems to verify that the system has low enough resistance to provide protection for people, equipment and structures

Product information

- Measures Earth ground resistance
 3 point (fall of potential) or 2 point tests
- Voltage measurement prevents false measurements
- Built-in memory to store 20 measurements
- Safety CAT III 600V

Product highlights

- Designed to allow testing to BS7671 IEE 17th Edition regulations, BS EN 61010-1 BS EN 61557-1, BS EN 61557-5, BS EN 61326-1 (EMC)
- Test leads, auxiliary electrodes are included for a complete instrument

Technical specifications

(At 23°C \pm 5°C. 45% to 75% RH)

Operating Temperature +5°C to + Storage Temperature -20°C to +

+5°C to +40°C. ≤80% RH, no condensation -20°C to +60°C. ≤90% RH, no condensation

(without batteries)

Power Supply
Dimensions (L x W x H)
Product Weight
Regulation Compliance

1.5V Alkaline Battery (AA Battery) x 6 pcs 160 x 101 x 71 mm (6.3 x 3.98 x 2.79 in) Approx. 500g (1.1 lb) with batteries installed Designed to allow testing to BS7671

IEE 17th Edition regulations BS EN 61010-1 CAT III 400V BS EN 61557-1. BS EN 61557-5 BS EN 61326-1 (EMC)

Included:

- 1 Pc. Test lead set for 3 point test
- 1 Pc. Auxiliary ground rods
- 1 Pc. Test lead set for 2 point test
- 1 Pc. Batteries (6 x AA)
- 1 Pc. User's manual
- 1 Pc. Strap and carrying case

Accessories:

Description Model Article no
Single function KP1700 4160759
tester kit carry bag





KMP7021

Digital RCD Tester according to BS7671 IEE 17th Edition regulations

Functions

Designed to check for correct operation of RCD devices

Product information

- Three levels of trip currents (x1/2, x1, x5) for complete range of testing applications: Fast Trip Function and Ramp Test
- Phase switch selection 0° and 180° for positive and negative semi-cycle testing
- Large display
- Safety CAT III 300 V

Product highlights

- 3-LED proper connection indicator Displays mains voltage before test
- Designed to allow testing to BS7671 IEE 17th Edition regulations, BS EN 61010-1 CAT III 300V, BS EN 61557-1, BS EN 61557-3, BS EN 61326-1 (EMC)

Technical specifications

Specifications (At 23°C \pm 5°C. 45% to 75% RH)

 Operating Voltage
 230Vac, 50 Hz
 +10% to -15%

 Trip current @ X½
 10/20/30/100/300/500mA (trip time 0 to 2000ms)
 Trip current tolerance: -10% to +10% Trip time: ± (2% rdg + 2 LSD)

 (trip time 0 to 300ms)
 Trip time: ± (2% rdg + 2 LSD)

 Trip current @ X5
 10/20/30mA (trip time 0 to 40ms)
 Trip current tolerance: 0% to +10%

Trip time: ± (2% rdg + 2 LSD)
Fast Trip Current 250mA (trip time 0 to 40ms) Trip current tolerance:
(KMP7021) 0% to +10%

(KMF7021) 0% to +10% Trip time: ± (2% rdg + 2 LSD)

Ramp Test (KMP7021) 10/20/30/100/300/500mA -10% to +10%

Ramp lest (KMP7021) 10/20/30/100/300/300/MA -10% to +10% Ramp increase by 10%

Default nominal residual currents from 20% to 110% Maximum measuring time 300ms x 10 times

Operating Temperature +0°C to +40°C. ≤80% RH, no condensation

Storage Temperature Power Supply AC mains 230V + 10% - 15%, 50 Hz
Dimensions (L x W x H) 160 × 101 x 71 mm (6. 1 x 3 x 3.98 x 2.79 in)
Product Weight Approx. 450g (0.99 lb)
Regulation Compliance Possible 100 × 101 x 101 mm (1.00 × 1

Designed to allow testing to BS7671 IEE 17th Edition regulations BS EN 61010-1 CAT III 300 BS EN 61557-1. BS EN 61557-6 BS EN 61326-1 (EMC)

Included:

- 1 Pc. 3-Wires mains test cord
- 1 Pc. Test lead set with leads/probes/alligator clips
- 1 Pc. User manual
- 1 Pc. Strap and carrying case

Accessories:

Description Model Article no Standard test lead set SL7030 4160744 for KMP7030 Single function KP1700 4160759 tester kit carry bag

^{*} Products are only available in UK

Earth ground testing





KMP7030

Loop Impedance Tester according to BS7671 IEE 17th Edition regulations

Functions

- Non Trip Loop test
- Loop testing is a quick, convenient, and highly specific method of evaluating an electrical circuit for its ability to engage protective devices (circuit breakers, fuses, RCDs)
- A ground loop determines the effectiveness of protective devices, therefore it is crucial to be able to measure it, in order to detect and correct problems

Product information

- Fast testing
- Instant reading
- Loop measurement ranges: 20, 200 & 2000Ω
- PSC measurement up to 20kA
- Backlight display
- Low Battery Indication
- CAT III 300V

Product highlights

- Displays mains voltage before test
- Instant correct wiring status check
- Designed to allow testing to BS7671 IEE 17th Edition regulations, BS EN 61010-1 CAT III 300V, BS EN 61557-1, BS EN 61557-3, BS EN 61326-1 (EMC)

Technical specifications Specifications (At 23°C ± 5°C, 45% to 75% RH)

Operating Voltage 230Vac, 45Hz ~ 65 Hz +10% to -15% Loop Impedance $20/200/2000\Omega$ $0 \sim 19.99 / 199.9 / 1999 \Omega$ \pm (3% rdg + 4 LSD)

AC Test Current 25A Nominal at 20Ω AC Test Period 10ms at 20Ω

No Trip Loop Impedance 0 \sim 19.99 / 199.9 Ω 20 / 200 Ω (L - N im-pedance > 20 Ω) \pm (3% rda + 6 LSD)

PSC accuracy derived from measured loop impedance spec-ification and measured voltage specification PSC Measurement 200A / 2000A / 20kA 0.0 ~ 1999.9 / 1999 / 19.9kA

± (2% rdg + 4 LSD) @ 50/60Hz Voltage Measurement 100Vac ~ 300Vac

Operating Temperature 0°C to +40°C. ≤85% RH, no condensation Storage Temperature Power Supply Dimensions (L x W x H) Product Weight Approx. 450g (0.99 lb)

20°C to +60°C. ≤90% RH, no condensation (without batteries) 1.5V Alkaline Battery (AA Battery) x 8 pcs 189 x 168 x 85 mm (7.43 x 6.65 x 3.35 in)

Regulation Compliance Designed to allow testing to BS7671 IEE 17th Edition regulations BS EN 61010-1 CAT III 300V BS EN 61557-1. BS EN 61557-3 BS EN 61326-1 (EMC)

Included:

1 Pc. Mains test cord 1 Pc. Alligator clip set 1 Pc. Test lead set with 1 Pc. batteries (8 x AA) IEC connector 1 Pc. user manual

1 Pc. Test probe set, 1 Pc. strap and carrying case

Accessories:

Description Model Article no Standard test lead set SL7030 4160744 for KMP7030

Single function KP1700 4160759

tester kit carry bag

KMP7036

Insulation-Continuity Tester according **BS7671 IEE 17th Edition** regulations

Functions

 Tests insulation of wires, cables, transformers and electrical motors

Product information

- Selectable test voltages 250V, 500V and 1000V
- Test button hold to perform the Dielectric Absorption Ratio Test
- Continuity test at 200mA short-circuit
- Built in voltmeter and red light warning for live circuit indication
- Automatic discharge of test object after completion of measurement
- Test lead resistance zero facility
- Safety CAT III 600V

Product highlights

- Designed to diagnose the breakdown of the insulation in various parts of the electrical system such as wires, transformers and motors
- Three testing voltages covering wide range of commercial and residential applications
- The quality of insulation is critical to assure proper, uninterrupted and safe functioning of electrical circuits
- Designed to allow testing to BS7671 IEE 17th Edition regulations BS EN 61010-1 CAT III 600V, BS EN 61557-1 / -2 / -4 / -10, BS EN 61326-1 (EMC)

Technical specifications

Specifications (At 23°C ± 5°C, 45% to 75% RH)

Insulation Resistance $0.00M\Omega \sim 4.99M\Omega$ @ 250V/500/1000V $\begin{array}{l} 5.0 M\Omega \sim 49.9 M\Omega \\ 50 M\Omega \sim 999 \Omega \end{array}$ (Test Current ≥1mA) 1.00GΩ ~ 1.99GΩ

 $0.00M\Omega \sim 99.9M\Omega$ ± (5% rdg + 5 LSD) for $100M\Omega \sim 1.99G\Omega$ (Buzzer threshold: 4MΩ) ± (2% rdg + 3 LSD) @ 50/ 60 Hz

(Nominal)

Storage Temperature Power Supply Product Weight Regulation Compliance

Operating Temperature 0°C to +35°C. ≤75% RH, no condensation -20°C to +60°C. ≤80% RH, no condensation (without batteries) 1.5V Alkaline Battery (AA Battery) x 6 pcs

± (3% rdg + 5 LSD) for

160 x 101 x 71 mm (6.3 x 3.98 x 2.79 in) Approx. 450g (0.99 lb) with batteries installed Designed to allow testing to BS7671

IEE 17th Edition regulations BS EN 61010-1 CAT III 600V BS EN 61557-1 / -2 / -4 / -10 BS EN 61326-1 (EMC)

Included:

2 Pc. Test leads 1 Pc. batteries (6 x AA) 2 Pc. Test probes 1 Pc. user's manual 2 Pc. alligator clips 1 Pc. carrying case and strap

Accessories:

Description Model Article no Single function KP1700 4160759 tester kit carry bag

Ordering Information:

Description Model Article no. KPM7010 KPM7010* 3730256 KPM7021 KPM7021* 3730301 KPM7030 KPM7030* 3842833 KPM7036 KPM7036* 3730274



^{*} Products are only available in UK































TELARIS®

ProInstall-100

Combined installation measurement equipment

Functions

- Measurement of loop resistance
- Measurement of internal network resistance
- Measurement of short circuit current
- Low resistance and continuity measurement
- Insulation test
- RCD/FI measurement (contact voltage, trip time, trip current - increasing current)
- · Voltage and frequency measurement

Product information

- Memory for approx. 400 readings with 3 levels for assignment of distribution list numbers and circuit numbers
- IR/USB interface for transferring the stored measurement values to a PC
- · Software for logging is optionally available for printing out a test report
- Integrated socket test with contact electrode for identification of incorrectly connected sockets or missing protective earth
- Easy-to-read, large LC display with back lighting and an especially large viewing angle
- Auto Power Off

Product highlights

- Compact, robust construction enables work to take place even in harsh environments (weighs only 1500g)
- A simple to use and intuitive user interface enables you to work immediately and efficiently
- Probe with test button
- Measurement of loop resistance and short circuit current without tripping RCD/FI

TELARIS® ProInstall-200

Combined installation measurement equipment

as the ProInstall-100, also with:

- Testing of AC/DC-sensitive RCD/FI (type B)
- Memory for approx. 1000 readings
- Earth measurement (optionally with probes)
- RCD/FI analysis for testing all RCD/FI parameters

Technical specifications

LCD, 4 digit, 9999 digits

Measurement range/resolution

Voltage 50...500 V/1V AC Frequency 45.0...65.0 Hz/0.1 Hz Loop resistance 0.15...20/200/200 Ω 0.01/0.1/1 Ω

Short circuit current 0...10 kA

Input voltage 100...500 V 50/60 Hz range Test current approx. 7 A (at 230 V) Internal network

0.15...20/200/200 Ω resistance 0.01/0.1/1 Ω

Short circuit current 0...10 kA Input voltage

100...500 V 50/60 Hz range Test current approx. 7 A (at 230 V) approx. 5 mA (at 230 V)

Insulation resistance .1000 MΩ 0.01/ 0.1/1 MΩ 100, 250, 500, 1000 V DC 0.05...20/200/2000 Ω Test voltage Low ohm measurement

0.01/0.1/1 Ω Test current > 200 mA DC RCD/FI rated residual

currents-10, 30, 100, 300, 500, 1000 mA Factors: x1/2, x1, x5 and AUTO Standard AC, selective, pulsating, RCD/FI types:

B-type (only ProInstall-200)

Measurement functions contact voltage, trip time, trip current test with rising test current

Contact voltage 0...50 V Trip time 1...510 ms/1 ms 30...110% of I_{DN} (in 10% increments) Trip current

Phase rotation test Input voltage

100...500 V 50/60 Hz range Earth resistance 0.05...200 Ω / 2000 Ω Probe resistance $0.1...52~k\Omega$

approx. 3.5 mA Max. measurement current

approx. 25 V Measurement voltage 128 Hz/140 Hz Frequency

Overall

Measurement memory approx. 400 to 1000 measurement

values Interface

IR/USB

DIN VDF 0411/FN61010/ Safety cert.: IEC61010 DIN VDE 0413/

EN61557/IEC61557 CAT III/500 V, CAT IV/300 V Measurement category

Pollution degree Protection category IP 40

6 x battery 1.5 V, IEC LR6 Power supply 110 × 260 × 130 mm **Dimensions** approx. 1500g (incl. batteries Weight

1000















voltage

250 V





voltage

500 V

PC





Rs





Included:

- 1 x ProInstall-100 or 200
- 3 x test leads
- 3 x crocodile clips
- 3 x probes
- 1 x probe with test button
- 1 x protective holster (integrated)
- 1 x hanging strap
- 1 x carrying case
- 6 x battery 1.5 V, IEC LR6
- 1 x quick start guide 1 x user manual on CD-ROM
- 1 x Schuko input line cord

Recommended Accessories

Earth testing set	TL-EARTH	4388671
USB download cable	TL-USB	4372676
es control 0100	1312	2390062
Beha-Amprobe	DL-SW-KIT	4597359
downloader softwar	e with cable	

Ordering Information:

Description	Model	Article no.
ProInstall-100-D	ProInstall-100-D	4373971
ProInstall-100-DK	ProInstall-100-DK	4399247
ProInstall-200-D	ProInstall-200-D	4373980
ProInstall-100-CH	ProInstall-100-CH	4374484
ProInstall-200-CH	ProInstall-200-CH	4374491
ProInstall-100-EUR	ProInstall-100-EUF	R 4374504
ProInstall-200-EUR	ProInstall-200-EUF	R 4374519
ProInstall-75-UK*	ProInstall-75-UK	4826466
Please check which	model is relevant	for your
country:		
D version for Germ	any, Austria only	
DK version for Den	mark only	
CH version for Swit	zerland only	

UK version for UK/Ireland only EUR version for other EU countries except for

UK, Germany, Austria, Switzerland and Denmark. Additional accessories can be found at the end of the chapter

* ProInstall-75-UK is not shown in this catalog, for information please visit our website beha-amprobe.com. Check for availability for your country with your local distributor.

