

## Voltage tester "Profi LCDplus II"

The "Profi LCDplus II" is the new top model in our tried and tested professional series. The innovative two-pole voltage tester is characterised by a wide performance spectrum and practical one-handed operation. It enables testing without finger contact and, thanks to the high CAT IV 1000 V safety level, is suitable with immediate effect for taking measurements on hybrid and electrical vehicles as well as for photovoltaic systems.

### Functions and benefits

- Highest CAT IV 1000 V safety level
- Large, illuminated LCD
- Voltage display up to 1000 V AC and 1400 V DC
- Resistance measurement up to 1999 Ω
- Frequency display up to 1000 Hz

### Technical data

Display:	Optical, LCD
Measuring range:	Automatic
Over-voltage category:	CAT IV 1,000 V
Dimensions:	300 x 75 x 20 mm
Weight:	270 g
Colour:	Red/black
Scope of delivery:	Including batteries
Accessories (optional):	Carry bag
Voltage range:	3-1000 V AC (TRMS/RMS) 4-1400 V DC
Throughput check:	0-50 Ω with acoustic signal
Phase display:	> 100 V AC
Voltage supply:	2 x 1.5 V AAA (display of voltages is possible even without batteries)
Polarity:	Yes (- in LCD)
PELV display:	Optical, acoustic and vibrating
Protection class:	IP 65
Standard:	EN 61243-3:2010
Resistance measurement:	1-1999 Ω
Frequency measurement:	0-1000 Hz
Data-hold:	Voltage and resistance
Automatic power off function:	Yes
FI/RCD test:	30 mA at 230 V AC using two buttons
Single-pole phase test:	Yes
Two-pole phase-sequence test:	Yes
Illumination of measuring point:	White LED
4-mm test tip adapter:	Can be unscrewed
Guarantee:	5 years



Art. no.	TMA	kg	PU
103826	3-1000	0,264	1

## Voltage tester "Profi LEDplus II"

The new two-pole voltage tester "Profi LEDplus II" is the result of consistent further development of our popular "Profi LEDplus". It is characterised by user-friendly handling, robust and safe construction and meets all the requirements a specialist user makes of the modern voltage tester. Thanks to the highest safety level, CAT IV 1000 V, it is also suitable for measurements on hybrid and electrical vehicles as well as photovoltaic systems.

### Functions and benefits

- Highest CAT IV 1000 V safety level
- Practical one-handed operation
- Robust, safe construction format
- Tests without finger contact
- Display on voltages even without battery

### Technical data

Display:	Optical, LEDs
Measuring range:	Automatic
Over-voltage category:	CAT IV 1,000 V
Dimensions:	300 x 75 x 20 mm
Weight:	270 g
Colour:	Red/black
Scope of delivery:	Including batteries
Accessories (optional):	Carry bag
Voltage range:	6-1000 V AC
Throughput check:	0-50 kΩ optical/acoustic
Phase display:	> 100 V AC
Voltage supply:	2 x 1.5 V AAA (display of voltages is possible even without batteries)
Diode test:	Yes
Polarity:	Yes (+, - LED)
PELV display:	Optical, acoustic and vibrating
Protection class:	IP 65
Standard:	EN 61243-3:2010
Automatic power off function:	Yes
FI/RCD test:	30 mA at 230 V AC using two buttons
Single-pole phase test:	Yes
Two-pole phase-sequence test:	Yes
Illumination of measuring point:	White LED
4-mm test tip adapter:	Can be unscrewed
Guarantee:	5 years



Art. no.	TMA	kg	PU
103824	6-1000	0,264	1

## Voltage tester "Basic +"

The two-pole voltage tester reliably indicates direct and alternating voltages within a range of 6 to 400 V in 7 intervals per LED (6, 12, 24, 50, 120, 230 and 400). The electronics also enable the determination of polarity and the phase to protective conductor. The "Basic +" is characterised by a user-friendly construction and robust housing that ensures long operational life. The rubberised handles offer non-slip hold. The "Basic +" operates without batteries. It takes its operating voltage from the test object.

