TROTEC

COMFORT CONTROL

COMPLETE PROGRAM FOR WORKSHOPS, HOBBIES AND FOR OFFICES

BASIC CTRL 1│2021
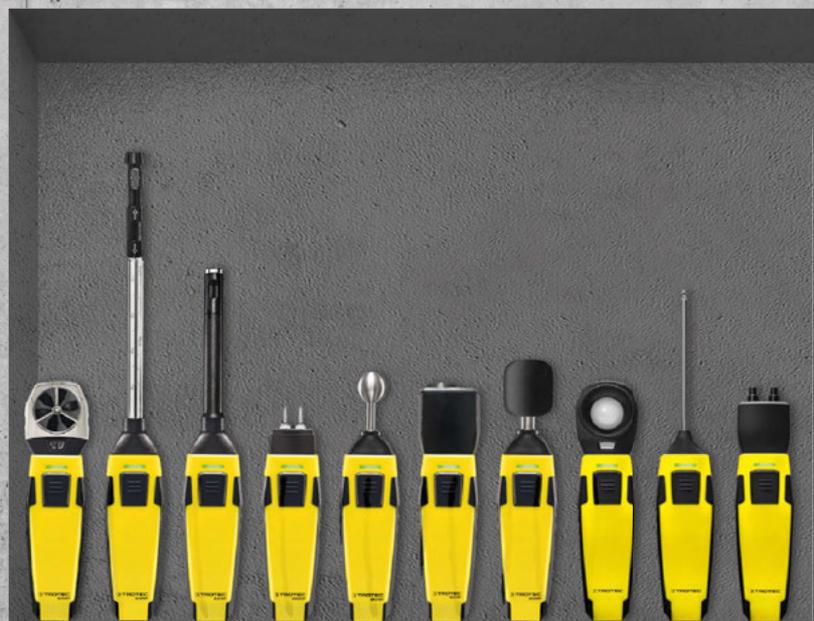
Our branch offices:

GERMANY

Heinsberg (Our head office)

Trotec GmbH
Grebbener Straße 7
52525 Heinsberg
Phone +49 2452 962-400
Fax   +49 2452 962-200
info@trotec.de
www.trotec.de
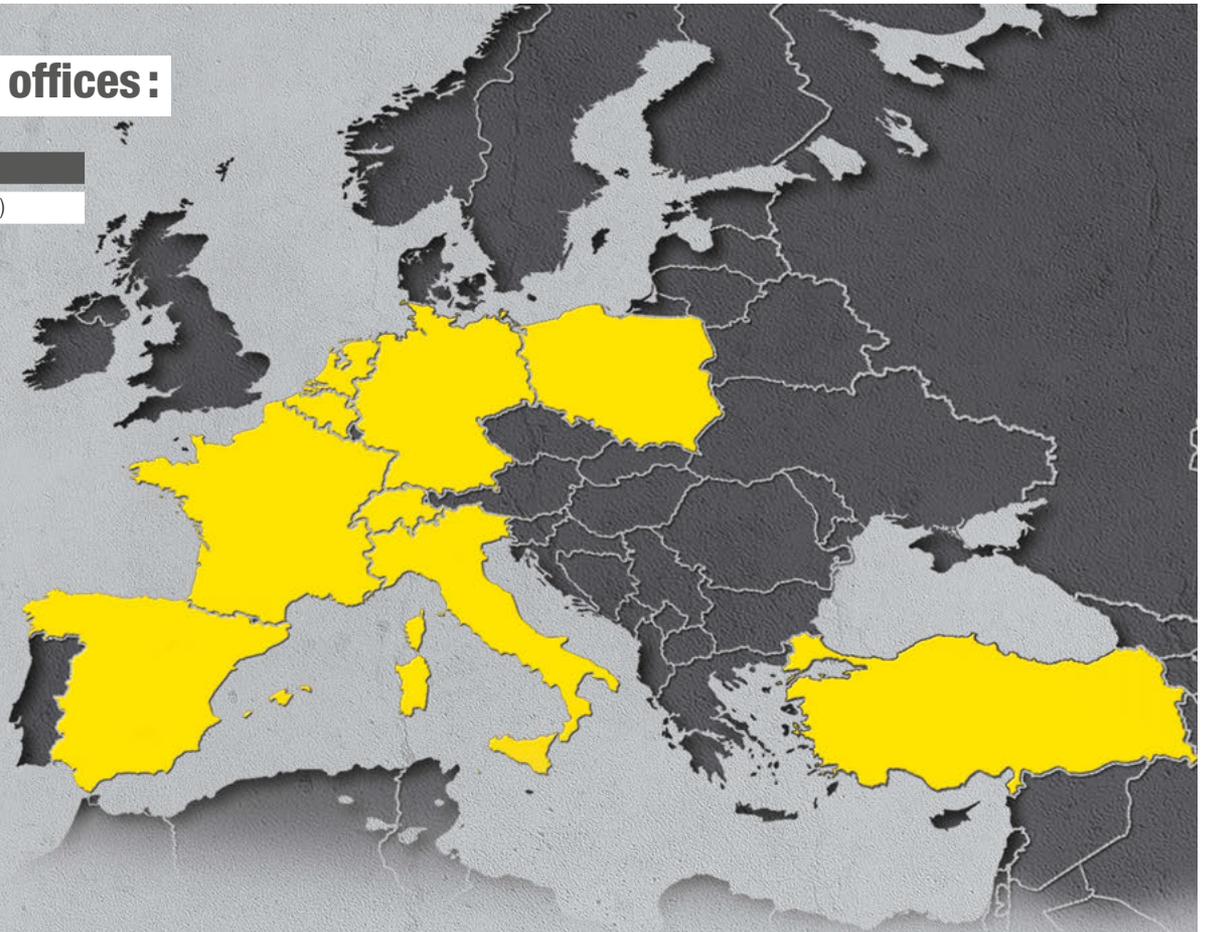
GERMANY