Earth ground testing









DGC-1000 A

Clamp meter for earth loop measurement

Functions

- Earth loop measurement range: 0.025–1500 Ω
- Stray current measurement range 0.2...1000 mA
- Current measurement range: 0.2-30 A

Product information

- · Measurement memory for 116 readings
- Recording interval 1...255 s
- Limit adjustment with alarm function
- Data hold function
- Jaw opening 23 mm
- Calibration loop included

Product highlights

- Earth measurement in closed earthing systems without setting of earth stakes
- TRMS current measurement

Included:

- 1 x DGC-1000A
- 1 x battery 9 V, IEC LR6
- 1 x user manual
- 1 x calibration loop
- 1 x case

Technical specifications

Display LCD, 4 digit, 9999 digits

Display ranges/ Resolution Earth resistance

0.025 ...1500 Ω

Stray current 0.2...1.000/10.00/100.0/1000mA

0.001/0.01/0.1/1 mA Current 0.2 A...4.000 A/30 A 0.001/0.01 A

Measurement memory for 116 readings Recording interval 1 ... 255 s

Overall

Crest factor < 3 Pollution degree 2

 Measurement category
 CAT III/300 V, CAT II/600 V

 Safety cert.:
 DIN VDE 0411/IEC 61010

 Jaw opening
 approx. 23 mm

 Power supply
 1 x battery 9 V, IEC 6LR61

 Dimensions
 257 x 100 x 47 mm

 Weight
 approx. 640 g

Ordering Information:

Description Model Article no.

DGC-1000 A DGC-1000 A **2731217**

Earth loop measurement with a clamp meter

In the case of earthing systems with earths connected to each other that create a closed loop (e.g. the lightning protection system on a house), the earth resistance of every earth loop can be quickly and safely determined by means of a clamp meter for earth loop measurement (DGC-1000A).

The DGC-1000A clamp meter is a clamp with two current clamps in practical terms, which are installed within a housing. This clamp combines the two current clamps needed to perform the stakeless ground loop test in one compact and easy to use instrument.

A measurement current is induced in the earth loop with a current clamp, whilst the current running through the earth is measured with a second clamp in order to derive the resistance of the earth loop for the relevant earth.

















① Utility model 29822508.5

Schuko-Test FI/RCD

Socket tester with RCD/FI tripping

- Fast and effective testing of 30 mA RCD/FI
- Testing for correct/incorrect wiring
- Connection test for individual conductors (L-N-
- PE fault detection

Product information

- True PE fault detection via LCD and contact electrode
- Detection of wiring faults with classic protective earthing

Product highlights

• Clear and reliable indication of PE faults via LCD

Included:

- 1 x Schuko test FI/RCD
- 1 x user manual

Technical specifications

Nominal voltage 230 V AC ±10% Frequency range 50...60 Hz RCD/FI test current 30 mA RCD/FI test time < 300 ms

Contact voltage with break-off at monitoring

20...25 V AC/DC

PE fault detection Response threshold

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010

Measurement category CAT II/300 V

Pollution degree

Power supply from mains voltage 70 x 55 x 86 mm Dimensions Weight approx. 75 g

Ordering Information:

Description Model Article no. Schuko test FI/RCD 9080* 3530534

- * Packing unit of 10 items (also available individually)
- * Tester is available for countries with a Schuko plug only

Socket test

FI/RCD testers contain a display for testing the pin assignment specifically intended for testing an earthed socket.

With all RCD/FI testers, the contact voltage is monitored and any PE faults are clearly displayed.



Megohmmeters

voltage

250 V

voltage

100 V

voltage

500 V

1000 V

AC/DC



93530

Megohmmeter

Functions

- Insulation test
- Voltage measurement
- Resistance and continuity measurements with beeper

Product information

- Built-in measurement memory for 9 readings
- Lock function enables continuous operation
- · Zero adjustment with resistance measurement
- Backlit display
- Additional bar graph display

Technical specifications

Insulation resistance

Test voltage

Display LCD, 4 digit; 9999 digits Display range/resolution

0...999.9 kΩ/0.1kΩ, 9.999 MΩ/0.001 MΩ, 99.99 MΩ/0.01 MΩ, 999.9 MΩ/0.1 MΩ, 9.999 GΩ/0.001 GΩ (at >250V)

100, 250, 500, 1000 V

Test current >1 mA 0...600 V/1 V Continuity measurement $0...999.9 \Omega/0.1 \Omega$ (sound at $<40 \Omega$) Resistance measurement $0...9999 \Omega/1 \Omega$

Safety cert.: DIN VDE 0411/EN 61010/ IEC 61010, DIN VDE 0413, T. 2/

DIN VDE 0413, T. 2/ EN 61557-2/IEC 61557-2

Measurement category CAT III/600 V
Pollution degree 2

Power supply 6 x battery 1.5 V, IEC LR6
Dimensions 200 x 95 x 48 mm
Weight approx. 500 q



- 1 x insulation tester 93530
- 2 x test leads
- 1 x crocodile clip
- 1 x probe
- 1 x carrying case
- 6 x battery 1.5 V, IEC LR6
- 1 x user manual

Ordering Information:

 Description
 Model
 Article no.

 93530
 93530-D
 3454416

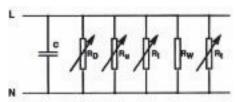
Things to know about insulation measurement:

One of the most important measurements of an electrical system is insulation measurement. It is the only measurement for fire and touch protection, amongst others. If electrical cables are energised then residual currents flow, which generate heat or electrolytic material migrations. If a limited residual current flows between two cables due to an insulation fault, then the current can lead to warming and in extreme cases to fire.

These residual currents are generally so small that preset protection systems such as RCD/FI protection systems or fuses do not detect them. The DIN VDE allows for a residual current with a heat output of 1mA/kW. The values that are measured in practice on a new unit are, however, considerably lower.

Insulation measurement is a measurement that does not require a mains connection and can therefore take place early, before, for example, a faulty wire is plastered in and where fault detection or elimination can be very demanding. If the readings are logged, then if a fault appears later on, it can be shown whether it was caused by other tradespeople involved with construction.

Insulation resistance is a complex form of resistance, comprising several different individual resistances and capacitances.



Replacement circuit diagram of the insulation resistor from L to N

The inflow from capacitor C is switched off when the measurement is carried out with direct current or direct voltage. In order to obtain a meaningful, comparable reading, the test voltages and the test currents are established so that the inflow of the current or voltage-dependent resistances (Ru, Ri) remain identical.

The resistance (RD) of the dielectric is affected by moisture and the time-dependent resistance (Rt) is affected by the aging of the materials used (Rw), which can lead to different results for readings at different times. Measurement of the insulation resistance must be carried out between every active conductor and earth upon initial testing.









Included:

- 1 x equipment tester GT-400
- 1 x measurement accessories set with safety test line, Safety crocodile clip and safety probe 6 x battery type AA
- 1 x IEC power cable 0.5m
- 1 x carry case
- 1 x user manual

GT-400

Portable equipment tester in accordance with UK code of **practice & DIN VDE 0701-0702**

Functions

- Measurement of protective earth resistance
- Insulation resistance measurement
- Measurement of protective earth and touch current (alternative stray current procedure)

Product information

- Automatic test sequence for equipment in protection class I, protection class II/III
- Automatic testing of extension cables, socket strips, and IEC cables
- Clear display via symbols in case of non-adherence to threshold values
- Preset threshold values in accordance with UK Code of Practice DIN VDE 0701-0702

Product highlights

- Battery-operated ideal for mobile use
- Suitable for trained people due to the Pass/Fail descriptive function
- Simple to use due to a rotary switch and start



Accessories:

Leakage current clamp AC50A



Measurement adapter Schuko/

Test report 0701-0702

Technical specifications

Graphic LCD

Measurement range Resolution Protective earth

0.10...2.00 Ω resistance Test current / voltage $> \pm 200$ mA DC / > 4 V Test current/voltage > 5 A / approx. 6 V AC Insulation resistance 0.1...20 MΩ Test current / voltage > 500 V DC / > 1 mA Equivalent stray current 0.1...20 mA approx. 32 V AC Test voltage

Overall limit value display

via symbols in LCD Safety cert.: DIN VDE 0404 DIN VDE 0411/EN 61010/

IEC 61010

DIN VDE 0413/EN 61557/

IEC 61557 CAT II/300 V Measurement category Pollution dearee

Protection class Protection category IP 40

6 x 1.5 V battery, IEC LR6 (AA) approx. 265 x 110 x 50 mm Power supply Dimensions (W*H*D)

Weight approx. 700g

Ordering Information:

Description Article no. GT-400-D GT-400-D 4380998 GT-400-CH GT-400-CH 4381001 GT-400-UK GT-400-UK 4381012 D version for Germany, Austria and all other

countries using the Schuko plug CH version for Switzerland only

UK version for UK only

Check for availability for your country with your local distributor.

Recommended accessories

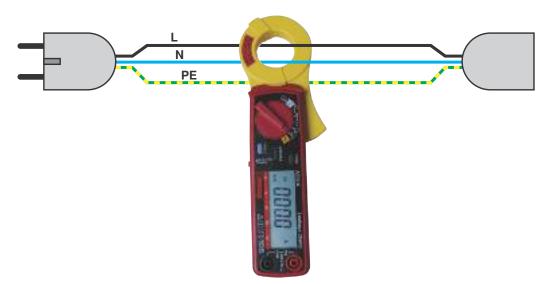
AC50A AC50A-D 3454543

Schuko test adapter 2145900 Test log 0701-0702 1279 3313435 Additional accessories can be found at the end

of the chapter

Application example for a leakage test under mains voltage:

Leakage current clamp AC50A and measurement adapter Schuko/Schuko 1233



Equipment tester in accordance with EN 61557











Included:

- 1 x GT-600 with accessory case (fixed to device lid, removable)
- 1 x test lead
- 1 x probe
- 1 x crocodile clip
- 1 x interface cable (USB)
- 1 x user manual

GT-600

Equipment tester in accordance with DIN VDE 0701-0702

Functions

- Measurement of protective earth resistance
- Insulation resistance measurement
- Measurement of equivalent stray current
- Measurement of protection earth current
- Measurement of touch current
- Performance measurement, load voltage, load current, power factor
- Direct testing of IEC cables without adapter device information

Product information

- Memory for approx. 3800 readings, real-time
- 3 memory levels (client, location, department)
- Integrated interface (USB 2.0) for transferring measurements to PC
- Separate interface (USB 2.0) for connecting a barcode scanner and keyboard
- Graphical LCD for measured values, limit values and parameters
- Wiring diagrams and limit values on device lid
- Simple operation with rotary switch
- Manual test sequence
- Clear display "Test OK/not OK"
- Test lead compensation
- Compact and robust carrying case
- Convenient software with
- "es control professional" database for logging purposes available (optional)

Product highlights

- 5-A and 0.2-A test current for protective earth resistance
- Differential current procedure for protective earth current
- Direct measuring procedure for touch current
- Fast safety and function check of IEC cables
- Connection for barcode scanner for reading in sample numbers and test sequences
- Suitable for trained people due to the good/bad descriptive function



Adapter cable ACF-6A

Technical specifications

graphical LCD, 128 x 64 pixels Display

Display ranges Protective earth resistance

 $0.01...10.0~\Omega$

Test current/voltage > 200 mA / approx. 6 V AC Test current/voltage > 5 A / approx. 6 V AC Insulation resistance $0.01...50~M\Omega$ Test current / voltage 500 V DC / > 1 mA

