

## BENNING two-pole voltage testers (EN standard 61243-3) in accordance with VDE0682 Part 401

### Application:

**Ident. No. 027-037:** for use in all installation fields and renewable energy sectors. CAT IV 690 V, CAT III 1000 V. Tested and approved in line with DIN EN 61243-3(VDE 0682-401):2015.

**Ident. No. 056:** For checking that cables are de-energised, also suitable for very robust applications up to 600 V AC/DC.

### Execution:

- **Ident. No. 027:** Continuity test (acoustic/visual)
- Cable break detector
- Diode test
- Voltage display from 50 V even for empty batteries
- TRUE RMS
- Displays high voltages
- **Ident. No. 032:** Continuity test (acoustic/visual)



Ident. No. 027



Ident. No. 032



Ident. No. 037



Ident. No. 056

- Cable break detector
- Voltage display from 50 V even for empty batteries
- Displays high voltages
- **Ident. No. 037:** no batteries required
- displays high voltages
- **Ident. No. 056:**
  - Complies with DIN EN 61243-3:2015 and IEC 61243-3:2014
  - Can be used on electric circuits in overvoltage categories up to CAT III 600 V and CAT II 690 V
  - tester handle locking mechanism for single-handed operation on sockets and for safe storage
  - cable break detector (from an alternating voltage of approx. 200 V)
  - external conductor tester (single-pole external conductor test possible in earthed systems)
  - fully functional voltage display if batteries are flat or removed



Model		PROFIPOL+	DUSPOL, analogue	DUSPOL expert	DUSPOL digital
Display		LED   Audible	LED/moving coil	LED   Audible	LED/LCD   Audible
Min./max. voltage range AC		12-690 V/AC	12-1000 V/AC	12-1000 V/AC	1-1000 V/AC
Min./max. voltage range DC		12-690 V/AC	12-1000 V/DC	12-1000 V/DC	1-1200 V/DC
Min./max. frequency		-	-	-	1 / 1000 Hz
Min./max. continuity test		0-100 kOhm	-	0-100 kOhm	0-100 kOhm
Min./max. electrical-resistance measuring range		-	-	-	0.1 kOhm-300 kOhm
Phase-sequence test		No	Yes	Yes	Yes
Phase sequence test		Yes	Yes	Yes	Yes
Polarity testing		Yes	Yes	Yes	Yes
Vibration control system		No	Yes	Yes	Yes
Measurement point lighting		No	No	Yes	Yes
Length x width x height		-	330 x 85 x 55 mm	330 x 85 x 55 mm	330 x 85 x 55 mm
IP protection class		IP 54	IP 65	IP 65	IP 65
Weight (kg)		0.190	0.350	0.370	0.380
Overvoltage protection category		CAT III/600 V   CAT II/690 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
<b>two-pole voltage testers</b>	<b>75017...</b>	Ident. No. <b>056</b>	<b>037</b>	<b>032</b>	<b>027</b>
DUSPOL quick-access case	<b>75017...</b>	Ident. No. <b>111</b>	<b>111</b>	<b>111</b>	<b>111</b>

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## BENNING SDT 1 socket tester With finger contact for active PE error detection

### Application:

fast and simple testing for correct connection of shockproof sockets

### Execution:

- clear indication of wiring faults (missing PE, N and L conductors, inversion of L and PE conductors) via 3 LEDs
- easy-to-understand status table provides information on correct connection (OK, green) and the type of fault (red)

- active PE test with contact electrode, LCD warns of dangerous contact voltage (greater than 50 V) at the protective earth connection (PE)
- test button for triggering 30-mA fault current/RCD circuit breaker
- voltage is supplied via test object (no batteries required)

### Technical data:

- Min./max. frequency: 50 / 60 Hz
- Length x width x height: 80 x 72 x 78 mm
- Overvoltage protection category: CAT II/300 V



**75024...** | Ident. No. **105**

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## BENNING DUTEST pro continuity tester (EN standard 61010)

For high and low resistance measurement

**Application:**

For detecting wiring faults and cable disruptions.