Schwerin

Trotec GmbH
Werkstraße 721/7
19061 Schwerin
Phone +49 385 773350-80
Fax   +49 385 773350-83

FRANCE

Strasbourg

Trotec GmbH
Rue du Dépôt
10 Les Parcs de l'Europe
67207 Niederhausbergen
Phone +33 390 2948-18
Fax   +33 390 2948-19

CHILE

Santiago

Trotec CHILE SA
AV Andrés Bello 2777,
Of 904. Las Condes,
Santiago
Phone +56 222 4120791

SPAIN

Madrid

Trotec Comercio SL S.COM.
Avenida de la Industria, 85
Polígono Industrial el Lomo
28970 Humanes de Madrid
Phone +34 91 187 349-0
Fax   +34 91 187 349-1

NETHERLANDS

Rotterdam

Trotec C.V.
Kreekweg 22
3133 AZ Vlaardingen
Phone +31 103 135250
Fax   +31 103 135251

ITALY

Verona

Trotec International GmbH & C.S.a.s.
Via Marconi, 27
37010 Affi
Phone +39 045 6200-905
Phone +39 045 6201-668
Fax   +39 045 6200-895

TURKEY

Istanbul

Trotec End.Ürn.Tic.Ltd.Şti.
Oruçreis Mh. Giyimkent Cd.
14. Sok. No. 61
Giyimkent Sitesi
34235 Esenler - Istanbul
Phone +90 212 4385655
Fax   +90 212 4385651

BELGIUM

Overpelt

Trotec C.V.
Klein Siberiëstraat 1C
3900 Overpelt
Phone +32 11 393270
Fax   +32 11 403857

POLAND

Warsaw

Trotec Sp. z o.o. Sp. k
Ul. Olszynowa 9
Podolszyn Nowy, 05-090 Raszyn
Phone +48 22 30753-60
Fax   +48 22 30753-61

Your direct line to Trotec

The most important telephone numbers at a glance:

Central

Telephone.............+49 2452 962-0

Service / Returns

Customer Care Center........... -599

Direct Distribution

Online Shop/
Market Places.........................-450

Distribution

Distribution General............... -400

Distribution International

Export...................................... -500

Administration

Accounting.............................. -290

This catalogue version is updated constantly and is also available as an interactive online edition which can be accessed at **www.trotec.com/catalogs**

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BM22 Moisture measuring device	**BM22WP** Material moisture measuring device	**BM31** Moisture indicator	**BM31WP** Moisture indicator	**BM40** Moisture measuring device	**BY10** Tyre pressure gauge	**BV15WP** NEW Differential pressure measuring device
BA06 Vane anemometer	**BA16** Vane anemometer	**BA16WP** Vane anemometer	**BA30WP** Hot-wire anemometer	**BC06** Thermohygrometer	**BC21** Thermohygrometer	**BC21WP** Thermohygrometer
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BZ21M NEW Thermohygrometer	**BZ22M** NEW Thermohygrometer	**BZ25** CO_2 Air quality monitor	**BZ30** CO_2 Air quality data logger	**BL30** Climate data logger	**BG20** Carbon monoxide measuring device	**BG30** Gas detector

BG40
Gas detector

BQ16
HCHO/TVOC
measuring device

BQ21
Particle
measuring device

BQ31
Long-term air quality
monitor

BR16
Microwave radiation
measuring device

BF06
Luxmeter

BF06WP
Luxmeter

BS06
Sound level
measuring device

BS30WP
Sound level
measuring device

BB20
Layer thickness
measuring device

BB30
Layer thickness
measuring device

BD5A
Cross line laser

BD7A
Rotary laser

BD11
Distance meter

BD16
Distance meter

BD21
Distance meter

BD26
Distance meter

BI15
Wall scanner

BI20
Wall scanner

UV-Torchlight 5F
Ultraviolet
LED torch

BH30
Socket hygrostat

BN30
Socket thermostat

BN35
Radio-controlled
socket thermostat

BX09
Energy cost
measuring device

BX11
Energy cost
measuring device

BX50 MID
Energy consumption
measuring device

BE14
Voltage detector

BE14
Voltage detector

BE14
Voltage detector

BE17
Voltage tester

BE20
Voltage tester

BE38
Clamp meter

BE40
Clamp meter

BE44
Clamp meter

BE47
Digital multimeter

BE50
Digital multimeter

BO21
Videoscope

BO26
Videoscope

> TROTEC

MultiMeasure Basic Measuring Device		BT20	BT22 WP	BT40	BP2F	BP5F	BP15	BP17	BP21	BP21 WP	BP25	BW05	BW10	BM12	BM18	BM22	BM22 WP	BM31	BM31 WP	BM40	BY10
appSensor	Smartphone control		■							■							■		■		
General use	For indoor use	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	For outdoor use	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Data logger function																				
Temperature	Liquid temperature	■	■	■	■	■						■									
	Bulk material temperature	■	■																		
	Food temperature	■		■	■	■															
	Surface temperature				■	■	■	■	■	■											
	Dew point temperature										■										
	Wet bulb temperature																				
	Contact temperature	■		■	■	■															
	HI / WBGT																				
Material moisture	Wood mosture													■	■	■	■			■	
	Building moisture													■	■	■	■	■	■	■	
Air flow	Air flow speed																				
	Air volume flow																				
Room climate and air quality	Relative humidity										■										
	Air temperature		■								■			■	■	■	■			■	
	Saturation humidity																				
	Absolute humidity																				
	Dew point temperature																				
	Climate quality indication																				
	Air quality indication																				
Liquid analysis	Break fluid										■										
	pH value												■								
Emissions (gas, EMF, light, sound)	Carbon dioxide																				
	Carbon monoxide																				
	Methane and other flammable gase																				
	Microwave radiation																				
	Illumination level																				
	Sound level																				
	Particle concentration																				
	Formaldehyde																				
	Volatile Organic Compounds (TVOC)																				
Pressure	Tyre pressure																				■
	Differential pressure																				
Planning and measuring	Coating thickness (car paint etc.)																				
	Distances																				
	Areas																				
	Room volumes																				
	Alignment and leveling																				
Electricity	Energy consumption / Energy costs																				
	AC voltage																				
	DC voltage																				
	AC																				
	DC																				
	Polarity																				
	RCD test																				
	Further electric parameters																				
Visual inspection	Endoscopic video inspections																				
	Photo / video documentation																				
Location and detection	Metals / Live cables																				
	Wood																				
	UV reflectors																				

