

2015



Product Catalogue



Electrical Test Equipment from Beha-Amprobe



Two of the most well known brands in the US and Germany have now joined forces to become an even stronger brand and are committed to provide the best quality tools and support for the customer. Beha-Amprobe offers wide range of cost-effective, innovative test equipment specifically designed to make the electrician's job faster and easier.

Beha-Amprobe products are sold and supported by a wide range of dealers and are backed up by a professional support service. The vast array of Beha-Amprobe products means that the electrician has a one stop shop for quality, value-priced products which include Installation Testers, Voltage Detectors, Digital Multimeters, Clamp Meters, Thermometers and Two Pole Testers - one of the largest ranges available to the electrical contractor and engineer.

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Clamp Meters



Beha-Amprobe is renowned around the world for innovative Clamp Meters. Please find here a selection of our high performance Clamp Meters.

ACD-10 PLUS

Current clamp up to 600 A (AC)
with thin jaws of 25 mm



AMP-200 series

TRMS Clamp Meters



AMP-210-EUR
AC Clamp Meter

AMP-220-EUR
AC/DC Clamp Meter

The Modern Evolution of the Professional Clamp Meter

Beha-Amprobe's AMP-210-EUR and AMP-220-EUR 600 A TRMS Clamp Meters offer a complete range of measuring functions for today's modern electrical environments.

Both models feature True-RMS sensing, low pass filters and fast response processors for quick, error-free measurements. The Amp-Tip function allows for precise measurement of current down to the tenth of an Amp, enabling accurate current measurement of both large and small diameter wires.

- True-RMS
- Low Pass Filter
- Amp-Tip Functions
- Non-Contact Voltage Detection (NCV)
- Audible Continuity and Diode Test
- Data Hold, Relative Zero
- Large LCD Backlit Display
- Safety Rated: CAT III 600 V

AMP-300 series

Motor Maintenance

TRMS Clamp Meters



AMP-310-EUR
AC Clamp Meter
HVAC

AMP-320-EUR
AC/DC Clamp Meter
Electrical Motor
Maintenance

AMP-330-EUR
AC/DC 1000 A Clamp Meter
Industrial Motor Maintenance

The Modern Evolution of the Professional Clamp Meter

Beha-Amprobe's AMP-300-EUR Series True-RMS Clamp Meters offer customers a complete range of measuring functions for modern industrial environments, motor testing and HVAC applications.

All models feature True-RMS sensing, low pass filters and fast response processors for quick, error-free measurements. The Amp-Tip function allows for precise measurement of current down to the tenth of an Amp, and a third input jack enables motor rotation and 3-phase sequence testing.

- True-RMS
- Motor Testing Capabilities
 - Motor rotation
 - 3-phase sequence testing
 - Inrush current monitoring during motor start up
- HVAC Features
- Amp-Tip Function
- Low Pass Filter for variable frequency drives
- Safety Rating: CAT III 600 V (AMP-310-EUR, AMP-320-EUR) CAT IV 600 V, CAT III 1000 V (AMP-330-EUR)

ACD-14 PLUS

Current clamp with dual display up to 600 A (AC)



- Current, voltage and resistance measurement
- Continuity test with beeper
- Capacitance and frequency measurement
- Temperature measurement
- Measurement of inrush current
- Automatic range selection
- Integrated measurement memory (data hold and MAX hold)
- Jaw opening: 26 mm
- Auto power-off

Additional Features

- Dual display
- A measurement range for direct measurement of ionisation currents in heating systems

ACDC-400

Clamp Multimeter 400A (AC/DC)



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

Additional Features

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

ACD-20SW

Swivel Clamp Meter 400A (AC)



- Measures current, voltage and resistance
- Audible continuity test
- Diode test
- Auto and manual ranging
- Measured data storage (data hold)
- Accommodates conductors up to 30 mm in diameter
- Auto power-off

Additional Features

- 180 degree rotating head for the perfect display
- Advanced VoltTect non-contact voltage detection

ACDC-100

Clamp Multimeter 1000A (AC/DC)



- Current, voltage and resistance measurement
- Continuity test with beeper
- Measurement of inrush current (30 ms)
- Automatic and manual range selection
- Integrated measurement memory (data hold)
- Jaw opening: 50 mm
- Auto power-off

Additional Features

- Large, clear display

ACD-50NAV

600A AC Navigator Clamp



- THD measurement
- Measurement of the inrush current
- Display of the rotary field direction
- Automatic measuring range selection
- TRMS measurement
- Current, voltage and resistance measurement
- Measurement of active power (W)
- Measurement of the power factor $\cos \phi$
- Acoustic continuity test
- Capacity and frequency measurement
- Memory, data hold
- Peak value measurement
- Low Pass frequency filter
- Large bargraph display with background light
- Clamp opening 37 mm
- Auto power-off

Additional Features

- Real effective value measurement AC+DC (TRMS)
- Contactless voltage detection
- Measurement point illumination by means of white LED