- Cable break detector

**Execution:**

- Acoustic test buzzer
- 3-stage LED display

**Advantage:**

- Buzzer volume (adjustable)
- Powerful high-performance LED pocket torch (adjustable)

Display	LED   Audible
Protected for external voltage up to (V/AC)	400
Min./max. continuity test	0-100 Ohm
Phase sequence test	Yes
Polarity testing	Yes
Overvoltage protection category	CAT III/300 V
75021...	Ident. No. 011

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## BENNING TRITEST pro rotation field direction indicator (EN standard 61557-7)

With high-performance LED pocket torch and magnetic hanger

**Application:**

For testing the rotation field direction in three-phase networks.

- Displays phase voltages L1, L2 and L3 via red LED
- Powerful high-performance LED pocket torch
- Integrated magnet holder and belt clip on back of housing

**Execution:**

- Displays "clockwise" or "anticlockwise rotation field" via green/red LED

**Delivery:**

Incl. three attachable 4 mm test tips and an alligator clip

Display	LED
Min./max. voltage range AC	400-500 V/AC
Overvoltage protection category	CAT III/300 V
75021...	Ident. No. 101

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## TESTOFON test buzzer

Low impedance and voltage resistant

**Application:**

For testing electric appliances, telephones and telecommunication systems, measuring and control equipment as well as electronic circuits.

**Technical data:**

- Max. test voltage: 4.2 V/AC/DC
- Max. test current: 2 mA
- Min./max. range: 40-1000 Hz
- Voltage-resistant up to: 420 V/AC
- Briefly able to withstand voltage: 420 V/AC

**Execution:**

- No blow out protection
- Tone scale proportional to resistance

75022...	Ident. No. 010
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## BENNING MMP3 pocket multimeter (EN standard 61010)

Small digital multimeter in leather case for universal use

**Application:**

For use in installation fields and simple, industrial fields.

- resistance/frequency measurement
- measured value storage (HOLD)

**Execution:**

- Continuity/diode testing

**Delivery:**

Includes leather case, batteries, permanently connected measuring leads

Model	MM P3
Display range	5000 digits
Measuring accuracy	+/- 0.6 %
Min./max. test voltage (DC)	100 µV/DC-600 V/DC
Min./max. test voltage (AC)	100 µV/AC-600 V/AC
Conductivity testing	Yes
Diode testing	Yes
Min./max. electrical-resistance measuring range	0.1 Ohm-40 MOhm
Min./max. frequency	0.000000001 / 5 MHz
Volt sensor	No
Memory function	HOLD
Measuring procedure	RMS
Overvoltage protection category	CAT III/300 V
Length x width x height	132 x 86 x 19 mm
75021...	Ident. No. 200

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## BENNING digital multimeter (EN standard 61010) with voltage sensor function

### Application:

For use in installation fields.

▪ Good price/performance ratio

### Advantage:

- Volt sensor for non-contact detection of phase voltage and cable breaks (visual/acoustic)