(250/500 V only GT-800) Equivalent stray current 0.25...20 mA

approx. 45 V AC / approx. 260 mA Test voltage / current Protective earth current 0.25...20 mA

(Differential current procedure)

Touch current 0.02...2 mA (Direct measurement procedure)

Apparent power 30 W...4.04 kVA Active power 30 W...4.04 kW Load voltage 195...253 V Load current 0...16 A Power factor 0...1

Voltage measurement SELV/PELV 10.0...150 V AC/DC

External

0.0 ... 20.0 mA current clamp input

0.2 ... 60.0 A, for clamp adapter

1000:1 (only GT-800)

Test functions of PRCD (only GT-800) Protective earth, insulation, function, protective earth current,

 $\frac{1}{2}x I_{\Lambda}N$, $1x I_{\Lambda}N$, $5x I_{\Lambda}N$, and RCD test: trip current (ramp) PRCD types 2-pole, 3-pole, and S-type

Mains fuse 2 x T16 A

Overall

Measurement memory 3800 measurement values, corre-

sponds to

approx. 260 meter measurements for PC Interface (USB 2.0)

Interface (USB 2.0) for barcode scanner and keyboard

Limit value display optical and acoustic Safety cert.: DIN VDE 0404 parts 1, 2,

DIN VDE 0411-1 / EN 61010-1 DIN VDE 0413/EN 61557 parts 2, 4

CAT II/300 V Measurement category

Protection category

230 V +10%/-15% 50/60 Hz Power supply Power consumption approx. 45 VA 300 x 250 x 130 mm Dimensions approx. 4.5 kg Weight

Ordering	IIIIOIIIIalioi	ă	ă
D			Ä

Model Article no. Description GT-600* GT-600 4151632

Recommended Accessories

Leakage current clamp

1311 adapter CHB1 2390055

Adapter cable ACF-6A 2743889

Barcode scanner

BC-1250G BC-1250G 4377939

Keyboard KBGE-

MT2049 KBGE-MT204S 3504388

Software es control

0701-0702/0113 1314 2390081 (without interface adapter)

Further accessories are at the end of the chapter



^{*} only available for countries which use a Schuko plug

Equipment tester in accordance with EN 61557

GT-800

Automatic equipment tester

· Automatic test sequence, with input from cus-

Connection for external current clamp adapter

for measurement of protective earth currents,

• Test voltage for insulation measurement, switch-

Testing of portable residual current circuit

• Automatic polarity of mains socket

in accordance with

DIN VDE 0701-0702

even on 3-phase samples

as the GT-600, also with:

tom test sequences

breakers (RCDs)

able 250 / 500 V



















Included:

- 1 x GT-800 with accessory case (fixed to device lid, removable)
- 1 x test lead
- 1 x probe
- 1 x crocodile clip
- 1 x interface cable (USB)
- 1 x user manual



Adapter cable ACF-6A



Technical specifications

graphical LCD, 128 x 64 pixels Display

Display ranges Protective earth resistance

0.01...10.0 Ω

Test current/voltage > 200 mA / approx. 6 V AC Test current/voltage > 5 A / approx. 6 V AC Insulation resistance $0.01...50~M\Omega$ Test current / voltage 500 V DC / > 1 mA

(250/500 V only GT-800) Equivalent stray current 0.25...20 mA

Test voltage / current approx. 45 V AC / approx. 260 mA

Protective earth current 0.25...20 mA

(Differential current procedure)

Touch current 0.02...2 mA (Direct measurement procedure)

30 W...4.04 kVA Apparent power Active power 30 W...4.04 kW Load voltage 195...253 V Load current 0...16 A Power factor 0...1

Voltage measurement

SELV/PELV 10.0...150 V AC/DC

External

current clamp input 0.0 ... 20.0 mA

0.2 ... 60.0 A, for clamp adapter 1000:1 (only GT-800)

Test functions of PRCD (only GT-800) Protective earth, insulation, function, protective earth current,

 $\frac{1}{2}x I_{\Lambda}N$, $1x I_{\Lambda}N$, $5x I_{\Lambda}N$, and RCD test: trip current (ramp) PRCD types 2-pole, 3-pole, and S-type

Mains fuse 2 x T16 A

Overall

Measurement memory 3800 measurement values, cor-

responds to approx. 260 meter

measurements

Interface (USB 2.0) for PC

Interface (USB 2.0) for barcode scanner and keyboard

Limit value display optical and acoustic Safety cert.: DIN VDE 0404 parts 1, 2, DIN VDE 0411-1 / EN 61010-1

DIN VDE 0413/EN 61557 parts 2, 4 CAT II/300 V

Measurement category

Protection category IP 40

230 V +10%/-15% 50/60 Hz Power supply Power consumption approx. 45 VA

300 x 250 x 130 mm Dimensions approx. 4.5 kg Weight

Ordering Information:

Description Article no. Model

GT-800* GT-800 4151644

GT-800-CH** GT-800-CH 4460614

only available for countries which use a Schuko

** Only available for Switzerland

Recommended Accessories

Leakage current clamp

adapter CHB1 1311 2390055

Adapter cable ACF-6A 2743889

Barcode scanner

BC-1250G BC-1250G 4377939

Keyboard

KBGE-MT204S KRGF-MT204S 3504388

Software es control

0701-0702/0113 1314 2390081

(without interface adapter)

Further accessories are at the end of the chapter





Earth measurement set

perfect for:
• e.g. Telaris ProInstall-200

Included:

1 x carrying case

2 x ground spikes (235 x \varnothing 10 mm)

1 x test lead, red, 25 m

1 x test lead, blue, 25 m

1 x test lead, green, 5 m

3 x test lead winders

3 x crocodile clips

Ordering Information:

Description Model Article no.

Earth measurement set TL-EARTH

4388671



Barcode scanner BC-1250G



1063

Barcode Scanner

- For reading in barcoded sample numbers* Model 1325 for:
- For MACHINEmaster (Model 9050)

Model BC-GT07XX for:

• for equipment tester GT-0751

Model BC-1250G for:

- for machine tester MT 204-S (Model 9085)
- for equipment tester GT600 and GT800

Barcode sticker

- Abrasion-resistant numbered barcodes for identifying samples
- Consecutive numbering
- Barcoded (code 39) and clear text
- Size 54 x 15 mm
- For 0701/0702 test equipment
- For MACHINEmaster (Model 9050)

Ordering Information	n:	
Description	Model	Article no.
Barcode scanner	1325	3223132
Barcode scanner BC-GT07XX	BC-GT07XX	3504434
Barcode scanner BC-1250G	BC-1250G	4377939
Barcode sticker (250 pcs. on roll)	1063	2389952



KBGE-MT204S

USB keyboard

- For convenient entry of client/sample information on site
- For equipment tester GT600 and GT800

Ordering Information:

Description Model Article no. KBGE-MT204S 3504388 Keyboard



AC current clamp adapter

- Current measurement from approx. 1 mA to 1000 A
- Jaw opening 48 mm
- Current output, output signal: 1 mA corresponds to 1 A test current
- Fixed test lead
- No batteries required

Ordering Information:

Description Model Article no.

3313401 AC current clamp adapter 1226

AC

^{*} for reading in code 39, code 128, code 2/5, EAN, **UPC** barcodes







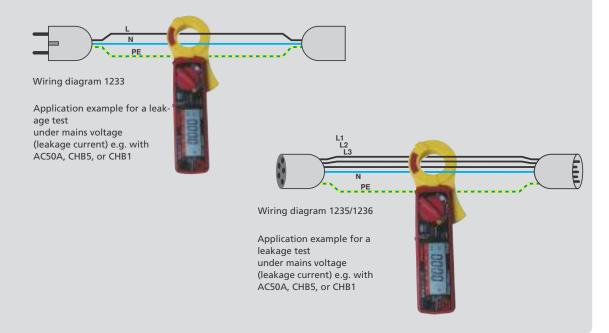
Measurement adapter

for stray current/

leakage current measurement

- Measurement adapter for measuring differential current, protective earth current, load current, and neutral conductor current in portable consumers via a leakage current clamp
- All conductors are individually brought out

Ordering Informati	on:	
Description	Model	Article no.
Measurement adapters	:	
Schuko/Schuko*	1233	2145900
CEE 5-pole 16 A	1235	2145921
CEE 5-pole 32 A	1236	2145939
* only for countries wi	th Schuko pl	lug



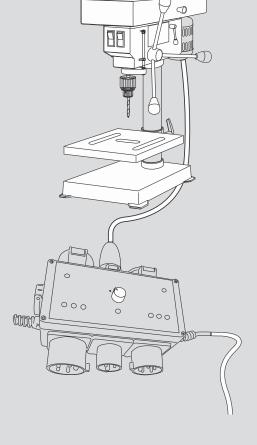


Ordering Information:Article no.DescriptionModelArticle no.VLP513433313514

VI.D 5

Three-phase current extension test adapter

- For testing portable equipment and extension cables with the plugs and couplings:
- · 16 A CEE 3-pole
- 16 A CEE 5-pole
- · 32 A CEE 5-pole
- · IEC power cable and Schuko
- Measurement of protective earth resistance, insulation resistance, function of active conductors (L-N), and rotary field
- Suitable for all test equipment with an earthed socket and test probe







DAA-16, DAA-32

DAA-16, DAA-32

Three-phase adapter 16 A or 32 A

- Three-phase current plug CEE 16 A or CEE 32 A
- Connections via five separate 4 mm sockets for L1, L2, L3, N and PE
- For quick connection of test devices to threephase sockets when testing according to DIN VDE 0100

Ordering Informati	on:	
Description	Model	Article no.
DAA-16*	DAA-16	2743806
DAA-32*	DAA-32	2743850
	2,0132	
* with Schuko plug		



Three-phase adapter 1142

- For testing portable equipment with the plugs:
 16 A CEE 3-pole, 16 A CEE 5-pole, and 32 A CEE
 5-pole
- Measurement of protective earth resistance and insulation resistance
- Suitable for all test equipment with an earthed socket and test probe

Ordering Informati	on:	
Description	Model	Article no.
Three-phase adapter* * with Schuko plug	1142	3313394



Three-phase adapter 1240/1241

- For testing portal devices with three-phase current plug 16 A CEE 5-pole (1240) or 32 A CEE 5-pole (1241)
- Measurement of protective earth resistance and insulation resistance
- Suitable for all test equipment with an earthed socket

Ordering Informati	ion:	
Description	Model	Article no.
Three-phase adapter 16A*	1240	3313412
Three-phase adapter		
32A*	1241	3313420
* with Schuko plug		

Accessories



CHB1

Leakage current clamp adapter (AC)

Functions

- Clamp adapter for measuring leakage currents in conjunction with a multimeter
- Stray current measurement in connection with GT-800

Product information

- Current output, output signal:
 1 mA corresponds to 1 A test current
- Jaw opening 30 mm
- Fixed test leads
- No batteries required
- · Not suitable for earth measurements

Technical specifications

Ranges

 Current AC
 1mA ...50 A

 Basic accuracy
 ± (6 % + 0.5 mA)

 Output current
 1 mA/A

 Frequency range
 40 Hz...10 kHz

 Protection class
 IP 30

Pollution degree 2 Measurement category CAT II/600 V

Safety cert.: DIN VDE 0411/EN 61010/IEC

61010

Jaw opening approx. 30 mm

Length of connection cable approx. 1.5 m Dimensions approx. 140 x 45 x 20 mm

Weight approx. 75 g

Ordering Information:

Description Model Article no.

CHB1 1311 2390055



PAT-BRUSH

Brush probe

- Measurement of protective earth resistance and touch current
- Enables stray current measurement on moving or rotating parts
- Reduces transition resistance due to multiple contacting
- Simplifies measurement on refined or oxidized surfaces
- Max. test current 0.2 A
- 4 mm plug-in technology
- Total length 190 mm, brush dimensions 60 mm x
- With protective packaging for safe storage
- Can be used for all testing equipment

Ordering Information:

Description Model Article no.

Brush probe PAT-BRUSH 4151667



ADAPTER-PE

Adapters for protective earth

- Measurement of protective earth resistance with securely attached equipment
- Secure contacting of the protective earth to a Schuko socket
- 4 mm plug-in technology

Ordering Information:

Description Model Article no.

Adapter for protective

earth ADAPTER-PE 4151659



PA-1

Adapter for 3-pole plug

- Measurement of protective earth resistance and insulation
- For C5 power cable types (DIN VDE 0623, IEC/EN60320)

Ordering Information:

Description Mo

Description Model Article no.

Adapter for

3-pole plug PA-1 **4362289**



Software packages for logging purposes



Test reports act as evidence of proper performance of the work carried out, and provide the client and the company that has been commissioned clear documentation regarding safety.

Software packages from Beha-Amprobe provide a convenient, practical solution in order to transfer data from measurement and testing equipment by quickly and easily creating a test report and archiving the measurement data.

Compared to manual creation this results in time being saved, particularly with repeat testing services and verifications.