ACDC-54NAV

1000A AC/DC TRMS Navigator Clamp



- Current, voltage and resistance measurement
- Acoustic continuity test
- Capacity and frequency measurement
- Temperature measurement
- Measurement of effective power (W)
- Measurement of the power factor $\cos \phi$
- Measurement of the inrush current
- Display of the rotary field direction
- Automatic measuring range selection
- Memory, data hold
- Peak value measurement
- Low Pass frequency filter
- Large bargraph display with background light
- Clamp opening 42 mm
- Auto power-off

Additional Features

- Real effective value measurement AC+DC (TRMS)
- Contactless voltage detection
- Measurement point illumination by means of white LED

AC50A

Leakage Clamp Meter (AC)



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

Additional Features

- Minimum resolution: 0.01 mA
- Range of applications: measurement of leakage or fault currents, current consumption of devices in (customer) service sector without breaking the circuit

LH41

Current Clamp Meter AC/DC



- Current measurement from 1 mA AC and DC
- Manual range selection
- Jaw opening: 19 mm
- Automatic zero-point (DC measurement range)
- Integrated 5 s measurement memory (data hold)
- Auto power-off

Additional Features

- Minimum resolution: 1 mA
- Shielded against external interference

Digital Multimeters



Beha-Amprobe offers a wide range of Digital Multimeters that offer functions for every application. These tough meters are designed to be a reliable, feature-rich, and rugged solution for taking critical measurements in residential, HVAC, electrical and industrial settings at breakthrough affordability.



AM-500-EUR

Compact Size DMM



- Autoranging feature automatically sets up voltage, current, and resistance ranges for you
- Voltage up to 600V AC/DC
- Resistance
- Audible continuity
- Diode test
- Data hold
- Auto power-off
- Low battery warning
- Safety rated: CAT III 600V

Contents

- Model AM-500 EUR
- Test leads
- AAA x 2
- Users manual

AM-510-EUR

DMM



- 600V AC/DC
- 10A AC/DC
- Capacitance and frequency measurement
- Temperature measurement
- Automatic and manual range selection
- Auto power-off
- Battery test (1,5V and 9V)
- Non-contact voltage detection
- Built-in flashlight

Contents

- Model AM-510 EUR
- Test leads
- 1 x 9V (6F22) battery (installed)
- Users manual

AM-520-EUR

DMM



- 750V AC/DC
- 10A AC/DC
- Capacitance and frequency measurement
- Temperature measurement
- Automatic and manual range selection
- Auto power-off
- Non-contact voltage detection
- Built-in flashlight

Contents

- Model AM-520 EUR
- Test leads
- 1 x Temperature probe
- Carrying case
- 1 x 9V (6F22) battery (installed)
- Users manual
- Hang strap

AM-530-EUR

DMM TRMS



- AC 750V/DC 1000V
- 10A AC/DC
- TRMS measurement
- Capacitance and frequency measurement
- Temperature measurement
- Automatic and manual range selection
- Auto power-off
- Non-contact voltage detection
- Built-in flashlight

Contents

- Model AM-530 EUR
- Test leads
- 1 x Temperature probe
- Carrying case
- 1 x 9V (6F22) battery (installed)
- Users manual
- Hang strap

AM-540-EUR

DMM



- 1000V AC/DC
- 10A AC/DC
- Low pass filter for variable frequency drives
- Capacitance and frequency measurement
- Temperature measurement
- Automatic and manual range selection
- Auto power-off
- Non-contact voltage detection
- Built-in flashlight

Contents

- Model AM-540 EUR
- Test leads
- 2 x Temperature probe
- Carrying case
- 1 x 9V (6F22) battery (installed)
- Users manual
- Hang strap

AM-550-EUR

DMM TRMS



- 1000V AC/DC
- 10A AC/DC
- TRMS measurement
- Low pass filter for variable frequency drives
- Capacitance and frequency measurement
- Temperature measurement
- Automatic and manual range selection
- Non-contact voltage detection
- Built-in flashlight

Contents

- Model AM-550 EUR
- Test leads
- 2 x Temperature probe
- Carrying case
- 1 x 9V (6F22) battery (installed)
- Users manual
- Hang strap

DM73C

Pen Probe Style

Digital Multi-Tester



- 600 V AC and 600 V DC ranges
- Cat III 300 V safety rated
- Cat II 600 V safety rated
- Improved DC basic accuracy 0.5%
- Resistance to 34 MW
- Continuity beeper
- Includes alligator clip, ground test lead, spare probe tip and installed batteries
- 3400-count digital display plus analog bargraph
- Auto power-off
- UL 3111-1 listed

PM55A

Digital Multimeter



- AutoTect™ feature directs the meter to know if it is measuring AC volts, DC volts or resistance with no user interface
- The AutoTect™ feature has lower input impedance which zero out ghost voltages
- Measures AC/DC current, capacitance, frequency, continuity with beeper plus includes Voltect™, a built-in, non-contact voltage detector
- Large oversize digital display
- Protective silicon holster included, attached test leads, battery, deluxe carry case and manual

Electrical Testers



The Beha-Amprobe 2100 series are rugged, easy-to-use two pole voltage testers for voltage and continuity checks. Built tough for use in industrial and commercial environments.