### Delivery:

**Ident. No. 111–121:** Includes bag, batteries, measuring leads

**Ident. No. 131:** Includes bag, batteries, measuring leads; includes wire temperature sensor with adapter



Ident. No. 111  
BENNING MM 1-1



Ident. No. 121  
BENNING MM 1-2



Ident. No. 131  
BENNING MM 1-3

Model	MM 1-1	MM 1-2	MM 1-3
Display range	2000 digits	2000 digits	2000 digits
Measuring accuracy	+/- 0.5 %	+/- 0.5 %	+/- 0.5 %
Min./max. test voltage (DC)	100 µV/DC-1000 V/DC	100 µV/DC-1000 V/DC	100 µV/DC-1000 V/DC
Min./max. test voltage (AC)	100 µV/AC-750 V/AC	100 µV/AC-750 V/AC	100 µV/AC-750 V/AC
Min./max. alternating current of measuring range	-	1 mA-10 A	1 mA-10 A
Min. alternating current of measuring range (mA)	-	1	1
Max. alternating current of measuring range (A)	-	10	10
Min./max. direct current of measuring range	-	1 mA-10 A	1 mA-10 A
Conductivity testing	Yes	Yes	Yes
Diode testing	Yes	Yes	Yes
Min./max. electrical-resistance measuring range	0.1 Ohm-20 MOhm	0.1 Ohm-20 MOhm	0.1 Ohm-20 MOhm
Min./max. frequency	-	0.000001 / 20 MHz	0.000001 / 20 MHz
Volt sensor	Yes	Yes	Yes
Memory function	HOLD	HOLD, MAX/MIN	HOLD, MAX/MIN
Measuring procedure	-	RMS	RMS
Overvoltage protection category	CAT III/600 V   CAT II/1000 V	CAT III/600 V   CAT II/1000 V	CAT III/600 V   CAT II/1000 V
Length x width x height	156 x 74 x 44 mm	156 x 74 x 44 mm	156 x 74 x 44 mm
75024...	Ident. No. 111	Ident. No. 121	Ident. No. 131

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## BENNING digital multimeter (EN standard 61010) with the TRUE RMS effective value measurement method

### Application:

**Ident. No. 215:** for use in industry, service and trade

**Ident. No. 231:** For use in installation fields/industry.

**Ident. No. 245:** For demanding measuring tasks in industry and craftsmanship

### Execution:

- **Ident. No. 215:**
  - functions: HOLD, MIN/MAX, PEAK, REL
  - microampere measuring ranges (400.0 µA DC/4000 µA DC) for ionisation current measurement on heating systems
  - volt sensor
- **Ident. No. 215, 245:**
  - LCD backlighting
  - continuity/diode testing
- **Ident. No. 231:** Automatic voltage detection (AutoV)
- **Ident. No. 231–245:**
  - bar graph display
  - LoZ voltage measurement with low input impedance

### Ident. No. 245:

- Datalogger function LOG (40,000 measuring points)
- automatic voltage detection (AutoV)
- Low-pass filter (HFR) for measurements of clocked motor drives
- PC software: transfer measured values in real time (USB), sampling rate is adjustable, measured value storage (MS EXCEL)
- Download the free app! Monitors up to 5 multimeters. Transfer measured values in real time (Bluetooth 4.0). Measured value storage (CSV).
- interfaces: Bluetooth® Low Energy 4.0, USB

### Delivery:

**Ident. No. 215:** Protective rubber frame, batteries, measuring leads, wire temperature sensor, bag

**Ident. No. 231:** protective rubber frame, measuring leads, wire temperature sensor with adapter, bag

**Ident. No. 245:** incl. PC software, serial data cable with USB connection, protective rubber frame, magnetic hanger, case, batteries, test leads, wire temperature sensor and calibration certificate



Ident. No. 215



# Electric testing devices \ Multimeter/current clamps

Model	MM 5-2	MM 7-1	MM 12
Display range	6000 digits	6000 digits	4000 digits   40000 digits
Measuring accuracy	+/- 0.5 %	+/- 0.08 %	+/- 0.5 %
Min./max. test voltage (DC)	100 $\mu$ V/DC-600 V/DC	10 $\mu$ V/DC-1000 V/DC	10 $\mu$ V/DC-1000 V/DC
Min./max. test voltage (AC)	100 $\mu$ V/AC-600 V/AC	10 $\mu$ V/AC-1000 V/AC	10 $\mu$ V/AC-1000 V/AC
Min./max. alternating current of measuring range	1 mA-10 A	10 $\mu$ A-10 A	10 $\mu$ A-10 A
Min. alternating current of measuring range	1 mA	10 $\mu$ A	10 $\mu$ A
Max. alternating current of measuring range (A)	10	10	10
Min./max. direct current of measuring range	0.1 $\mu$ A-10 A	10 $\mu$ A-10 A	10 $\mu$ A-10 A
Conductivity testing	Yes	Yes	Yes
Diode testing	Yes	Yes	Yes
Min./max. electrical-resistance measuring range	100 mOhm-40 MOhm	0.1 Ohm-40 MOhm	0.1 Ohm-40 MOhm
Min./max. frequency	0.00001 / 50 kHz	0.00001 / 100 kHz	0.0001 / 100 kHz
Min./max. temperature measuring range	-40 to 400 °C	-40 to 400 °C	-200 to 1200 °C
Volt sensor	Yes	Yes	Yes
Memory function	HOLD, PEAK	HOLD, MAX/MIN	HOLD, PEAK-HOLD, MAX/MIN/AVG, REL
Measuring procedure	TRUE RMS	TRUE RMS	TRUE RMS AC   AC+DC
Overvoltage protection category	CAT IV/300 V   CAT III/600 V	CAT IV/600 V   CAT III/1000 V	CAT IV/600 V   CAT III/1000 V
Length x width x height	150 x 77 x 44 mm	190 x 94 x 48 mm	206 x 94 x 54 mm
75024...	Ident. No. 215	231	245