Products

es control professional Downloader Software 64

Software | Which software for which device

	Software			
	es control professional 0100	es control professional 0701-0702/0113	es control professional Complete	Beha-Amprobe Downloader Software
Test equipment:	Model 1312	Model 1314	Model 1316	Model DL-SW-KIT
PROINSTALL-100	•		•	•
PROINSTALL-200	•		•	•
GT-600		•	•	
GT-800-CH		•	•	
GT-0751		•	•	
MACHINEmaster		•	•	
MT 204-S		•	•	



DL-SW-KIT

Downloader Software

Key Features

- Software for logging measurement data in accordance with DIN VDE 0100 and 0105. Downloads data from supported meters:
- ProInstall-100
- ProInstall-200
- Displays downloaded data using form and table view for easy analysis
- Allows saving, retrieving and printing of the downloaded data
- Provides standard form templates to quickly log results with professional quality
- Exports data to other programs such as Microsoft Excel using the CVS format
- Provides utility to clear memory and to change meter setup
- Opto-isolated USB interface for user and computer safety
- Preview of the stored measurement values on the PC using Virtual Meter function

System requirements

Operating System: Windows 7, 8 or 10. Minimum recommended hardware: Pentium class microprocessor, 32 MB RAM, and up to 70 MB hard disk space (100 MB to install)

Supported instruments

- ProInstall-100
- ProInstall-200

Ordering	Information:
----------	--------------

Description Model Article no.

Downloader Software DL-SW-KIT 4597359









es control professional

Software packages

- Convenient, upgradeable software for logging measurement data in accordance with DIN VDE 0100, 0701-0702, 0751, and 0113
- Access authorization/user administration for four different user groups
- Comparison and update of different es control databases (replication)
- Interface to external barcode printing programs (Brother® P-Touch), allowing the sample number and test code to be printed as a barcode
- Result evaluation for tests in accordance with DIN VDE 0100 for quick evaluation of overall test
- Ideal software for all providers of repeat testing services according to BetrSichV (German Ordinance on Industrial Health and Safety) or in the field of facility management
- Interface cable not included in delivery (optional)

Software in English/German language version available.

Ordering Information	:	
Description	Model	Article no.
es control		
professional 0100 (without interface cable)	1312	2390062
es control professional 0701-0702/	N112	
(without interface cable)		2390081
es control professional Complete		
(without interface cable)	1316	2390735
USB download cable for		
ProInstall series	TL-USB	4372676
RS-232 on USB adapter	1217	2389965
Downloader Software	DI CALICIT	4507050
DL-SW-Kit	DL-SW-KIT	4597359





Recommended configuration for es control software

Operating system Win XP, Win 7, Win 8/8.1,

Win 10

Pentium IV or similar pro-Processor

cessor*

RAM 256 MB or higher VGA monitor or monitor Screen

with higher resolution; Super VGA recommended: Resolution 800 x 600 or

greater available 400 MB

Memory CD-ROM

Drive RS232; 9-pole or USB Interface

(dependent on tester)

* Windows 7, 8 and 10 are registered trademarks of the Microsoft Corporation

Included:

1 x software on CD-ROM (es control professional 0100, es control professional 0701-0702/0113, or es control professional Complete)





Price advantage!

Save upon purchasing a complete package (all modules) compared to buying all individual modules separately.

Model	es control professional 0100	es control professional 0701-0702/0113	es control professional Complete
DIN VDE 0100, 0105	•		•
DIN VDE 0701-0702, 0751-1/ EN 62353 and 0113		•	•
Clear and simple hierarchy	•	•	•
Data tree (client, unit, test, distributor, and circuit)	•		•
Data tree (customer, location, department, sample, and test)		•	•
Transfer of measured values from tester to PC	•	•	•
Automatic creation of new devices under test that are not yet in the database. Tests can thus be printed out quickly and easily.	•	•	•
Results of a standard test report for electrical systems	•		•
Results of a test series can be printed out in form of a list or individual logs for each DUT		•	•
Lists can be exported in text and Excel format	•	•	•
Assistant for reading in data and printing out reports	•		•
Access authorization/user administration for four different user groups	•	•	•
Comparison and update of different es control databases (replication)	•	•	•
Result evaluation for tests in accordance with DIN VDE 0100 for quick evaluation of overall test	•		•
Data export to external barcode printing programs (Brother® P-Touch), allowing the sample number and test code to be printed as a barcode		•	•



Accessories:

USB adapter including driver Model 1217

Ordering Information:				
Description	Model	Article no.		
es control professional 0100	1312	2390062		
es control professional 0701-0702 / 0113	1314	2390081		
es control professional Complete (all modules)	1316	2390735		
USB data cable for				
ProInstall series	TL-USB	4372676		
RS-232 on USB adapter	1217	2389965		
Beha-Amprobe				
Downloader Software				
with interface cable	DL-SW-KIT	4597359		

Environmental testing: Temperature, light, sound, humidity, rotational speed



Within the field of environmental testing, we provide a wide range of thermometers and appropriate thermal sensors for every application.

In addition, our range of environmental testing products also features a selection of various meters such as moisture meters, sound level meters, and light meters for measuring illumination, e.g., in the workplace.

Products

Temperature meters	67
Moisture meters	70
Temperature / RH data logger	72
Temperature sensors / accessories	73
Light meters	74
Sound level meters	75
Anemometers	77
Tachometers	78

Symbols used in this chapter

NTC Typ	NTC as thermal element	IR	Infra-red measurement
K Typ	NiCr/Ni thermo-element (K-type)	data logger	Data Logger
Data Hold	Measurement memory DATA HOLD	<u>((_))</u>	Alarm function
min/max	Min/max value memory	PC	PC interface
	Back light	6	Dew point measurement

Temperature Meters





IR608A

Infrared thermometer

Functions

• Non-contact temperature measurement

Product information

- Switchable between °C and °F measurement
- Integrated measurement memory (data hold)
- Illuminated display
- Distance to spot size ratio: 8:1
- Auto Power Off

Product highlights

- Laser-based targeting
- Handy and compact design in pistol format

Included:

- 1 x IR608A
- 1 x battery 9 V, IEC 6LR61
- 1 x user manual

Technical specifications

 $\begin{array}{ll} \text{Basic accuracy} & \pm 2\% \text{ or } \pm 2^{\circ}\text{C } (\pm 3.5^{\circ}\text{F}) \\ \text{Emissivity} & 0.95 \text{ (preset)} \\ \text{Response time} & 500 \text{ ms} \end{array}$

Power supply 1 x battery 9 V, IEC 6LR61
Dimensions 152 x 101 x 38 mm
Weight approx. 227 g

Ordering Information:

Description Model Article no.

IR608 A IR608A **3015690**



IR-450-EUR

Mini infra-red thermometer with flashlight

Functions

- IR temperature measurement
- LED flashlight

Product information

- Ratio of spot size to distance 8:1
- °F / °C selectable
- Temperature is displayed for 10 seconds
- With pocket clip

Product highlights

- With laser pointer
- Small and compact
- 1 x IR-450-EUR
- 1 x battery 1.5 V, IEC LR03, AAA
- 1 x user manual

Technical specifications

 Display
 LCD, 3 digit

 Measurement ranges
 -30...+500° C; 20 ... 932° F

 Resolution
 0.2° C / 0.5° F

 Basic accuracy
 ±1.5% or ±2° C (±3° F)

 Emissivity
 0.95 (preset)

Response time 500 ms
Power supply 1 x battery 1.5 V, IEC LR03, AAA
Dimensions 100 x 20 x 29 mm

Dimensions 100 x 20 x 29 mm Weight approx. 50 g

Ordering Information:



Description Model Article no.

IR-450-EUR IR-450-EUR **4308539**























Infrared Thermometer 10:1

Functions

• Non-contact temperature measurement

Product information

- Temperature measurement from -18° to 380°C
- Integrated measurement memory (data hold)
- MIN/MAX measurement memory
- Illuminated display
- Distance to spot size ratio: 10:1
- Very fast response time
- Auto Power Off

Product highlights

- Laser-based targeting
- Handy and compact "pistol grip" design

Technical specifications

Display Measurement ranges LCD, 4 digit -32...+1550°C 0.1°C < 999.9 °C / 1°C > 999.9 °C

Resolution ±1.8% or ±1.8° C Basic accuracy

Adjustable between 0.10...1.00 Emissivity

Response time

Ratio of spot size to distance

1-point laser >1mW Class 2 1 x battery 9 V, IEC 6LR61 Laser Power supply Dimensions 183 x 147 x 57 mm Weight approx. 345

1 x battery 9 V, IEC 6LR61 Power supply 183 x 147 x 57 mm approx. 345 Dimensions Weight

* Technical data relates to the highest model in the series (IR-750-EUR). Data regarding individual models can be found on our website www. beha-amprobe.com

IR-712-EUR

Infrared Thermometer 12:1

as the IR-710-EUR, also with:

- Temperature measurement from -18° to 550°C
- Distance to spot size ratio: 12:1
- Continuously adjustable emissivity
- Integrated thread for tripod
- Measuring the average temperature

IR-720-EUR

Infrared Thermometer 20:1

as the IR-712-EUR, also with:

- Temperature measurement from -32° to 1050°C
- Distance to spot size ratio: 20:1

IR-730-EUR

Infrared Thermometer 30:1

as the IR-720-EUR, also with:

- Temperature measurement from -32° to 1250°C
- Distance to spot size ratio: 30:1

IR-750-EUR















IR-750-EUR

Infrared Thermometer 50:1

as the IR-730-EUR, also with:

- Temperature measurement from -50° to 1550°C
- Distance to spot size ratio: 50:1
- Adjustable alarm function
- Data memory up to 99 readings
- USB interface for transferring stored measurements to a PC
- Input for K-type test probe

Included:

- 1 x IR-710-EUR, IR-712-EUR, IR-720-EUR, IR-730-EUR, IR-750-EUR
- 1 x battery 9 V, IEC 6LR61
- 1 x carry case (only for IR-712-EUR, IR-720-EUR, IR-730-EUR, IR-750-EUR)
- 1 x user manual
- 1 x USB cable (only IR-750-EUR)
- 1 x software on CD (only IR-750-EUR)
- 1 x hard carrying case (only IR-750-EUR)
- 1 x K-type wire probe (only IR-750-EUR)

Ordering Information:				
Description	Model	Article no.		
IR-710-EUR	IR-710-EUR	4308480		
IR-712-EUR	IR-712-EUR	4308498		
IR-720-EUR	IR-720-EUR	4308500		
IR-730-EUR	IR-730-EUR	4308517		
IR-750-EUR	IR-750-EUR	4308521		
	Description IR-710-EUR IR-712-EUR IR-720-EUR IR-730-EUR	Description Model IR-710-EUR IR-710-EUR IR-712-EUR IR-712-EUR IR-720-EUR IR-720-EUR IR-730-EUR IR-730-EUR		





























Functions

TMD-50

- Temperature measurement with inputs for two
- Measurement of temperature difference

K-type digital thermometer

Product information

with dual inputs

- Input for two type K temperature probes
- Switchable between °C and °F measurement
- Integrated measurement memory (data hold)
- MIN/MAX and relative value measurement
- Measuring the average temperature
- Illuminated display
- Auto Power Off

Product highlights

- T1-T2 (temperature difference)
- Shock-proof and impact-resistant thanks to standard protective holster

Technical specifications

Display Measurement range LCD, 31/2 digit, 1999 digits Type K -180...+1350° C (-292...+1999° F)

Basic accuracy ±(0.1% v.M.+1°C) ±(0.1% v.M.+2°C) $\pm (0.1\% \text{ v.M.} + 2^{\circ}\text{F})$ ±(0.1% v.M.+4°F) Resolution

from -60°C to 200°C from -76°F to 1999°F from -76°F to -328°F 0.1 °C/°F

from -60°C to 1350°C

Power supply 4 x battery 1.5 V, IEC R03, AAA Dimensions approx. 160 x 85 x 30 mm

approx. 280 g Weight

TMD-53

K-type / J-type digital thermometer with dual input

as the TMD-50, also with:

- Connections for two temperature probes (for types K and J)
- Alarm function (optical and acoustic)
- Clear multi-functional display for T1, T2 and T1-T2 (temperature difference)

TMD-53 specifications

Display LCD, 5 digit, 99999 digits Type K -180...+1350° C (-292...+2462° F) Measurement range

Basic accuracy

± (0.05% rdg. + 0.3°C) ± (0.05% rdg. + 0.7°C) at -50°C to 1350°C at -50°C to -200°C \pm (0.05% rdg. + 0.6°F) at -58°F to 2498°F ± (0.05% rdg. + 1.4°F) at -58°F to -328°F 0.1 °C/°F Resolution

4 x battery 1.5 V, IEC R03, AAA Power supply Dimensions approx. 160 x 85 x 30 mm Weight approx. 280 g

Included with TMD-50/TMD-53:

1 x TMD-50 or TMD-53

2 x K-type wire probe

4 x battery 1.5 V, IEC R03, AAA

1 x user manual

TMD-56 Digital thermometer with data logger and USB connection

as the TMD-53, also with:

- Inputs for two temperature probes (of types K, J, T, R/S, N and E)
- Built-in real-time clock and date
- Clear multi-functional display for date, time, T1, T2 and T1-T2 (temperature difference)
- USB interface
- Evaluation software included
- Data logger for 16,000 measurement values (various intervals can be selected)

Technical specifications

Display LCD, 41/2 digit, 19999 digits Type K: -180°C to 1350°C Measurement range (-292°F to 2462°F)

Basic accuracy

Type K

± (0.05% rdg. + 0.3°C) at -50°C to 1350°C ± (0.05% rdg. + 0.7°C) at -50°C to -210°C \pm (0.05% rdg. + 0.6°F) at -58°F to 2501°F ± (0.05% rdg. + 1.4°F) at -58°F to -346°F Resolution 0.1 °C/°F

4 x battery 1.5 V, IEC R03, AAA Power supply approx. 160 x 85 x 30 mm Dimensions

approx. 360 g Weight

TMD-56 Data Typ Hold min/max Typ PC



Accessories:

Carrying case Model 1150



Heat-conducting paste up to 250 °C (30 g) Model 1032

Included with TMD-56:

1 x TMD-56

2 x K-type wire probe

1 x USB cable

1 x software CD 4 x battery 1.5 V, IEC R03, AAA

1 x user manual

Ordering Informatio	Ordering Information:			
Description	Model	Article no.		
·				
TMD-50	TMD-50	3730150		
TMD F3	TMD E3	3730085		
TMD-53	TMD-53	3/30085		
TMD-56	TMD-56	3730138		
Carrying case	1150	2145755		
Heat-conducting paste	1032	2145689		

Environmental testing | Temperature meters/moisture meters



Accessories:

up to 250 °C (30 g)

Model 1032

Heat-conducting paste

TPP1-C1

Mini pocket thermometer with immersion probe

Functions

• Temperature measurement with integrated NTC sensor

Product information

- Immersion probe
- Measurement memory (data hold)
- Compact design
- With protective sleeve/holder (TPP1-C1 only)

TPP2-C1

Mini pocket thermometer with surface probe

• As TPP1-C1, but with: Surface probe without protective sleeve

Ordering Information: Description Model Article no. TPP1-C1 2826634 TPP2-C1 TPP2-C1 2826652 Heat-conducting paste 1032 2145689

Technical specifications

Measurement range

-19.9 ... +49.9° C

+50.0 ... +199.9° C

Temperature change/

+200 ... +250° C

Probe dimensions

response time

Power supply

Dimensions

Weight

TPP1-C1

TPP2-C1

Range

-50...-20° C

LCD, 31/2 digit

-50 to +250°C

1° C

0.1° C

 0.1° C

1° C

> 5 K/s

(with protective sleeve): approx. 40 x 30 x 160 mm

approx. 16 q

Resolution Accuracy

128 mm x Ø 3.8 mm

125 mm x Ø 13.7 mm (tube Ø 3.8 mm)

1 x battery 3 V, IEC 2032

±3° C

±2° C

 \pm (3 % rdg. + 1°C)

 \pm (3 % rdg. + 1°C)

Included:

- 1 x TPP1-C1 or TPP2-C1
- 1 x battery 3 V, IEC 2032
- 1 x user manual











TH-1

Digital humidity and temperature meter

- Humidity measurement
- Temperature measurement

Product information

- Probe integrated in device
- Switchable between °C and °F measurement
- Integrated measurement memory (data hold)
- MIN and MAX data hold
- Auto Power Off

Product highlights

- Compact and handy design
- Dew point measurement
- Measurement of wet bulb temperature

Included:

- 1 x battery 3 V, CR2032
- 1 x user manual

Technical specifications

Display Dual LCD

Humidity measurement

Measurement range

0 to 100% rel. humidity Resolution 0.1% ± 3% rel. humidity

Accuracy

Temperature

measurement

Measurement range -20 to +50°C / -4 to +122°F

Resolution $0.1^{\circ}C / 0.1^{\circ}F$ Accuracy ± 0.6 °C / ± 1 F 1 x battery 3V, CR2032 175 x 42 x 16 mm Power supply Dimensions Weight approx. 120 g

Ordering Information:

Description Model Article no.

TH-1 TH-1 3311871

Temperature meters/moisture meters





TH-3

Digital humidity and temperature meter

- Humidity measurement
- Temperature measurement

Product information

- Probe integrated in device
- Switchable between °C and °F measurement
- Integrated measurement memory (data hold)
- MIN and MAX data hold
- Auto Power Off

Technical specifications

LCD, 31/2 digit

Humidity measurement

5...95% rel. humidity Measurement range Resolution

0.1% ± 3% rel. humidity Accuracy

Response time < 3 min.

Temperature measurement

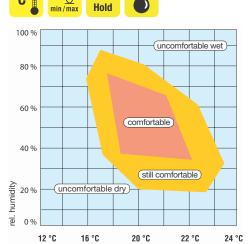
-20...+60°C / -4...+140°F Measurement range

Resolution 0.1°C / 0.1°F Accuracy $\pm~0.8^{\circ}$ C / $\pm~1.6^{\circ}$ F Response time < 10 sec.

Power supply 1 x battery 9 V, IEC 6LR61

or 6F22

Dimensions 240 x 54 x 34 mm approx. 180 g Weight



room temperature

THWD-3

Digital humidity and temperature meter

As TH-3, but also with:

- Dew point measurement
- Measurement of wet bulb temperature

Ordering Information:

Description Model Article no.

TH-3 3027060 THWD-3 THWD-3 3033042



- 1 x TH-3 or THWD-3
- 1 x carrying case
- 1 x battery 9 V, IEC 6LR61
- 1 x user manual



MT-10

Moisture meters for construction and timber

Functions

- Moisture meters for construction and timber
- Temperature measurement

Product information

- Probe integrated in device
- Switchable moisture measurement for timber or construction materials
- Switchable temperature measurement in °C or °F
- Back light
- Auto Power Off

Product information

- Compact and handy design
- Quick and simple statement regarding the moisture content by means of 3 LEDs: green: air-dry environment · yellow: increased moisture

excessive moisture

Included:

1 x MT-10

· red:

1 x battery 9 V, 6F22

1 x user manual

Technical specifications

LCD, 31/2 digit and 3 LEDs

Humidity measurement

Measurement principle of electric resistance

Measurement range

Timber 8...60% 0.3...2.0% Construction material

Temperature 0...+40°C or +32...+99°F

Resolution

Timber 0.1% Construction material 0.01% Temperature 0.1°C / 0.2°F

Accuracy

Timber Construction material ±0.1% $\pm 1^{\circ}$ C / $\pm 2^{\circ}$ F Temperature 1 x battery 9 V, 6F22 Power supply 145 x 60 x 31 mm Dimensions approx. 100 g Weight

Ordering Information:

Article no. Description Model

3503178 MT-10 MT-10



Environmental testing | Temperature and moisture meter, carbon monoxide meter









Included:

- 1 x TR200-A
- 1 x user manual
- 1 x battery 3.0 V, IEC CR2
- 1 x USB cable
- 1 x CD with software (download suite)











Included:

- 1 x TR300
- 1 x user manual
- 4 x battery 1.5 V, IEC LR6
- 1 x USB cable
- 1 x CD with software (download suite)



Included:

- 1 x CM100
- 3 x batteries 1.5 V, IEC LR 03
- 1 x carrying case
- 1 x user manual

TR200-A

Temperature / RH Data Logger with Digital Display

Functions

- Temperature measurement
- Relative Humidity measurement
- Data Logger

Product information

- Wall mountable
- Offers visible LEDs warnings to monitor IAQ condition
- Instrument for monitoring indoor temperature and humidity
- Selection of save slots: 1000, 2000, 4000, 8000, 12000, 16000 max. per function
- Auto shutoff
- Can only be used via PC!

Product highlights

- USB interface
- IP65 rated for dust and moisture
- Optical limit value display

Accessories:

TPK-60, external temperature sensor Model TPK-60

TR300

Temperature / RH Data Logger with Digital Display

Functions

- Temperature measurement
- Relative Humidity measurement
- Data Logger
- Dew point display

Product information

- Instrument for indoor air quality monitoring
- Wall mountable, self-standing or tripod mount-
- Displays temperature, relative humidity
- Air Temperature or Dew Point (DP) display and Celsius/Fahrenheit are selectable
- Offers visible LEDs warnings to monitor IAQ
- Small size design
- Selection of save slots: 1000, 2000, 4000, 8000, 12000, 16000

Product highlights

- Real time marking (date/time)
- USB interface
- Extra large digital display
- Alarm function

CM100

carbon monoxide meter

- Monitoring carbon monoxide concentrations with an alarm function
- Preset threshold value of 25 ppm for safe recognition of risks

Product information

- Adjustable threshold values: 25, 30, 35, 45, 50, 70, 100, and 200 ppm
- Display of measured value and maximum value
- Self-test function
- Auto Power Off

Product highlights

- Display of maximum carbon monoxide concentration
- Illuminated display

Technical specifications

LCD, 3¾ digit, 1999 digits LED display red: Hi-Lo Alarm: yellow Record-

Measurement ranges Temperature Internal probe -40 °C...+85 °C External probe -40 °C...+100 °C Relative Humidity 0.0...99.9 %

Tolerance Temperature ±0.6 °C (-20 °C...+50 °C);

otherwise ±1.2 °C

±3 % at 25 °C; otherwise 5 % Relative Humidity

Resolution temperature 0.1 °C Resolution RH 0.1 %

Save slots 1000, 2000, 4000, 8000, 12000,

16000

Power supply 1x battery 3.0 V, IEC CR2

Protection category IP54

Dimensions 75 x 55 x 23 mm Weight approx. 200 g

Ordering Information:

Description Model Article no. TR200-A TR-200-A 3477302 TPK-60 TPK-60 3503184

Technical specifications

Display I CD

Ranges Temperature range -20...+70 °C Relative Humidity 0...100 %

Tolerance

Temperature ±0.6 °C at 0...50 °C: otherwise ±1.2 °C

Relative Humidity ±3 % at 10...90 %; otherwise

±5 %

Resolution Temperature

Relative humidity 0.1 %

4 x battery 1.5 V, IEC LR6 Power supply 175 x 42 x 16 mm Dimensions Weight approx. 200 g

Ordering Information:

Description Model Article no.

TR300 3311844 TR300

Technical specifications

LC display, 3 digit, 1000 digits Display

Measurement range/resolution

Carbon monoxide (CO) 0...999 ppm / 1 ppm ± 20% at 0 – 100 ppm Accuracy ± 15% at 100 - 500 ppm

(at 20 °C +/-5%, 50 +/-20% RH)

3x batteries 1.5 V, IEC LR 03

Operating

temperature range -10 ... +60°C (5...99% rel. humid-

ity) Power supply

(AAA), Micro Dimensions 175 x 47 x 28 mm Weight approx. 130 g

Ordering Information:

Description Model Article no.

3311826 CM100 CM100

Temperature sensors / accessories





TPK-59

flexible wire probe 4 mm plug

- with 4 mm plug (clearance 19 mm)
- Probe length approx. 0.9 m

K-type temperature sensor Temperature range -46 °C...+316 °C Accuracy ±1.5 °C

Ordering Information

Model: TPK-59 · Article no.: 2733660



Type 101

K-type surface probe

Temperature range -50 °C...+450 °C

approx. 5.5 s (63.2 % of final tem-Response time

perature value)

±1.5 °C Accuracy

Connection cable approx. 500 mm spiral cable 130 x 4 mm Dimensions

Weight approx. 115 g

Ordering Information

Model: 5795 · Article no.: 2147199



TPK-60

temperature probe

- 2.5 mm jack plug
- Fits the TR100-A and TR200-A
- Cable length 115 mm
- Temperature range (see TR200-A on page 86)

Ordering Information

Model: TPK-60 · Article no.: 3503184



Type 104

K-type liquid sensor

Temperature range -50 °C...+1100 °C

approx. 12.0 s (63.2 % of final Response time

temperature value)

Accuracy ±1.5°C (from 400 °C, 0.48 % rdg.) Connection cable approx. 500 mm spiral cable

Dimensions 130 x 3 mm approx. 105 g

Ordering Information

Weight

Model: 5794 · Article no.: 2147186



K

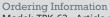
Typ

TPK-62

2 x temperature probes with adapter

- 4 mm jacks, connection for K-type probe
- Suitable for AM-540-EUR and AMP-550-EUR
- •Temperature range





Model: TPK-62 · Article no.: 4160703



Type 106

K-type immersion probe

Temperature range -50 °C...+600 °C

approx. 12.0 s (63.2 % of final Response time temperature value)

Accuracy ±1.5°C (from 400 °C, 0.48 % rdg.) Connection cable approx. 500 mm spiral cable

Dimensions 130 x 3 mm Weight approx. 105 g

Ordering Information

Model: 5793 · Article no.: 3313234



TM-SWA

Data Logging Software and RS232 Cable for TMA10A

- Real-time software logs and displays data from all measurement functions
- Record two channels simultaneously
- Air Flow and Temperature with TMA10 device
- Save results for subsequent analysis
- Automatic calculation of results including maximum, minimum, average, and standard deviation

Ordering Information

Model: TM-SWA · Article no.: 3027085



Type 110

K-type fast response surface probe

Temperature range -50 °C...+900 °C

Response time

Ordering Information

Accuracy Connection cable

Dimensions Weight

perature value)

±1.5 °C (from 400 °C, 0.48 % rdg.) approx. 500 mm spiral cable

approx. 2.3 s (63.2 % of final tem-

130 x 8 mm

approx. 112 g



1032

Heat-conducting paste

- Heat-conducting paste up to 250 °C (30 g)
- Contains silicone

Ordering Information

Model: 1032 · Article no.: 2145689



Type 111

K-type flexible wire probe

Model: 5797 · Article no.: 3313241

Temperature range -50 °C...+400 °C

Response time approx. 5.0 s (63.2 % of final tem-

perature value) ±1.5 °C Accuracy

Dimensions 1000 x 2 mm Weight approx. 22 g

Ordering Information

Model: 5790 · Article no.: 3313229

Environmental testing | Light meters



93560

Digital light meter with save function

Functions

• Illuminance measurement

Product information

- Automatic range selection
- Silicon sensor
- Integrated measurement memory (data hold)

Product highlights

• Measurement memory for 99 individual readings

Technical specifications

LCD, 4 digit 0...50 lx, 0...500 lx, 0...5000 lx, Measurement ranges 0...50 klx, 0...200 klx (Auto range) Resolution 0.01 lx, 0.1 lx, 1 lx, 10 lx,

of the display 100 lx

0...5, 0...50, 0...500, Measurement ranges

0...5000 fc, 0...20 kfc < 10 %

Temperature drift < 1%/K 6 x battery 1.5 V, IEC LR03 150 x 72 x 35 mm (unit) Power supply Dimensions 92 x 60 x 29 mm (sensor)

Weight approx. 250 g







Included:

- 1 x 93560
- 6 x battery 1.5 V, IEC LR03
- 1 x carrying case
- 1 x user manual

Ordering Information:

Description Model Article no.