2050-D

MAGNO-VOLTfix

Non-contact voltage tester



- Optical signal for detecting magnetic fields
- Non-contact, optical and acoustic detection of AC voltages
- Fast, accurate detection of cable fractures in exposed cables, for example cable drums and extension cables
- Compact and handy design
- Wide range of applications in business and industry

2052-D/2054-D

VOLTfix plus

Non-contact voltage tester



- Non-contact, optical and acoustic detection of AC voltages
- Fast, accurate detection of cable fractures in exposed cables
- Reliable, automatic self-test
- Compact and handy design
- Wide range of applications in business and industry
- On / off switch
- Integrated, high-quality screwdriver insert (2054-D model only)

ECB50A

Circuit Breaker Finder



- Fast and accurate locating of fuses and assignment to circuits
- Locating / tracing of cables in walls
- Set consisting of transmitter and receiver in robust carrying case
- Transmitter signal displayed optically and acoustically by the receiver
- Transmitter with integrated Schuko receptacle enabling easy connection to mains socket
- Simple switching between fuse and cable finder function
- Continuous sensitivity adjustment of receiver

*Please contact your local distributor for availability. Circuit breaker finder ECB50A-E with UK plug available. Types ECB50A-FGIS and SF-100 with Schuko plug available.

2100-Alpha/2100-Beta

Two Pole Voltage Tester



- Voltage Test: Display by LEDs 12...690 V AC/DC
- Response time: LED < 0.1 s
- Automatic ac/dc voltage detection, indication of polarity
- Audible indication when detected voltages above 50 VAC and 120 VDC
- Two pole phase rotation indication
- Switchable load of 140 W with two push buttons
- Test of 30 mA RCD by push buttons
- Single pole test for phase polarity
- Continuity test with visual (LED) and audio indication
- Work light for dark environment
- IP 64 splash and dust proof
- Protective probe caps for reducing the risk of injury
- Quick single hand test on mains socket with 19 mm contact distance
- GS approved, built according to DIN VDE 0682-401 and EN 61234-3:2010
- Safety rated CAT IV 600 V, CAT III 690 V
- Voltage Test: Display by LED and LCD display 12...690 V AC/DC (2100-Beta model only)

Multifunction Installation Testers



The Telaris ProInstall Series offers testers for virtually all electrical wiring installations - residential, commercial or industrial. With all the test functions you need, from phase rotation test to built-in memory for documenting results, the Telaris ProInstall series is the complete solution for professionals who demand safety and accuracy.



Telaris ProInstall -100

Multifunction Installation Tester



The everyday tester for electrical installers. Ideal for domestic applications. Covers the basic requirements for testing.

- Lightweight and compact for portability
- Simple, intuitive interface
- Fast, high current loop test
- No trip loop test, does not trip RCDs
- Easy to read, large backlit LCD display
- Data logging capabilities with PC download
- Tests electrical installations per regulatory standards: DIN VDE 0100, ÖVE E 8001, NIV/NIN 2010, BS 7671, IEC 60364
- Safety rated to: CAT III 500V, CAT IV 300V

Additional Features

- Insulation resistance measurements up to 1000V DC
- Low Ohm resistance
- Loop impedance
- Test dc sensitive RCDs: Type A
- Phase sequence

Available in:

ProInstall-100-EUR, ProInstall-100-D,
ProInstall-100-CH, ProInstall-100-DK

*Check with your local distributor for availability.
For UK: please contact your local distributor for
specific 17th Edition test solutions.

Telaris ProInstall -200

Multifunction Installation Tester

w/type-B RCD & Earth Test



The ideal tester for professionals with RCD type B, earth resistance and additional memory, the ProInstall-200 is the ideal tester for professional electricians working in both domestic and commercial applications.

- Lightweight and compact for portability
- Simple, intuitive interface
- Auto-sequence measurements allow more efficient testing
- Fast, high current loop test
- No trip loop test, does not trip RCDs
- Easy to read, large backlit LCD display
- Data logging capabilities with PC download
- Tests dc sensitive RCDs (type B)
- Tests electrical installations per regulatory standards: DIN VDE 0100, ÖVE E 8001, NIV/NIN 2010, BS 7671, IEC 60364
- Safety rated to: CAT III 500V, CAT IV 300V

Additional Features

- Insulation resistance measurements up to 1000V DC
- Low Ohm resistance
- Loop impedance
- Earth ground resistance
- Test dc sensitive RCDs: Type A and B
- Phase sequence

Available in:

ProInstall-200-EUR, ProInstall-200-D,
ProInstall-200-CH

*Check with your local distributor for availability.
For UK: please contact your local distributor for
specific 17th Edition test solutions.

Temperature Measurement



The Beha-Amprobe series of infrared and contact thermometers are a complete line of high performance diagnostic tools designed for HVAC/R, electrical, industrial maintenance applications.