### Functions and benefits

- User-friendly and robust
- Voltage range up to 400 V AC/DC
- Phase search to protective conductor

### Technical data

	„Basic +“
Display:	Optical, 8 LEDs
Over-voltage category:	CAT III 400 V
Dimensions:	120 x 60 x 30 mm
Weight:	100 g
Colour:	Red/black
Accessories (optional):	Carry bag
Voltage range:	6 - 400 V AC/DC
Voltage supply:	Via measuring object
Polarity:	Yes (+, - LED)
Standard:	EN 61243-3:2010
Housing:	High quality plastic with rubberised handle area
Guarantee:	5 years



Art. no.	TMA	kg	PU
103800	6-400	0,097	1

## "Multi Clamp II"

### digital miniature clamp transducer AC/DC 600 V

Thanks to the versatile measuring functions, the digital probe ampere meter "Multi Clamp II" may be used universally. Handy details, such as the large display, the manual or automatic measuring range selection and the measuring point illumination, make operation particularly convenient and safe.

### Functions and benefits

- Large range of functions
- Easy to read LCD
- LED measuring point illumination

### Technical data

	„Multi Clamp II“
Display:	LCD with 4 digits
Over-voltage category:	CAT III 600 V
Dimensions:	220 x 75 x 35 mm
Weight:	340g
Colour:	Red/black
Scope of delivery:	Including measuring cables, batteries and carry bag
Voltage supply:	3x 1.5V
Diode test:	Test current - 1 mA, test voltage - 3.3 V
Throughput test:	Throughput tone under 30I©
Direct voltage:	600m, 6, 60, 600V
Direct current:	60A, 600A
Alternating voltage:	600mV, 6, 60, 600V, 40 to 400Hz
Alternating current:	60A, 600A, 40 to 400Hz
Alternating current accuracy:	±3.0 % +10 digit
Alternating current, highest resolution:	10 mA
Direct current, highest resolution:	10 mA
Alternating voltage accuracy:	±1.5 % +10 digit to 600 mV / ±1.2 % +5 digit to 60 V / ±1.5 % +10 digit to 600 V
Alternating voltage, highest resolution:	100 µV
Alternating voltage input resistance:	10 MΩ
Direct voltage accuracy:	±0.8 % +3 digit to 60 V / ±1.0 % +5 digit to 600 V
Direct voltage, highest resolution:	100 µV
Direct voltage input resistance:	10 MΩ
Frequency measuring tongs:	600 Hz, 1 kHz, > 1 A AC rms
Frequency measuring tongs, accuracy:	±1.5 % +5 digit to 1 kHz
Frequency measuring tongs, highest resolution:	100 mHz
Frequency measuring socket:	600 Hz, 6 kHz, 10 kHz, > 0.2 V AC rms
Frequency measuring socket, accuracy:	±1.5 % +5 digit to 10 kHz
Frequency measuring socket, highest resolution:	100 mHz
Sampling rate:	10 to 95 %, ±3.0 %, > 1 A AC rms
Sampling rate, frequency range:	10 Hz to 1 kHz
Sampling rate, capacity measurement:	To 60 mF
Resistance accuracy:	±1.2 % +2 digit to 6 MΩ ±2.0 % +5 digit to 60 MΩ
Resistance highest accuracy:	100 MΩ
Diode test resolution:	1 mV
Diode test throughput test:	Throughput tone under 30 Ω
Guarantee:	5 years



Art. no.	kg	PU
103809	0,426	1

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## “Multi Check II” - digital high-capacity multimeter

The “Multi Check II” is particularly safe to use. Thanks to the automatic measuring range protection, it is impossible to operate incorrectly. In addition, the digital multimeter has an easy to read LC display with background illumination.