93560 93560 3222543





Max Hold

LM-100

Digital Lux Meter

Functions

• Light measurement

Product information:

- Manual range selection
- Silicon sensor
- Integrated measurement memory (data hold)
- Max data hold (Max)

LM-120

Digital Lux Meter

as the LM-100, also with:

- Automatic and manual range selection
- Minimum and maximum data hold (min/max)
- Auto Power Off
- Zero adjust knob

Technical specifications

LCD, 31/2 digit Display 0...20 (only LM-120) 0...200, 2000, 20.000, Measurement range

200.000 Lux 0-20, 200, 2000, 20,000 fc 0.1, 1, 10, 100 Lux 0.01, 0.1, 1, 10 Fc

Accuracy < 10 % 1 x battery 9 V, IEC 6F22 Power supply Dimensions 130 x 63 x 38 mm (unit)

80 x 55 x 29 mm (sensor)

Weight approx. 220 g

Resolution

Included:

1 x LM-100 or LM-120

1 x battery 9 V, IEC 6F22

1 x carrying case

1 x user manual

Ordering Information:

Article no. Description Model LM-100 LM-100 3052348 LM-120 LM-120 3052353

Leak detectors, sound level meters



35 kHz...45 kHz ±6 dB

1 x battery 9 V, IEC 6LR61 (in any

Technical specifications

case)

LED

40 kHz

65 x 185 x 25 mm

65 x 165 x 25 mm

approx. 150 g (incl. battery)

approx. 160 g (incl. battery)

III D-300

Display

Frequency

Dimensions

ULD-300

UT-300

Weight

ULD-300

UT-300

UT-300

Power supply



Included:

- 1 x ultrasound leak detector ULD-300
- 1 x ultrasonic transmitter UT-300
- 1 x headphones
- 1 x extension and parabolic attachment
- 2 x batteries 9 V, IEC 6LR61
- 1 x carrying case
- 1 x user manual

TMULD-300

Ultrasonic leak detector kit

Functions

- Pressurized air leaks (HGV pressurized air, braking and suspension systems), leaks in refrigeration, air-conditioning and heating systems, leaks in steam lines etc.
- Leaks in door and window seals, roofs
- Leaks in the automobile sector: Windscreens, door seals

Product information

- Kit consisting of ultrasonic leak detector (ULD-300) and ultrasonic transmitter (UT-300) in robust carrying case
- · Leaks indicated optically and acoustically

INFO:

Sounds above 20 kHz cannot be heard by the human ear. Even the smallest leaks in pressurized air and gas systems cause turbulences, which in turn generate ultrasonic sounds.

The ULD-300 detects these sounds and pinpoints the exact location of the leak. The ULD-300 indicates leaks optically (10-stage LED scale) and acoustically (headphones) and features a thumb wheel for setting the device's sensitivity.

Ordering Information:

Description Model Article no.

TMULD-300 TMULD-300 **2731543**

Ultrasonic transmitter (accessories)

UT-300 **2734446**

Accessories:

ULTRASONIC TRANSMITTER Model UT-300









93517

Digital sound level meter with save function

Functions

 Measurement of sound level for a comparison with the guideline values for occupational safety (DGUV Regulation 6)

Product information

- Measurement according to frequency evaluation filters
- A and C, with direct display in dB
- Maximum data hold (Max Hold)
- Switchable between fast and slow response times
- Tripod connection

Product highlights

- DC and AC voltage output for connection to spectrum analyzers, level recorders, or FFT analyzers
- Measurement memory for 99 individual readings

Included:

- 1 x 93517
- 1 x adjusting screwdriver
- 1 x 3.5 mm jack plug
- 1 x battery 9 V, IEC 6LR61
- 1 x carry case
- 1 x windbreak
- 1 x user manual

Technical specifications

Display LCD, 4 digit, bar graph

Measurement ranges

Resolution Frequency range Measurement accuracy

31.5 Hz...8 kHz Class 2 in accordance with IEC

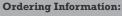
30...130 dB/0.1 dB

Response times Recorder output

 $\begin{array}{ll} \text{FAST (125 ms), SLOW (1s)} \\ \text{ut} & \text{AC: 1 Vrms at 5 k} \Omega, \\ & \text{DC: 10 mV/dB at 5 k} \Omega \end{array}$

61672

Power supply 1 x battery 9 V, IEC 6LR61 Dimensions 264 x 68 x 27 mm Weight approx. 260 g



Description Model Article no.

93517 93517 **3313290**

Environmental testing | Sound level meter / calibrator

























SM-10

Digital sound level meter

Functions

• Measurement of sound level

Product information

- Measurement according to frequency evaluation filters A and C, with direct display in dB
- Integrated measurement memory (data hold, MAX)
- Switchable between fast and slow response times
- Back light

Included:

- 1 x SM-10
- 1 x battery 9 V, IEC 6LR61
- 1 x carrying case
- 1 x windbreak
- 1 x user manual

SM-20A

Digital sound level meter

Functions

• Measurement of sound level

Product information

- Measurement according to frequency evaluation filters A and C, with direct display in dB
- Integrated measurement memory (data hold, MAX)
- Switchable between fast and slow response times
- Back light

Product highlights

- USB interface for PC connection
- Internal data logger for 14,000 readings

Included:

- 1 x SM-20A
- 1 x battery 9 V, IEC 6LR61
- 1 x interface cable
- 1 x software
- 1 x carrying case
- 1 x user manual

Technical specifications

Display LCD, 4 digit Measurement range/resolution

A: 30...130 dB. / 0.1 dB C: 35...130 dB. / 0.1 dB Frequency range 31.5 Hz...8 kHz

Tolerance ±1.5 dB

Response times
Power supply
Dimensions
Veight

Fast (125 ms); Slow (15 ms)
1 x battery 9 V, IEC 6LR61
200 x 55 x 38 mm
approx. 230 g

Ordering Information:

Description Model Article no.

SM-10 SM-10 **3052366**

Technical specifications

Display LCD, 4 digit

Measurement ranges

A: 30...30 dB. (resolution: 0.1 dB) C: 35...130 dB.(Resolution 0.1 dB)

Tolerance ±1.5 dB
Frequency range 31.5 Hz...8 kHz
Power supply 1 x battery 9 V, IEC 6LR61
Dimensions 200 x 55 x 38 mm
Weight approx. 230 g

Ordering Information:

Description Model Article no.

SM-20A SM-20A **3477333**

SM-CAL1

Sound level calibrator

Functions

• Calibrator for sound level meters

Product information

- Two selectable areas: 94 dB and 114 dB
- Appropriate for 1/2" microphones

Technical specifications

 Output signal
 94 dB, 114 dB

 Accuracy
 ± 0.5 dB

 Frequency
 1 kHz (±4 %)

 Power supply
 1 x battery 9 V

Power supply 1 x battery 9 V, IEC 6F22 Dimensions Ø 48 x 125mm Weight approx. 285 g

Included:

- 1 x SM-CAL1
- 1 x ¹/₂" adapter
- 1 x battery 9 V, IEC 6F22
- 1 x user manual

Ordering Information:

Description Model Article no.

SM-CAL1 SM-CAL1 **3052382**











Included:

- 1 x temperature probeTPK60
- 1 x battery 3.0 V, IEC CR 2032
- 1 x carrying case
- 1 x strap hanger
- 1 x user manual









Included:

- 1 x TMA10A
- 1 x carry case
- 1 x battery 9 V, IEC 6LR61
- 1 x user manual









Included:

- 1 x TMA-21HW
- 1 x telescopic probe
- 1 x carry case
- 6 x battery 1.5 V, IEC LR03
- 1 x USB cable
- 1 x software on CD
- 1 x user manual

TMA5

Mini anemometer

Functions

- Air velocity measurement (m/s)
- Temperature measurement
- Humidity measurement

Product information

- Automatic range selection
- Integrated measurement memory (data hold)
- · Auto power-off (can be deactivated)

Product highlights

- External temperature sensor can be connected
- Dew point measurement
- Measurement of wet bulb temperature

Ordering Information:

Description Model Article no

3503169 TMA5 TMA5

TMA10A **Anemometer**

Functions

- Air velocity measurement (m/s)
- Airflow measurement (m3/s)
- Temperature measurement

Product information

- Integrated measurement memory (data hold)
- MIN/MAX and AVG value measurement
- Auto power-off (can be deactivated)
- · Ideal for measurements in ventilation, air-conditioning and heating systems
- Flexible precision vane

Product highlights

- RS-232 interface for PC connection
- TM-SWA software (optional)

Accessories:

TM-SWA data loggingsoftware and RS232 cable Model TM-SWA

TMA-21HW

Hot-wire anemometer

Functions

- Air velocity measurement (m/s)
- Airflow measurement (m3/s)
- Temperature and humidity measurement

Product information

- Integrated measurement memory (data hold)
- MIN/MAX and AVG value measurement
- Auto power-off (can be deactivated)
- Ideal for measurements in ventilation, air-conditioning and heating systems
- Large, illuminated display

Product highlights

- USB interface for transferring stored measurements to a PC
- 1.2m telescopic probe simplifies measuring
- Integrated data logger for records over a longer

Technical specifications

LCD, 3¾ digit, 3999 digits

Measurement ranges Air velocity 1.1...20.0 m/s

0.7...72.0 km/h 0.5...44.7 mph 60...3937 ft/m 0.4...38.8 KNT

Basic accuracy ± 5% rdg or ± 5 digits

1...8 BF

(the higher value applies)

Temperature (int.) 0°C...50°C 32°F...122°F 0.1 °C/°F Resolution Basic accuracy ± 1°C -20°C...70°C Temperature (ext.) -4°F...158°F

0.1 °C/°F Resolution Basic accuracy $\pm~0.6^{\circ}C$

Humidity 5%...95% relative humidity Resolution 0.1% relative humidity Basic accuracy ± 3.5% relative humidity 1 x battery 3.0 V, IEC CR 2032 136 × 46 × 17 mm Power supply Dimensions

Weight approx.135 g

Technical specifications

Display LCD, 4 digit, 9999 digits Measurement range (m/s)0.40-25.00 m/s (resolution: 0.01 m/s) Basic accuracy ±(3% rdg.) 0.01...99.99 m3/s Volume flow (Resolution 0.01 m3/s) 0...50 °C or 32...122 °F Temperature (Resolution 0.1 °F/°C) Basic accuracy ± 1.5 °F / 0.8 °C 1 x battery 9 V, IEC 6LR61 Power supply

181 x 71 x 38 mm

approx. 360 g (incl. battery)

Ordering Information:

Dimensions

Basic accuracy

Weight

Description Model Article no. TMA10A TMA10A 2817785 TM-SWA TM-SWA 3027085

Technical specifications

LCD, 4 digit, 9999 digits Display Measurement ranges (m/s) 0.1...30.0 m/s (Resolution 0.1 m/s)

± (3% rdg.) 0.01...99.99 m3/s Volume flow (Resolution 1 m3/s) -20...60 °C **Temperature** (Resolution 0.1 °C)

Basic accuracy ± 0.5 °C 512KB for 99 datasets Memory 6 x battery 1.5 V, IEC LR03 Power supply **Dimensions** 150 x 72 x 35 mm (unit) Weight approx. 300 g (incl. battery)

Ordering Information:

Description Model Article no.