IR-710-EUR

Infrared Thermometer (10:1)



- Extremely accurate and reliable
- Precise measurement with distance to spot ratio 10:1
- Wide temperatures ranges available up to -18°C to 380°C (-0°F to 716°F)
- Rapid response time
- Laser pointer for accurate targeting
- 8 seconds auto display hold for easy read-out
- Adjustable emissivity for measuring a variety of materials
- Dual LCD display with backlight
- Selectable °F and °C

IR-712-EUR

Infrared Thermometer (12:1)

Similar as IR-710-EUR, with additionally:

- Extremely accurate and reliable
- Precise measurement with distance to spot ratio 12:1
- Wide temperatures ranges available up to -18°C to 550°C (-0°F to 1022 °F)

IR-730-EUR

Infrared Thermometer (30:1)



- Extremely accurate and reliable
- Precise measurement with distance to spot ratio 30:1
- Wide temperatures ranges available up to -32°C to 1250°C (-26°F to 2282°F)
- Rapid response time
- Laser pointer for accurate targeting
- 8 seconds auto display hold for easy read-out
- Adjustable emissivity for measuring a variety of materials
- Dual LCD display with backlight
- Selectable °F and °C

IR-720-EUR

Infrared Thermometer (20:1)



- Extremely accurate and reliable
- Precise measurement with distance to spot ratio 20:1
- Wide temperatures ranges available up to -32°C to 1050°C (-26°F to 1922°F)
- Rapid response time
- Laser pointer for accurate targeting
- 8 seconds auto display hold for easy read-out
- Adjustable emissivity for measuring a variety of materials
- Dual LCD display with backlight
- Selectable °F and °C

IR-750-EUR

Infrared Thermometer (50:1)



- Extremely accurate and reliable
- Precise measurement with distance to spot ratio 50:1
- Wide temperatures ranges available up to -50°C to 1550°C (-58°F to 2822°F)
- Rapid response time
- Laser pointer for accurate targeting
- 8 seconds auto display hold for easy read-out
- Adjustable emissivity for measuring a variety of materials
- Dual LCD display with backlight
- Selectable °F and °C
- Stores up to 99 data points
- Thermocouple input
- USB interface

IR-450-EUR

Pocket Infrared Thermometer



- IR pocket thermometer with 8:1 distance to spot ratio
- Selectable °F / °C
- Holds temperature reading for 10 seconds
- Bright laser pointer
- Built-in LED flashlight to illuminate dark areas

IR608A

Infrared Thermometer Laser Pointer



- Non-contact temperature measurement
- Switchable between °C and °F measurement
- Integrated measurement memory (data hold)
- Backlight
- Distance to spot size ratio: 8:1
- Auto power-off

Additional Features

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

TMD-50

Thermometer TMD-50, Type K



- Dual (Temperature measurement with connection for two sensors)
- -60 to 1350 °C, -58 to 2498 °F
- Measurement of the temperature difference
- Connection for two temperature sensors type K
- Switchable for measurement in °C or °F
- Integrated measurement memory (data hold)
- MIN/MAX and relative value measurement
- Measurement of the average temperature
- Backlit display
- Auto power-off

Additional Features

- Best precision 0.1%
- T1-T2 (temperature difference)
- Shock and impact-resistant by standard protective cover

TH-3

Relative Humidity Temperature Meter



- Dual display
- Relative function monitors humidity and temperature changes
- Extended probe stem to easily access air ducts
- Min/Max readings Data Hold
- Capacitive sensor with protective cover
- Auto power-off
- Soft carrying case

Other test equipment



Need something a little different?
Always check the Beha-Amprobe range.
This section has a selection of other
Beha-Amprobe test equipment for
electrical and HVAC applications.



LAN-1

Lan Cable Tester



- Test pin configuration for:
10/100 base -T cable
10 base-2 cable RJ45
modular cables AT&T
258A cable EIA/TIA
568A/568B cables
Token Ring Cable
- Verify the cable wiring for continuity, opens, shorts or incorrect wiring
- Test installed cable on wall plate or the patch panels by using the Remote Termination module
- Perform Loopback Test or Remote Test
- Buzzer sound warning for error condition in cable
- Two sets of LED lights for Source and Test indication

GT-400

Portable Appliance Tester



- Intuitive and simple to use
- Easily portable for on the go testing
- Fast answers - Instantly measures safety and integrity of electrical appliances
- Measures earth ground resistance
- Insulation resistance measurements up to 500V
- Substitute Leakage Current measurements
- Protective Conductor Current measurements
- Rugged with high quality construction for years of service
- Tests appliances for safety in accordance with the IET Code of Practice, EN 61010/ DIN VDE 0701-0702 (BGV A3) Safety Standards

*In three types available: German/ Swiss/UK Schuko receptacle. Please check with your local distributor for availability.