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## **BENNING** digital current clamp multimeters (EN standard 61010) for alternating and direct current

### Application:

**Ident. No. 300:** For measurements in electrical installations.

**Ident. No. 310-320:** For measurement in electrical installations.

### Execution:

- **Ident. No. 320:**
  - Fork-shaped current clamp head (slimline design)
  - Volt sensor

### Delivery:

**Ident. No. 310-320:** Includes measuring leads



Ident. No. 310  
BENNING CM 1-2



Ident. No. 320  
BENNING CM 1-3

Model	CM 1-1	CM 1-2	CM 1-3
Display range	2000 digits	2000 digits	2000 digits
Measuring accuracy	+/- 2 %	+/- 1 %	+/- 1 %
Min./max. test voltage (DC)	-	0.1 V/AC-600 V/AC	0.1 mV/AC-1000 V/AC
Min./max. test voltage (AC)	-	0.1 V/AC-600 V/AC	0.1 mV/AC-750 V/AC
Min./max. alternating current of measuring range	0.01 A-400 A	0.1 A-400 A	0.1 A-200 A
Min. alternating current of measuring range (A)	0.01	0.1	0.1
Max. alternating current of measuring range (A)	400	400	200
Conductivity testing	No	Yes	Yes
Diode testing	No	No	Yes
Min./max. electrical-resistance measuring range	-	0.1 Ohm-20 MOhm	0.1 Ohm-20 MOhm
Max. collet opening (mm)	30	30	16
Memory function	HOLD, MAX	HOLD	HOLD
Measuring procedure	RMS	RMS	RMS
Overvoltage protection category	CAT III/600 V	CAT III/600 V	CAT IV/600 V   CAT III/1000 V
Length x width x height	180 x 70 x 42 mm	190 x 70 x 38 mm	190 x 60 x 40 mm
75024...	Ident. No. 300	310	320

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## BENNING Digital current clamp multimeters (EN standard 61010)

With TRUE RMS current measurement

### Application:

For measurement in electrical installations/industry/PV.

### Execution:

#### Ident. No. 330:

- Relative measurement (REL)
- VDE electrical standard approval

#### Ident. No. 335:

- Automatic selection of correct measuring function
- Prevents measurement errors
- Rapid response

#### Ident. No. 335-340:

- LoZ function to suppress capacitively/inductively induced voltages
- ZERO function

#### Ident. No. 340:

- Power measurement with power factor cos phi,
- Load type display
- Phase sequence indicator

### Delivery:

**Ident. No. 330-335:** Includes accessories such as bag, battery/batteries, measuring leads

**Ident. No. 340:** Includes accessories such as bag, battery/batteries, measuring leads and wire temperature sensor with adapter