TMA-21HW TMA-21HW 3730239

Environmental testing | Tachometers



TACH20

Digital tachometer

- Rotational speed measurement
- Surface speed measurement
- Length measurement

Product information

- Display of rotational speed
- Display of surface speed in m/min, ft/min and in/min
- Display of length measurement in m, ft and inch
- Integrated measurement memory
- Display shows last, maximum or minimum value
- Optical (non-contact) or mechanical, adapter-based measurement
- Visible optical measurement performed using infrared beam
- Auto power off after approx. 30 sec (data remains saved)



Accessories:

Reflex stickers

75 mm long (10 pcs.) Model 1154

Technical specifications

LCD, 5 digit Display Ranges

Rotational speed 1 ... 99,999 1min Speed 0.1 ... 1,999 m/min Length 0.02 ... 99,999 m Tolerance ± 0.2 %

± 0.02 % (rpm) Measurement time 0.5 s/1 period at low

rpm

Measurement distance max. 350 mm

2 x battery 1.5 V, IEC LR6 180 x 60 x 25 mm Power supply Weight approx. 195 g

Ordering Information:

Description Model Article no. TACH20 TACH20 3311961 Reflex stickers 1154 2145762



TACH-10

Digital tachometer

Functions

- Rotational speed measurement
- Surface speed measurement

Product information

- Display of rotational speed
- Display of surface speed in m/min, ft/min and in/min
- The last value is shown in the display
- Optical (non-contact) or mechanical, adapter-based measurement
- Visible optical measurement performed using infrared beam
- Auto Power Off

Technical specifications LCD, 5 digit Display

Ranges Rotational speed 10 ... 99,999 1min 1.000 ... 9,999 m/min ± (0.1 % rdg. + 2 digits) Speed Tolerance 50-300 mm 1 x battery 9 V, IEC 6LR61 Measurement distance

Power supply Dimensions 270 x 180 x 30 mm Weight approx. 550 g

Included:

Included:

1 x mechanical measurement adapter

1 x TACH20

1 x extension 2 x probes

1 x case 1 x user manual

2 x measuring wheel 10 x Reflex stickers 2 x batteries 1.5 V, IEC LR6

- 1 x TACH-10
- 1 x measuring wheel
- 1 x roll of Reflex stickers
- 1 x battery 9 V, IEC 6LR61
- 1 x user manual



Accessories:

Reflex stickers 75 mm long (10 pcs.) Model 1154

Ordering Information:

Description Model Article no.

TACH-10 3730008 TACH-10 Reflex stickers 1154 2145762

Power and Energy Measurement



Energy costs have been rising at increasing speed for many years. For this reason, the notion of energy efficiency is more relevant than ever.

Using corresponding measuring equipment means it is not just possible to measure and document energy consumption, but it is also possible to establish the potential savings from your system.

Products

Power and energy measurement



Included:

- 1 x PQ55A
- 4 x current clamps
- 4 x crocodile clips
- 4 x test leads
- 8 x battery 1.5 V, IEC LR6
- 1 x mains adapter
- 1 x RS-232 cable
- 1 x carry case
- 1 x PC software (English) for Windows 2000/XP/ Vista with in-depth manual (German)
- 1 x user manual



Power Analyzer PQ55A

3-phase power and energy analyzer

- Comprehensive real-time monitoring, recording and analysis of 3-phase systems
- Voltage measurement (true RMS)
- Current measurement (true RMS)
- Power factor measurement
- Phase angle measurement
- Power analysis (active, apparent and reactive power)
- 4. Current clamp for neutral line current measurement
- Suitable for use in housing construction, offices and small businesses

Product information

- Internal 512 kB data logger for long-term monitoring
- Internal measurement memory for max. 99 individual readings
- Multi-functional measured value display for all input signals
- Power supply via batteries or external mains adapter
- Current clamps 3...1000 A, jaw opening 40 mm
- Data transfer via optically isolated RS-232 inter-
- Software for data analysis included

Technical specifications

Voltage measurement:

3 input channels with common reference point "N"

Measurement range 0...600 Vrms Resolution 0.1 V

± (1 % rdg. + 10 D) Accuracy For voltages >80 V

Network frequency 50 Hz (excl. frequency inverter

operation)

Current measurement: Measurement range

3...1000 A phase 1-3 N" measurement range 3...250 A Resolution 0.1 A

Basic accuracy: ± (2.5% rdg. + 15 digits) ±1%

for currents > 3 A

Permissible overload 10 % (for sinusoidal currents)

Active power (P) display range: 0-999.9 kW

Apparent power (S) display range 0 to -999.9 kVA

Reactive power (Q)

0-999.9 kVar display range

Power factor (PF)

display range 0 to +1Phase angle display range 0° to 90°

Frequency measurement (for voltage range >80 V)

Measurement range 45 ... 85 Hz

Phase sequence detection (for conductor voltages > 80 V) Energy measurement (active, apparent and reactive power) Accuracy $\pm (3.5 \% \text{ rdg.} + 20 \text{ digits})$

Data logger 512 kB.

non-volatile memory max. 20,000 readings, max. 10 measurement series max. 12,000 readings per measurement series

Sampling rate adjustable: 5 s, 30 s, 1 min,

Manual

measurement memory max. 99 readings

General information

Display multi-functional LCD

Data transfer via optically isolated RS-232 inter-

face

Frequency range 42-63 Hz approx. 10 VA Power consumption

Pollution degree Protection class IP 30 Protection category Measurement category CAT III/600 V **DIN VDE 0411/** Safety cert.: EN 61010/IEC 61010 Power supply 8 x batteries 1.5 V, IEC LR6

Battery life typ. 50 h Schuko 230 V/12...15 V, 300 mA

Mains adapter Environmental conditions

Operating temperature 0 °C to +50 °C -10 °C to +60 °C Storage temperature

Dimensions

device (W x H x D) 235 x 117 x 54 mm Weight (incl. battery) approx. 730 q

Ordering Information:

Description Model Article no.

Power Analyzer

PQ55A 3037739

* only available for countries with Schuko plug



Measurement accessories for a secure connection



82

88

89

Products

Measurement accessories Cases Replacement parts/fuses The right measurement and testing equipment, as well as the appropriate measurement accessories are important components for carrying out measurements in a safe, reliable manner.

The following measurement accessories contains various test leads, probes, and crocodile clips. This ensures that any user can find the necessary tools that is required for their measurement task.

Replacement parts and fuses are listed on page 103.

Symbols used in this chapter



Length of plug-in technology (e.g. 4 mm)



Silicone test lead



Touch protection



PVC test lead



Disclosure of measurement category in accordance with EN 61010, DIN VDE 0411



Heat-resistant



Current-carrying capacity (e.g. 16 A)



Cold-resistant



Test leads SML 4W 4 mm safety plug-in technology

Accessory information

- Safety test lead, flexible 0.8 mm²
- Current-carrying capacity 16 A
- Measurement category CAT III / 600 V

Design

- PVC insulation
- Two-way safety plugs with onward connection capability in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:						
Description	Model	Article no.				
·						
Test lead ML 4W						
red - 1000mm	307111	2146495				
rea - 1000mm	30/111	2 140433				
black - 1000mm	307121	2146508				
red - 2000mm	307112	3313550				
black - 2000mm	307122	3313561				



















Safety clamp-type test probe SKP 41 set

4 mm plug-in technology

Accessory information

- Approx. 155 x 49 mm
- Current-carrying capacity 2 A
- Measurement category CAT III/1000 V

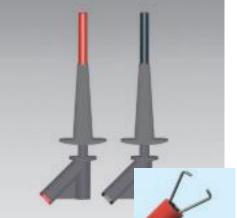
Set, consisting of:

- 1 x SKP 41 gray/red
- 1 x SKP 41 gray/black

- Spring wire grabber with flexible, insulated
- Safety clamp-type test probe with 4-mm safety jack in accordance with DIN VDE 0411/ EN 61010/IEC 61010

Ordering Information:

Model Article no. 370010 2146701











High current safety clamp-type test probe HCP 41 set

4 mm plug-in technology

Accessory information

- Approx. 160 x 60 mm
- Current-carrying capacity 10 A
- Measurement category CAT III/1000 V

Set, consisting of:

- 1 x HCP 41 gray/red
- 1 x HCP 41 gray/black

DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

Model Article no.

370024 2146758

Design • Safety clamp-type test probe with 4-mm safety jack in accordance with

Measuring accessories





Probes PSS set of 2

Accessory information

- Approx. 100 x 21 mm
- Current-carrying capacity 6 A
- Measurement category CAT III/1000 V

Set, consisting of:

1 x probe PSS 2 gray/red

1 x probe PSS 2 gray/black

Design

 Safety probe with 4-mm safety jack in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

Model Article no.

370008 2146694























Probes PSK set of 2

2 mm probe, short version

Accessory information

- Approx. 102 x 10 mm
- Current-carrying capacity 16 A
- Measurement category CAT III/1000 V, CAT IV/600 V (with cover)
- Measurement category CAT II/1000 V (without cover)

Set, consisting of:

1 x probe PSK 2, gray/red (with cover) 1 x probe PSK 2 gray/black (with cover)

4-mm and 2 mm stainless steel probe in accor-

Ordering Information:

Model Article no.

370004 2146675



PVC











Design Safety probe with safety jack

DIN VDE 0411/EN 61010/IEC 61010

Technical specifications

Current-carrying capacity 10 A Current-carrying capacity 10 A

Measurement Category

Probes

CAT IV/1000 V (with cover)
CAT II/1000 V (without cover)
CAT IV/600 V, CAT III/1000 V Crocodile clips

Pollution degree

DIN VDE 0411/EN 61010/IEC 61010 K-type flexible wire probe Safety cert.: Temperature probes

4 mm plug (distance 19 mm)

Probe length approx. 0.9 m -20 °C...+250 °C Temperature range

-20...0 °C: ±2.5 °C or ±1.5% rdg. 0...250 °C: ±1.1 °C or ±0.4% rdg. Accuracy

Ordering Information:

Model Article no.

TL-300 4588279



CAT III

1000 V

CAT IV

600 V

Safety crocodile clip KS 4L set

4 mm plug-in technology

Accessory information

- 94 x 42 mm
- Current-carrying capacity 16 A
- Measurement category CAT III/1000 V, CAT IV/600 V
- Opening: approx. 24 mm

Set, consisting of:

- 1 x KS4L gray/red
- 1 x KS4L gray/black

• Safety crocodile clip with 4-mm safety jack in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering	Information:
----------	--------------

Model Article no.

370012 2146712



Crocodile clips for conductor rails

4 mm safety plug-in technology

Accessory information • 155 x 40.5 mm

- Current-carrying capacity 5 A
- For conductor rails up to 30 mm
- Measurement category CAT III/600 V
- Opening: 0...20 mm/10...30 mm

Design

- Crocodile clip for secure measurement on conductor rails
- 4 mm safety plug-in technology

Ordering Information:					
	Model	Article no.			
red	391511	2146861			
black	391512	2146877			









Unidreh accessory set

4 mm plug-in technology

Accessory information

- Self-retaining probes with clamping range ø 4...8 mm
- Safe contacting, e.g. in CEE 16 A- and CEE 32 A sockets
- Crocodile clip included

Included:

- 1 x crocodile clip, black
- 1 x carrying case

Technical specifications

Current-carrying capacity 8 A Measurement Category

Probes (Astaco) CAT II/1000 V

Crocodile clip (KS4L) Pollution degree Safety cert.:

CAT III/1000 V, CAT IV / 600 V

DIN VDE 0411/EN 61010/

Model

1324

IEC 61010

- 3 x probes, black



UNIdreh accessory set

Ordering Information:



Article no.

2146183

The solution for secure contacts with CES sockets.







1000 V

Professional test lead set for multimeters

2 mm safety probes

Accessory information

- Test lead set with
- 4 mm safety plug-in technology
- Ergonomic handle
- Silicone safety test lead
- Measurement category CAT IV / 1000 V (with cover)
- Measurement category CAT II / 1000 V (without cover)
- 2mm probes

Included:

2 x test leads, approx. 1 m long, 2 covers

Technical specifications

Current-carrying capacity max. 20 A Measurement category CAT IV / 1000 V (with cover)

CAT II / 1000 V (without cover)

Pollution degree DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010

Ordering Information:

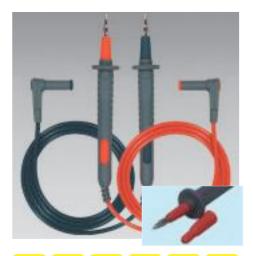
Article no.

Professional test

1306 3313458 lead set

with silicone insulation





1000 V

Professional test lead set for multimeters

4 mm safety probes

Accessory information

- Test lead set with 4 mm safety plug-in technology
- Ergonomic handle
- Silicone safety test lead
- Measurement category CAT IV / 1000 V (with cover)
- Measurement category CAT II / 1000 V (without cover)
- 4mm probes

Included:

2 x test leads, approx. 1 m long, 2 x covers

Technical specifications

Current-carrying capacity max. 20 A

Measurement category CAT IV / 1000 V (with cover)

CAT II / 1000 V (without cover)

Pollution degree

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010

Model Article no.