### Functions and benefits

- Automatic measuring range protection
- Large LCD with background lighting
- Temperature measurement

### Technical data

Display:	37 mm, large, illuminated LCD
Over-voltage category:	CAT III 600 V
Weight:	380g including batteries.
Scope of delivery:	Including measuring cables, holster, temperature sensor and battery
Voltage supply:	1x 9 V 6LR61
Diode test:	Yes
Standard:	IEC/EN 61010-1, IEC/EN 61010-2-033
Dimension:	200 x 89 x 38 mm
AC voltage:	2 V, 20 V, 200 V ; ±1.0 %, ±5 Digits 600 V ; ±1.2 %, ±5 Digits
AC current:	2 mA, 20 mA ; ±1.0 %, ±5 digits 200 mA ; ±1.5 %, ±3 digits 10 A ; ±2.0 %, ±8 digits
Operating temperature range:	0-40 °C (32-104 °F)
DC voltage:	200 mV, 2 V, 20 V, 200 V ; ±0.5 %, ±3 digits 600 V ; ±0.8 %, ±5 digits
DC current:	2 mA, 20 mA ; ±1.0 %, ±3 digits 200 mA ; ±1.5 %, ±3 digits 10 A ; ±2.0 %, ±5 digits
Throughput test:	Yes
Input impedance:	> 7.5 MΩ, type 10 MΩ (ACV & DCV)
Frequency measurement range:	0-20 kHz
Capacity measurement range:	To 20 µF
Storage temperature range:	-10-50 °C (14-122 °F)
Maximum input voltage:	600 V AC/DC
Fuses:	200 mA (resettable) 10 A/1000 V (fast)
Temperature measurement:	-20-1000°C with K-type sensor
Alternating current bandwidth:	50-400 Hz
Resistance:	200 Ω ; ±1.0 %, ±5 digits 2 kΩ, 20 kΩ, 200 kΩ ; ±1.0 %, ±5 digits 2 MΩ ; ±1.0 %, ±5 digits 20 MΩ ; ±1.5 %, ±5 digits
Guarantee:	5 years

### „Multi Check II“

Display:	37 mm, large, illuminated LCD
Over-voltage category:	CAT III 600 V
Weight:	380g including batteries.
Scope of delivery:	Including measuring cables, holster, temperature sensor and battery
Voltage supply:	1x 9 V 6LR61
Diode test:	Yes
Standard:	IEC/EN 61010-1, IEC/EN 61010-2-033
Dimension:	200 x 89 x 38 mm
AC voltage:	2 V, 20 V, 200 V ; ±1.0 %, ±5 Digits 600 V ; ±1.2 %, ±5 Digits
AC current:	2 mA, 20 mA ; ±1.0 %, ±5 digits 200 mA ; ±1.5 %, ±3 digits 10 A ; ±2.0 %, ±8 digits
Operating temperature range:	0-40 °C (32-104 °F)
DC voltage:	200 mV, 2 V, 20 V, 200 V ; ±0.5 %, ±3 digits 600 V ; ±0.8 %, ±5 digits
DC current:	2 mA, 20 mA ; ±1.0 %, ±3 digits 200 mA ; ±1.5 %, ±3 digits 10 A ; ±2.0 %, ±5 digits
Throughput test:	Yes
Input impedance:	> 7.5 MΩ, type 10 MΩ (ACV & DCV)
Frequency measurement range:	0-20 kHz
Capacity measurement range:	To 20 µF
Storage temperature range:	-10-50 °C (14-122 °F)
Maximum input voltage:	600 V AC/DC
Fuses:	200 mA (resettable) 10 A/1000 V (fast)
Temperature measurement:	-20-1000°C with K-type sensor
Alternating current bandwidth:	50-400 Hz
Resistance:	200 Ω ; ±1.0 %, ±5 digits 2 kΩ, 20 kΩ, 200 kΩ ; ±1.0 %, ±5 digits 2 MΩ ; ±1.0 %, ±5 digits 20 MΩ ; ±1.5 %, ±5 digits
Guarantee:	5 years



Art. no.	kg	PU
103811	0,433	1

## Circuit tester “Control”

The “Control” recognises, thanks to the no-contact voltage sensor, alternating voltages through insulation. Defective lamps, for example, in fairy light chains or similar will be shown quickly and precisely. The incorporated current warning issues and alarm when life-threatening voltage is present. The electronics also enable single-pole phase detection. Throughput tester with LED pocket torch, without flat battery, with replaceable measuring cables.