LM-100

Light Meter Manual Ranging



- Light measurement
- 0-200,000 lux
- Manual range selection
- Silicon sensor
- Integrated measurement memory (data hold, MAX)

LM-120

Light Meter with Auto Ranging



- Measure in Lux or Footcandles, front panel switchable
- Measuring Range to 200,000 Lux or 20,000 Foot candles
- Silicon photodiode sensor and filter
- Data Hold to freeze reading on the digital display
- MIN / MAX ability to show high and low readings
- Autoranging plus Manual Range
- Zero function to null display before a reading
- Auto power-off

TMA10

Anemometer Thermometer

Anemometer with remote vane



- Measure CFM by inputting the vent dimensions
- Obtain air flow average by taking up to eight data points
- Vane has three foot cord for measurement flexibility
- Deluxe carrying case
- Measure air velocity or air flow
- RS232 interface output with optional software and cable, TM-SWA
- Continuous moving average for up to 2 hours

TACH20

Combo Tachometer



- Measures rotational and surface speed
- Built-in memory
- Digital Display
- Auto power off function
- Easy to select units and mode functions
- Contact and non-contact measurement
- Select rpm using infrared beam or adapter: m/min, m/sec, ft/min, ft/sec, in/min, m, ft, and in.
- Includes 6 adapters, carrying case, reflective tapes, batteries and user manual

SM-10

Sound Meter



- Measurement of sound level
- 30-130 dB
- 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
- Backlight

PQ55A

Compact Power Analyser



- Comprehensive real time monitoring, recording and analysis of three phase power systems
- True-rms voltage and current measurement
- Power Factor and phase angle results
- Power Analysis (apparent, active and reactive power)

LT-10-EUR

Lamp Tester



- Determine if fluorescent light bulbs are operational prior to installation or removal
- Verify voltage presence without the need for another tool with built-in VolTect™ non-contact voltage detection
- Increase productivity by minimising trips up and down a ladder
- All tests performed with easy, single button operation
- Ultra-compact design for portability
- Industry leading 122 cm (48") removable, fully retractable antenna
- Insulated antenna sleeve for safe testing

TMA-21HW

Hot Wire Anemometer



- Highly accurate thermometer with 0.1% basic accuracy for precise measurements
- Fast response telescopic probe for use in hard to reach places
- Air Flow Volume (CFM, CMM)
- Instant, Avg, 2/3 Vmax Flow Measurements
- Relative Humidity and Temperature Measurement
- Data hold & MAX/MIN
- Data Memory and Real function (99 sets)
- 512KB auto data logging capacity
- Large back-lit LCD display with 5 parameters
- Auto Power ON / OFF setting
- USB interface
- Simple and safe to use

Solar-100

Radiation meter



- Measuring solar radiation
- Determining the light transmittance of windows and panes (g factor)
- Switchable display W/m^2 or $BTU / (ft^2 \times h)$
- Manual measurement range selection
- Integrated measured value memory (data hold)
- MAX/MIN function
- Manual zero calibration

Solar-4000

Peak performance and I-V characteristic curve analyzer



- Quick and precise measurement - approx. 15...30 s
- Simple identification of errors and defects affecting PV systems and modules
- Very light and easy-to-handle
- Wireless communication between ANALYZER and SENSOR
- Contactless temperature measurement
- Measurement of monocrystalline and polycrystalline cells (measurement of thin-layer modules on request, without STC computation)
- Easy menu guidance via colour touch screen
- Reporting: system and maintenance certificates
- Comparison check
- Built-in battery
- Evaluation software (5000 data points)
- Regularly available module data updates free of charge
- Quick and easy sensor assembly using quick-fix mounting

AT-3500

Cable Locator



- Locates underground wires, cables and pipes
- Simplified tracking feature allows localization of tap or pipe damage
- Determine the location, depth and orientation of metallic wires
- Optical and acoustic indicator
- Large display with easy menu and backlight function
- Rugged design for use in bad weather and harsh environments

Additional Features

- Ready for use with transmitter, receiver and test accessories
- Three testing modes available for best accuracy:
 - Passive power
 - Passive radio
 - Active with signal generator
- Transmitter with voltage proof output
- Extensive accessories available

MT-204-S

Machinery Tester



- High-voltage test
- 10 A and 0.2 A test current for protective earth resistance
- Loop/line impedance measurement up to 440 V
- Display of short circuit current (PSC)
- Insulation measurement with 250 V to 500 V test voltage
- Residual voltage measurement; display of discharge voltage/time
- Integrated high-voltage test (can be deactivated via key switch)
- In accordance with EN 60204-1
- Measurement of protective earth resistance