Ident. No. 330  
BENNING CM 2



Ident. No. 335  
BENNING CM 5-1

Model	CM 2	CM 5-1	CM 8
Display range	4000 digits	9999 digits	6000 digits
Measuring accuracy	+/- 0.5 %	+/- 0.9 %	+/- 0.7 %
Min./max. test voltage (DC)	0.1 mV/DC-600 V/DC	1.3 V/DC-750 V/DC	10 mV/DC-600 V/DC
Min./max. test voltage (AC)	1 mV/AC-600 V/AC	1.3 V/AC-1000 V/AC	10 mV/AC-600 V/AC
Min./max. alternating current of measuring range	100 mA-300 A	0.9 A-600 A	0.1 A-600 A
Min. alternating current of measuring range	100 mA	0.9 A	0.1 A
Max. alternating current of measuring range (A)	300	600	600
Min./max. direct current of measuring range	10 mA-300 A	0.9 A-600 A	0.1 A-600 A
Conductivity testing	Yes	Yes	Yes
Diode testing	No	Yes	Yes
Min./max. electrical-resistance measuring range	0.1 Ohm-40 MOhm	1 Ohm-10 kOhm	0.1 Ohm-20 kOhm
Min./max. frequency	-	-	0.0001 / 4 kHz
Min./max. effective power	-	-	0.001-360 kW
Max. collet opening (mm)	25	35	40
Memory function	HOLD, MAX	HOLD	HOLD, MAX/MIN, PEAK, INRUSH
Measuring procedure	TRUE RMS	TRUE RMS	TRUE RMS
Overvoltage protection category	CAT III/300 V   CAT II/600 V	CAT IV/600 V   CAT III/1000 V	CAT III/600 V
Length x width x height	192 x 66 x 27 mm	215 x 85 x 51 mm	235 x 85 x 51 mm
75024...	Ident. No. 330	335	340

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## BENNING CM 11 TRUE RMS AC/DC milliampere current clamp multimeter

Precise measurement of low AC/DC currents with a maximum resolution of 100 µA

### Application:

Ideal for troubleshooting problems in electrical installations, control systems, devices and motor vehicle electrical systems.

### Execution:

- Measures stray, differential, leakage and load currents

- Measures 4 mA - 20 mA process signals without interrupting the current loop
- Standby current measurement for batteries to monitor battery discharge via leakage
- ZERO function

### Delivery:

includes accessories: bag, batteries, measuring leads



Model	CM 11
Display range	6000 digits
Measuring accuracy	+/- 1 %
Min./max. test voltage (DC)	10 mV/DC-600 V/DC
Min./max. test voltage (AC)	10 mV/AC-600 V/AC
Min./max. alternating current of measuring range	100 µA-20 A/AC
Min. alternating current of measuring range (µA)	100
Max. alternating current of measuring range (A/AC)	20
Min./max. direct current of measuring range	100 µA-10 A/DC
Conductivity testing	Yes
Diode testing	No
Min./max. electrical-resistance measuring range	0.1 Ohm-600 kOhm
Max. collet opening (mm)	23
Memory function	HOLD, MAX/MIN
Measuring procedure	TRUE RMS
Overvoltage protection category	CAT IV/300 V   CAT III/600 V
Length x width x height	206 x 76 x 33 mm
75024...	Ident. No. 391

Prod. Gr. 751

BENNING

IT101 insulation and resistance measuring instrument  
TRUE RMS voltage measurement with low-pass filter

- Application:

For insulation resistance and low impedance measurement in electrical installations.
- Execution:

▪ R ISO test voltages 50 V to 1000 V

▪ R PE test current 200 mA

▪ Polarisation index (PI), dielectric absorption ratio (DAR)

▪ Switchable probe for triggering measuring procedures

- Advantage:

▪ Selectable limit values for ISO measurement, clear display (green LED for passed, red LED for test voltage/external voltage)

▪ Internal memory
- Delivery:

Includes bag, switchable probe, measuring leads, crocodile clips, protective rubber frame, batteries



BENNING IT 101



Display range	4000 digits
Min./max. low impedance resistance	0.01 Ohm-40 kOhm
Min./max. insulation resistance	50 kOhm-20 GOhm
Min./max. electrical-resistance measuring range	0.01 Ohm-40 kOhm
Min./max. test voltage (DC)	0.1 V/DC-600 V/DC
Min./max. test voltage (AC)	0.1 V/AC-600 V/AC
Measured value memory	500 measuring results
Measuring procedure	TRUE RMS
Overvoltage protection category	CAT IV/600 V
Length x width x height	207 x 95 x 52 mm
75024...	Ident. No. 610

Prod. Gr. 751