Professional test

Ordering Information:

2146176 1307 lead set with silicone insulation





Mini crocodile clips

2 mm plug-in technology (fits all 2 mm multimeter probes)

Accessory information

- 41.5 x 13 mm
- Max. voltage 33 V AC / 70 V DC
- Opening: approx. 7 mm

Design

• Miniature crocodile clip

Ordering Information: Article no. Model 2406492 red 390450 black 390451 2406509



Measuring accessories | Measuring accessories



CAT III

1000 V

600 V

TL36A

Test lead set with crocodile clips 2 mm safety probes

- Accessory information
 Test lead set with 4 mm safety technology
- PVC-insulated leads
- Threaded test probes
- Crocodile clips with thread connection, opening approx. 10 mm

Technical specifications

Measurement categories

Test lines CAT III/1000 V, CAT IV/600 V

(with cover) CAT II / 1000 V (without cover)

Current-carrying capacity 10 A

CAT III / 1000 V, CAT IV / 600 V Crocodile clips Pollution degree

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010



Ordering Information:

Model

Article no.

TL36A 3034444



Included:

TL35B

Test lead set

2 x test leads, approx. 1 m long, with covers 2 x crocodile clips

with safety crocodile clips

• Test lead set with 4 mm safety technology

• Safety crocodile clips with thread connection,

2 mm safety probes

Accessory information

PVC-insulated leads

Threaded test probes

opening approx. 16 mm

Technical specifications

Measurement categories

Test lines CAT III/1000 V, CAT IV/600 V

(with cover) CAT II / 1000 V (without cover)

Current-carrying capacity 10 A

CAT III / 1000 V, CAT IV / 600 V Crocodile clips

Pollution degree

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010





2 x test leads, approx. 1 m long, with covers

2 x crocodile clips



Ordering Information:

Model

Article no.

TL35B 3068232











PVC

EU-200

Test lead set

Accessory information

Test lead set with 4 mm safety technology

• 4 mm test probes

Technical specifications

Measurement categories

CAT III / 1000 V Test leads

Probes CAT IV / 600 V, CAT III / 1000 V

(with cover) CAT II / 1000 V (without cover)

Current-carrying capacity 16 A

CAT III / 1000 V, CAT IV / 600 V Crocodile clips

Pollution degree

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010













Included:

2 x test leads

2 x probes (with covers) 2 x crocodile clips

Ordering Information:

Model

Article no.

EU-200

2745046

Measuring accessories











Safety set

Accessory information

Test lead set with 4 mm safety technology

Technical specifications

Current-carrying capacity 16 A Measurement Category

Safety test

CAT III/1000 V leads

Probes CAT III/1000 V, CAT IV / 600 V

(with cover) CAT II / 1000 V (without cover)

Crocodile clip CAT III/1000 V

Pollution degree

Safety cert.: DIN VDE 0411/EN 61010/

IEC 61010

Ordering Information:

Model Article no.

Safety set 370003 2146666

Included:

- 1 x safety test lead, red
- 1 x safety test lead, black
- 1 x probe, red, with cover
- 1 x probe, black, with cover
- 1 x crocodile clip, red
- 1 x crocodile clip, black











Electronics set

Accessory information

• Test lead set with 4 mm safety plug-in technology

Technical specifications

Current-carrying capacity 2A/6A/16A

Measurement Category

Safety test

CAT III/1000 V leads **CAT III/1000 V Probes** Crocodile clip CAT III/1000 V Clamp-type test probes CAT III/1000 V

Pollution degree

Safety cert.: DIN VDE 0411/EN 61010/

IEC 61010

Included:

- 1 x safety test lead, red, 16A
- 1 s safety test lead, black, 16A 1 x crocodile clip, red, 16A
- 1 x crocodile clip, black, 16A
- 1 x safety clamp-type test probe, red, 2A
- 1 x safety clamp-type test probe, black, 2A
- 1 x safety probe, red, 6A
- 1 x safety probe, black, 6A

Ordering Information:

Model

Article no.

3313577

370001 Electronics set













Electrician set

Accessory information

• Test lead set with 4 mm safety plug-in technology

Technical specifications

Current-carrying capacity 6A/10A/16A

Measurement Category Safety test

CAT III/1000 V leads CAT III/1000 V Probes Crocodile clip CAT 111/1000 V Clamp-type test probes CAT III/1000 V

Pollution degree

DIN VDE 0411/EN 61010/ Safety cert.:

IEC 61010

Included:

- 1 x safety test lead, red, 16A
- 1 s safety test lead, black, 16A
- 1 x safety probe, red, 6A
- 1 x safety probe, black, 6A
- 1 x safety clamp-type test probe, red, 10A
- 1 x safety clamp-type test probe, black, 10A
- 1 x crocodile clip, red, 16A 1 x crocodile clip, black, 16A

Ordering Information:

Article no. Model

370000 2146653 Electrician set



1150 Carrying case

Material: Nylon, upholstered, fasteners, Lanyard Internal dimensions: 200 x 150 x 40 mm

Model: 1150 Article no.: 2145755



1193
Professional carry case

Material: Nylon, upholstered, fasteners, Neck strap

Internal dimensions: 300 x 400 x 65 mm

Model: 1193 Article no.: 2145812



CC-ACDCCarrying case

Material: Nylon, carrying strap, belt loop External dimensions: 300 x 120 x 60 mm

Model: CC-ACDC Article no.: 2732643



1175 Carrying case

Material: Nylon, upholstered, belt loop Internal dimensions: 295 x 80 x 50 mm

Model: 1175 Article no.: 2145796



VC30A
Carrying case

Material: Imitation leather, carrying strap External dimensions: 200 x 80 x 45 mm

Model: VC30A Article no.: 3068280



SV-UCarrying case

Material: Nylon, carrying strap, belt loop External dimensions: 300 x 120 x 60 mm

Model: SV-U Article no.: 2733511



CC-VP-7xx

Carrying case

Material: Nylon, upholstered, fasteners, Hand Strap. Suitable for 2100 series (Alpha/Beta/Gamma)

and the VP-700 series

Internal dimensions: 280 x 80 x 45 mm

Model: CC-VP-7xx Article no.: 3889931



VC221B

Carrying case

Material: Imitation leather, carrying strap External dimensions: 220 x 115 x 60 mm

Model: VC221B Article no.: 3068271

Fuses



Fuses

Nominal	Feature	Nominal voltage	Dimensions	Packing unit	Item Number
500mA	fast-acting	1000V	6.3x32mm	4-pack, FP 500	1990695
500mA	fast-acting	500V	6.3x32mm	FP520	2156748
500mA	fast-acting	500V	6.3x32mm		3504681
500mA	fast-acting	1000V	6.3x32mm		2156753
630mA	fast-acting	500V	6.3x32mm		4223534
1A	fast-acting	600V	10x38mm		4223398
10A	fast-acting	600V	6.3x32mm		3814230
10A	fast-acting	500V	6.3x32mm		3504670
10A	fast-acting	1000V	10x38mm	2-pack, FP100	1990707
11A	fast-acting	1000V	10x38mm		803293
12.5A	fast-acting	500V	6.3x32mm		2156681
15A	fast-acting	500V	6.3x32mm		2156727





Appendix



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Things worth knowing about measurement categories, pollution degree, labeling, and symbols

Measurement categories:

Measurement category was referred to as overvoltage category in an earlier publication of DIN VDE 0411-1:1994.

0 – no measurement category:

Several types of testing and measurement circuits are not intended for direct connection to the mains supply. These are circuits, which are not directly connected to the mains, e.g. circuits within devices after the input transformer. No standard values for overvoltage are defined for such circuits.

CAT II - Measurement category II:

Operating or testing equipment that is connected between the sockets and the consumers. Only small overvoltages through lightning strikes have to be taken into account for CAT II measurement category equipment, although overvoltages caused by switching operations can arise. Short circuit currents of up to 10kA must be expected. Examples for operating equipment within this category include electrical equipment connected to sockets.

CAT III - Measurement category III:
Operating or testing equipment that is connected between the energy meter and the sockets. In the case of such operating equipment, limited overvoltages can arise through lightning strikes, and short circuit currents of up to 50 kA must be expected. Examples for operating equipment in this category includes building installations, fuses, circuit breakers, residual current devices, switches, sockets, or permanently installed operating equipment.

CAT IV - Measurement category IV:

Operating or testing equipment that is connected between the source of the low-voltage network outside the building and the energy meter. Stronger overvoltages and lightning strikes must be taken into account with such operating equipment. Examples of operating equipment belonging to measurement category IV include cables in front of the energy meter, service lines, overhead lines, and underground cables. Short circuit currents of over 50 kA must be expected.

Pollution Degree

The insulation capability of measurement and testing equipment can be severely reduced by surface contamination. Particles of dust and soot, or water can create conductive connections and considerably reduce the surface resistance of the insulation.

Measurement category 0 П IV Supply of access cables counter Supply of Secondary building access cables counter Earth cable Secondary building Supply of Transforme cables counter Earth cable Other circuits that Circuits connected MAINS Source of the MAINS installation to MAINS socket distribution parts are not directly outlets, and similar of the building in the building MAINS points in the MAINS installation

Pollution Degree 1

There is either no contamination, or only dry contamination with no conductivity.

This pollution has no effect.

Pollution Degree 2

Usually, only non-conductive contamination is found. However, temporary conductivity due to condensation should be expected on occasion.

Operation site, e.g. industrial, or in a laboratory.

Pollution Degree 3

Either conductive contamination takes place, or there is dry, non-conductive contamination which becomes conductive due to condensation that is expected.

Operation site, e.g. heavy industry, construction sites, brief usage in the open air.

Labeling and symbols

- Warning of a hazardous area, observe the instruction manual
- Caution! Hazardous voltage, risk of electric shock
- Double or reinforced insulation in accordance with Class II IEC 61140 (Protection class II)
- Conformity mark, confirms adherence to the relevant guidelines and regulations applicable to the respective equipment

Protection types

In electronic measurement and test devices, and other operating equipment, the protection against foreign bodies (dirt) and water is indicated by two digits after the short form IPxx. The first digit can be from 0 to 6. This indicates the protection against the ingress of foreign bodies. 0 indicates no protection, 6 indicates protection against the ingress of dust. The second digit can be from 0 to 8. This indicates the protection against the ingress of water. 0 indicates no protection, 8 indicates protection against the ingress of water when submerged.

Protection Levels

- Protection class I:
 Protection via protective earth
- Protection class II:
 Protection via protective insulation
- Protection class III:
 Protection via safety extra-low voltage

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PRM-5-EUR

Phase rotation indicator

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Swivel current clamp (AC)

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Temperature / RH data logger

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Tachometer

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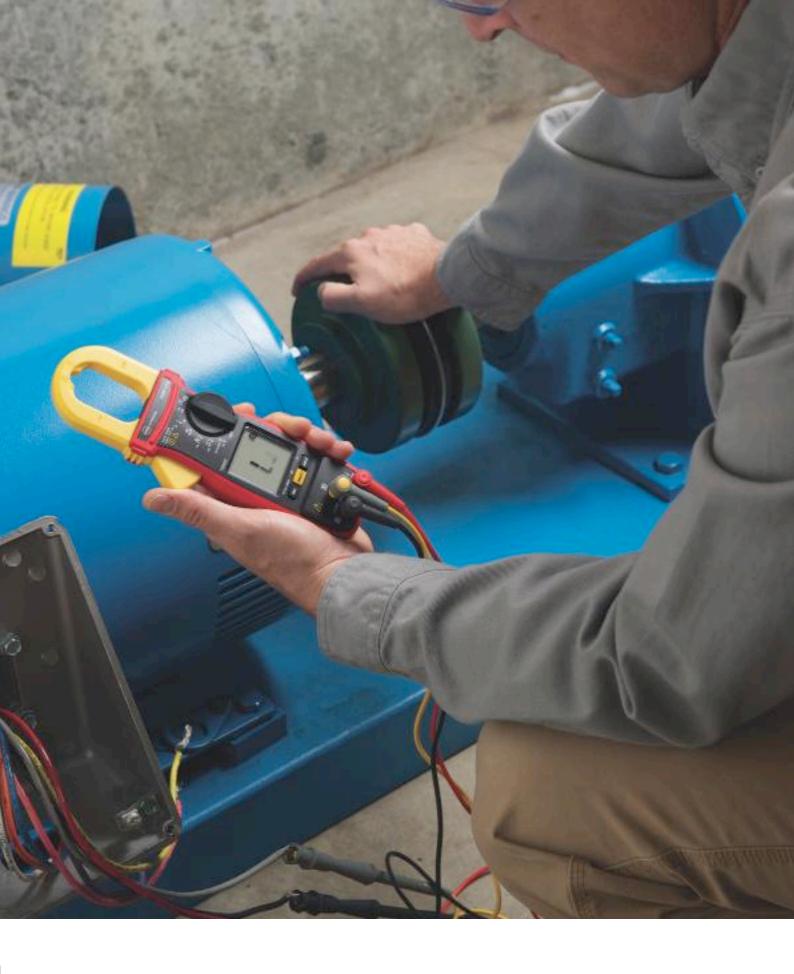
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