Technical Specifications

Multifunction Installation Testers

Specifications	
Display	LCD display , 4 -digit, 9999 counts
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
Voltage range	100 .. 500 V 50/60 Hz
Test about	7 A (at 230 V)
Internal line resistance	0.15 ... 20/200/200 Ω
	0.01 / 0.1 / 1 Ω
Short-circuit current	0 .. 10 kA
Input voltage range	100 .. 500 V 50/60 Hz
Test current	7 A (at 230 V)
	5 mA (at 230 V)
Insulation resistance	0 .. 1000 milliohms
	0.01 / 0.1 / 1 M
Test voltage	100, 250 , 500, 1000 V DC
Low Ohm resistance	0.05 ... 20/200/2000 Ω
	0.01 / 0.1 / 1 Ω
Test current	> 200 mA DC
RCD/FI-Nominal residual current factors	10 , 30, 100 , 300, 500, 1000 mA
	x0.5, x1, x5 and AUTO
RCD / FI- types:	standard AC , selective, pulsed signal, Type B (only Proinstall -200)
Measurement functions	contact voltage , trip time , tripping current test, increasing test
Contact voltage	0 .. 50V
Tripping time	1 .. 510 ms / 1 ms
Tripping current measurement	30 .. 110% of IDN (in 10 % increments)
Phase sequence test	
Input voltage range	100 .. 500 V 50/60 Hz
Ground resistance	0.05 Ω ... 200 /2000 Ω
Probe resistance	0.1 ... 52 K Ω
Maximum measuring current	3.5 mA
Measuring voltage	25 V
Frequency	128 Hz / 140 Hz
General specifications	
Memory	400 or 1000 readings
Interface	IR / USB
Built according to	DIN VDE 0411/EN61010/IEC61010 DIN VDE 0413/EN61557/IEC61557
Measurement Category	CAT III/500 V , CAT V IV/300
Degree of Pollution	2
Protection Class	IP 40
Power Supply	6 x 1.5 V battery , IEC LR6
Dimensions	110 x 260 x 130 mm
Weight	approx 1500g (incl. batteries)

Clamp-on Meters

Clamp Multimeter Comparison Guide

	AMP-200 series	AMP-300 series	ACD-14 Plus	ACDC-400	ACD-20SW
Display	3-5/6 Digit, 6000 Count	LCD, 3½ Digit, 3999 Count	LCD, 3½ Digit, 4000 Count	LCD, 3½ Digit, 3999 Count	LCD, 3½ Digit, 3999 Count
Measurement Ranges	Current AC	0.01 - 600 A	0.01 A - 400 A	0.01 - 600 A	0.01 A - 400 A
	Tolerance	±(1.8% rdg. +5 Digits)	±(1.8% rdg. +5 Digits)	±(1.9% rdg. +8 Digits)	±(1.5% rdg. +3 Digits)
	Frequency Range	50 - 100 Hz	50 - 100 Hz	50/60 Hz	50/60 Hz
	Current DC	0.01 A - 600 A*	0.01 A - 600 A**	-	0.01 A - 400 A
	Tolerance	±(2% rdg. +5 Digits)*	±(2% rdg. +5 Digits)**	-	±(1.5% rdg. +3 Digits)
	Voltage AC	0.001 - 600 V	0.1 mV - 600 V	0.001 - 600 V	0.1 mV - 600 V
	Tolerance	±(1% rdg. +5 Digits)	±(1% rdg. +3 Digits)	±(1.5% rdg. +5 Digits)	±(1% rdg. +3 Digits)
	Frequency Range	50 - 60 Hz	50 - 60 Hz	50 - 400 Hz	50 - 500 Hz
	Voltage DC	0.1 - 600 V	0.1 mV - 600 V	0.1 - 600 V	0.1 mV - 600 V
	Tolerance	±(1% rdg. +5 Digits)	±(1% rdg. +5 Digits)	±(0.5% rdg. +3 Digits)	±(0.8% rdg. +2 Digits)
	Continuity	R < 10 Ω	R < 10 Ω	R < 120 Ω	R < 40 Ω
	Frequency	50 - 400 Hz	50 - 400 Hz	0.001 Hz - 100 kHz	-
	Resistance	0.1 - 60 MΩ	0.1 Ω - 60 MΩ	0.1 - 40 MΩ	0.1 Ω - 40 MΩ
	Tolerance	±(0.8% rdg. +6 Digits)	±(1% rdg. +3 Digits)	±(0.8% rdg. + 6 Digits)	±(1% rdg. +3 Digits)
	Capacity	0.1 nF - 2500 µF	0.1 nF - 2500 µF	0.1 nF - 3000 µF	-

Features	Jaw Opening	Ø 30 mm	Ø 30 mm	Ø 26 mm	Ø 30 mm	Ø 30 mm
	Pollution Degree	2	2	2	2	2
	Overvoltage Category	CAT III/600 V	CAT III/600 V	CAT III/600 V	CAT III/600 V	CAT III/600 V
	Safety	EN 61010/IEC 61010	EN 61010/IEC 61010	EN 61010/IEC 61010	DIN VDE 0411, EN 61010, IEC 61010	DIN VDE 0411, EN 61010/IEC 61010
	Power Supply	2 x AAA Battery 1.5 V	2 x AAA Battery 1.5 V	2 x 3 V battery, IEC CR2032	2 x Battery 1.5 V, IEC LR03	2 x Battery 1.5 V, IEC LR03
	Dimensions	224 x 77 x 37 mm	224 x 77 x 37 mm	190 x 63 x 32 mm	205 x 64 x 39 mm	240 x 70 x 41 mm
	Weight	approx. 250 g	approx. 250 g	approx. 200 g	approx. 280 g	approx. 220 g

*AMP-220-EUR only. **AMP-320-EUR only.