### Functions and benefits

- Reliable throughput tester
- No-contact voltage sensor
- High-performance LED torch

### Technical data

Over-voltage category:	CAT II 300 V
Dimensions:	120 x 60 x 30 mm
Weight:	90 g (without batteries)
Colour:	Red
Scope of delivery:	2 measuring cables
Accessories (optional):	Crocodile clips, carry bag
Throughput check:	Optical 0-20 Ω acoustic 0-250 Ω
Test voltage:	4.5 V
Test current:	Optical - 10 mA acoustic - 2 mA
External voltage protection:	Up to 300 V
Guarantee:	5 years

### „Control“



Art. no.	kg	PU
100666	0,139	1

## Voltage testers

### Voltage tester "TestPen Profi"

The non-contact voltage tester "TestPen Profi" recognises current-carrying cables as of 12 V, including low-voltage systems.. Invisible cable breaks in extension cords or a defect lamp in fairy lights can be localised to the centimetre in seconds thanks to the capacitive measuring procedure.

#### Functions and benefits

- Capacitive measuring procedure
- Measurements as of 12 V
- LED torch
- Vibrating display

#### Technical data

Display:	Optical and vibrating
Measuring range:	12-1000 V AC
Over-voltage category:	CAT III 1,000 V
Dimensions:	160 x 25 mm
Weight:	45 g
Colour:	Red
Scope of delivery:	Including batteries
Integrated LED torch:	Yes
Voltage supply:	2 x 1.5 V AAA Micro, LR03
Standard:	IEC/EN 61010-1 (DIN VDE 0411)
Housing:	Impact/break proof ABS plastic
Guarantee:	5 years

#### „TestPen Profi“

Optical and vibrating

12-1000 V AC

CAT III 1,000 V

160 x 25 mm

45 g

Red

Including batteries

Yes

2 x 1.5 V AAA Micro, LR03

IEC/EN 61010-1 (DIN VDE 0411)

Impact/break proof ABS plastic

5 years



Art. no.	TMA	TL	kg	PU
103817	12-1000	140	0,190	1

### Voltage testers VDE/GS

5 mm surrounding hand-protection, clip of insulating material, fixed installed scale with dark background



Art. no.	TMA	TL	BL	kg	PU
100700	125-250	190	-	0,036	1

### Voltage tester "Basic"

surrounding hand-protection, clip of insulating material, fixed installed scale with dark background



Art. no.	TMA	TL	kg	PU
102075	125-250	190	0,035	1

## Infrared thermometer

### Infrared thermometer

The intended use includes the contact-free measurement of temperatures between -20 to +380°C. As power supply, only a 9V battery of the type 006P, IEC6F22, NEDA 1604 or one of the same type may be used. The thermometer may only be used in a dry environment and contact with moisture must be avoided.

#### Specifications:

- Temperature range: -20 - +380°C (-4 - 716°F)
- Response time: less than 1 second
- Distance from measuring point ratio: 8:1
- Spectral range: 5 - 14µm
- Emission ratio: 0.95 hard
- Temperature resolution: 0.1°C (0.1°F)
- Laser: 1mW, wave length 630 - 670nm, class II
- Working temperature: 0 - +50°C (32 - 122°F)
- Storage temperature: -20 - +65°C (-4 - 149°F)
- Air humidity: 10% - 90%, non-condensing
- Power supply: 9V battery
- Product size: 16.5 cm x 9 cm x 4 cm
- Weight: 150 g (including battery)
- 3 years guarantee



Art. no.	TMA	kg	PU
103818	-20 - +380°C	0,193	1



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Germany: HAUPA, Koenigstr. 165-169, 42853 Remscheid, Phone: +49 (0)2191 8418-0, Fax: +49 (0)2191 8418-840, sales@haupa.com