Clamp Multimeter Comparison Guide

	ACDC-100	ACD-50NAV	ACDC-54NAV	LH41	AC50A
Display	LCD, 3½ Digit, 4000 Count	LCD, 3½ Digit, 4000 Count	LCD, 3½ Digit, 4000 Count	LCD, 3½ Digit, 4000 Count	LCD, 3½ Digit, 3999 Count
Measurement Ranges	Current AC	0.1 A - 800 A	0.01 - 600 A	0.01-1000 A	0.01 mA - 60 A
	Tolerance	±(1.5% rdg. +5 Digits)	±(1.5 % rdg. +5 Digits)	±(1.5 % rdg. +5 Digits)	±(1.3 % rdg. +5 Digits)
	Frequency Range		50 Hz - 400 Hz	50 Hz - 400 Hz	40 - 400 Hz
	Current DC	0.1 A - 1000 A	-	-	0,001 - 40 A
	Tolerance	±(1.5% rdg. +4 Digits)	-	-	±(1.3 % rdg. +5 Digits)
	Voltage AC	0.1 mV - 600 V	0.01 - 1000 V	0,01 - 1000 V	-
	Tolerance	±(1% rdg. +4 Digits)	±(1 % rdg. +5 Digits)	±(1 % rdg. +5 Digits)	-
	Frequency Range	50 - 500 Hz	50 Hz - 500 Hz	50 - 500 Hz	-
	Voltage DC	0.1 mV - 600 V	0.01 - 1000 V	0.01 - 1000 V	-
	Tolerance	±(0.5% rdg. +3 Digits)	±(0.7 % rdg. +2 Digits)	±(0.7% rdg. +2 Digits)	-
	Continuity	R < 120 Ω	R < 30 Ω	R < 30 Ω	-
	Frequency	-	20,00 - 9,999 kHz	20.00 - 9.999 kHz	-
	Resistance	0.1 Ω - 40.00 MΩ	0.1-99.99 kΩ	0.1-99.99 kΩ	-
	Tolerance	±(0.8% rdg. +6 Digits)	-	±(1% rdg. +5 Digits)	-
	Capacity	-	-	-	-
	Active Power	-	0 - 600.0 kW	0 - 999.9 kW	-
	Cos Phi	-	-1.00-0.00 – +1.00	-1.00-0.00 – +1.00	-
	Harmonics	-	display up to the 25th	display up to the 25th	-
	Temperature	-	-	-50 °C-1000 °C	-
	Input Impedance	-	-	-	10 MΩ

Features	Jaw Opening	Ø 50 mm	Ø 37 mm	Ø 37 mm	Ø 19 mm	Ø 30 mm
	Pollution Degree	2	2	2	2	2
	Overvoltage Category	CAT III/600 V	CAT IV 600V, CAT III 1000V	CAT IV 600V, CAT III 1000V	CAT III/600 V	CAT III/600 V
	Safety	DIN VDE 0411, EN 61010, IEC 61010	DIN VDE 0411, EN 61010, IEC 61010	DIN VDE 0411, EN 61010/IEC 61010	DIN VDE 0411, EN 61010, IEC 61010	DIN VDE 0411 EN 61010, IEC 61010
	Power Supply	2 x Battery 1.5 V, IEC LR03	1 x Battery 9 V, IEC 6F22	1 x Battery 9 V, IEC 6F22	1 x Battery 9 V, IEC 6LR61	2 x Battery 1.5 V, IEC LR6
	Dimensions	227 x 78 x 40 mm	260 x 80 x 40 mm	260 x 80 x 40 mm	184 x 71 x 31 mm	210 x 62 x 36 mm
	Weight	approx. 290 g	approx. 480 g	approx. 480 g	approx. 235 g	approx. 200g

Digital Multimeters

Series Selection Guide			AM-500-EUR	AM-510-EUR	AM-520-EUR	AM-530-EUR	AM-540-EUR	AM-550-EUR
MULTIMETER TYPE			Autoranging	Com / Res	HVAC	Electrical	Adv. HVAC	Industrial
Functions	Safety Rating	Safety	CAT III 600V	CAT III 600V	CAT III 600V CAT II 1000	CAT III 600V CAT II 1000	CAT IV 600 CAT III 1000	CAT IV 600 CAT III 1000
	Measure voltage in noisy environments	True-rms				■		■
	Electrical panels, AC outlets	AC Voltage (V)	600	600	750	750	1000	1000
	DC systems, auto/marine batteries	DC Voltage (V)	600	600	1000	1000	1000	1000
	AC Current - electrical panels, appliances	AC Current (A)	10	10	10	10	10	10
	DC Current - electronics, DC motors	DC Current (A)	10	10	10	10	10	10
	Specified resistance and continuity	Resistance (MOhms)	20	40	40	40	60	60
	Flame sensors	Microamps	■	■	■	■	■	■
	Diodes in AC to DC converters	Diode Test	■	■	■	■	■	■
	Fuses, lightbulbs, wire connections	Continuity	■	■	■	■	■	■
	Household batteries	Battery test	■	■				
	Motor startup or run capacitors	Capacitance		■	■	■	■	■
	Frequency verification	Frequency		■	■	■	■	■
	Non-contact voltage test	Non-contact voltage		■	■	■	■	■
	Electrical load-time on vs time off	Duty cycle		■			■	■
	Temp of air vents, fuses, transformers	Temperature inputs			I	I	2	2
Features	Automatically selects measurement range	Autoranging	■	■	■	■	■	■
	Manually select measurement range	Manual ranging		■	■	■	■	■
	Voltage on variable frequency drives	Low pass filter					■	■
	Detect stray voltages	Low Z						■
	Dimly lit areas	Built-in flashlight		■	■	■	■	■
Display	Meter resolution	LCD Counts	2.000	4.000	4.000	4.000	6.000	6.000
	Dimly lit areas	Backlight		■	■	■	■	■
	Monitoring fast changing signals	Bar graph			■	■	■	■
	Two relative measurements on one screen	Dual display					■	■
Events	Data memory	Data hold	■	■	■	■	■	■
	Difference between two measurements	Relative reading		■	■	■	■	■
	Max/min peak measurement	Max/min hold			■	■	■	■
	Specialised signal measurements	Peak hold (crest)					■	■

Portable Appliance Testers

GT-400

Specifications GT-400	
Protective conductor resistance	0.10 ... 2.00 Ω ± (5% + 10 digits)
Insulation resistance	0.100 ... 9.999 MΩ, 10.00 ... 20.00 MΩ ± (5% + 2 Digits)
Substitute leakage current	0.100 ... 9.999 mA, 10.00 ... 20.00 mA ± (5% + 2 Digits)
Supplied with	Test leads, alligator clip, test probe, IEC lead, carrying case, 6 AA batteries, users manual
Protective Conductor Resistance	
Measuring range	0.10 ... 2.00 Ω
Display range	0.05 ... 2.00 Ω
Resolution	0.01 Ω
Tolerance	± (5% + 10 digits)
Measuring current / voltage	Min. ± 200 mA DC / > 4 V
Insulation Resistance	
Measuring range	0.1 ... 20 MΩ
Display range	0.1 ... 20 MΩ
Resolution	0.1 ... 9.999 MΩ 0.001 MΩ / 10.0 ... 20.00 MΩ 0.01 MΩ
Tolerance	± (5% + 2 digits)
Measuring current / voltage	Min. 500 V DC / > 1 mA
Substitute Leakage Current	
Measuring range	0.1 ... 20 mA
Display range	0.1 ... 20 mA
Resolution	0.1 ... 9.999 mA 0.001 mA / 10.0 ... 20.00 mA 0.01 mA
Tolerance	± (5% + 2 digits)
Measuring current / voltage	Approximately 32 V AC
General Specifications	
Power supply	6 x 1.5 V Batteries (IEC LR6 (AA)) 6 x 1.2 V NiMH rechargeable batteries
Degree of pollution	2
Overvoltage category	CAT II 300 V
Protection degree	IP40
Protection class	II
Electrical safety	EN61010-1/VDE0411
EMC emission	EN61000-6-3
EMC interference resistance	EN61326-1
Dimensions (L x W x H)	Approximately 265 x 110 x 50 mm
Weight	Approximately 700 g

*In three types available: German/Swiss/UK Schuko receptacle.

Other Test Equipment

Solar-4000

Specifications	Solar-4000 Analyzer	Solar-4000 Sensor
Measurement	I-V characteristic curve, short circuit current, open circuit voltage, power, MPP current, MPP voltage	Global irradiation, module temperature, inclination angle
Calculated values	STC values (short circuit current, open circuit voltage, MPP current, MPP voltage), fill factor, MPP power, manufacturer's ideal characteristic curve	
Voltage measurement range	1.0...1000 V (< ±1 %) (Uoc > 5 V)	-
Current measurement range	0.1...15.0 A (< ±1 %)	-
Temperature measurement range	-	0...100 °C (±3 % with reference to a black body)
Irradiation measurement range	-	100...1200 W/m² (±5 %)
Measuring connection	Standard 4 mm test leads to PV module	Infrared (contactless)
Characteristic curve measurement duration	approx. 15...30 seconds	-
Storage space for measurement curves	dependent on SD memory card size (> 1000 measurement curves per GB)	-
Reference cells	-	1 x monocrystalline cell, 1 x polycrystalline cell
Display	3.2" colour LCD touch screen (240 x 320 pixels, RGB)	SAW LC display (2 lines, 16 characters)
Power supply	Lithium polymer accumulator, operating time approx. 8 hours	Lithium polymer accumulator, operating time approx. 8 hours
Auto-Power-Off	adjustable (1...15 minutes)	-
Interface	Wireless connection to SENSOR, SD/SDHC memory card for PC	Wireless connection to ANALYZER
Ambient temperature	0...+50 °C	0...+60 °C
Protection degree	IP20	IP20
Protection class	Class II	-
Measurement category	CAT II / 1000 V, CAT III / 600 V	-
Dimensions (L / W / H)	210 mm / 105 mm / 41 mm	160 mm / 82 mm / 41 mm
Weight	approx. 500 g	approx. 200 g
Warranty	2 years	2 years
Safety according to	EN 61010-1, EN 61010-31	

2015



Product Catalogue



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