A Quick Guide to the Measurement Application Possibilities of the Measuring Devices in the MultiMeasure Basic Series

BV15 WP	BA06	BA16	BA16 WP	BA30 WP	BC06	BC21	BC21 WP	BC25	BZ05	BZ06	BZ07	BZ15C	BZ15M	BZ20M	BZ21M	BZ22M	BZ25	BZ30	BL30	MultiMeasure Basic Measuring Device	
■			■	■			■													Smartphone control	🔊 appSensor
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	For indoor use	General use
■	■	■	■	■	■	■	■	■												For outdoor use	
																		■	■	Data logger function	
																				Liquid temperature	Temperature
																				Bulk material temperature	
																				Food temperature	
																				Surface temperature	
					■	■	■	■												Dew point temperature	
					■	■	■	■												Wet bulb temperature	
																				Contact temperature	
								■												HI / WBGT	
																				Wood moisture	Material moisture
																				Building moisture	
■	■	■	■	■																Air flow speed	Air flow
■		■	■	■																Air volume flow	
					■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	Relative humidity	Room climate and air quality
		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	Air temperature	
															■	■				Saturation humidity	
															■					Absolute humidity	
																■				Dew point temperature	
									■		■	■	■	■						Climate quality indication	
																	■	■		Air quality indication	
																				Break fluid	Liquid analysis
																				pH value	
																	■	■		Carbon dioxide	Emissions (gas, EMF, light, sound)
																				Carbon monoxide	
																				Methane and other flammable gase	
																				Microwave radiation	
																				Illumination level	
																				Sound level	
																				Particle concentration	
																				Formaldehyde	
																				Volatile Organic Compounds (TVOC)	
																				Tyre pressure	Pressure
■																				Differential pressure	
																				Coating thickness (car paint etc.)	Planning and measuring
																				Distances	
																				Areas	
																				Room volumes	
																				Alignment and leveling	
																				Energy consumption / Energy costs	Electricity
																				AC voltage	
																				DC voltage	
																				AC	
																				DC	
																				Polarity	
																				RCD test	
																				Further electric parameters	
																				Endoscopic video inspections	Visual inspection
																				Photo / video documentation	
																				Metals / Live cables	Location and detection
																				Wood	
																				UV reflectors	

A Quick Guide to the Measurement Application Possibilities of the Measuring Devices in the MultiMeasure Basic Series

MultiMeasure-Basic-Messgerät		BG30	BG40	BG20	BQ16	BQ21	BQ31	BR16	BF06	BF06 WP	BS06	BS30 WP	BB20	BB30	BD5A	BD7A	BD11	BD16	BD21	BD26	BI15
appSensor	Smartphone control									■		■									
General use	For indoor use	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	For outdoor use	■	■	■	■	■		■	■	■	■	■	■	■							
	Data logger function						■														
Temperature	Liquid temperature																				
	Bulk material temperature																				
	Food temperature																				
	Surface temperature																				
	Dew point temperature																				
	Wet bulb temperature																				
	Contact temperature																				
	HI / WBGT																				
Material moisture	Wood mositure																				
	Building moisture																				
Air flow	Air flow speed																				
	Air volume flow																				
Room climate and air quality	Relative humidity					■	■														
	Air temperature					■	■														
	Saturation humidity																				
	Absolute humidity																				
	Dew point temperature																				
	Climate quality indication																				
	Air quality indication						■														
Liquid analysis	Break fluid																				
	pH value																				
Emissions (gas, EMF, light, sound)	Carbon dioxide						■														
	Carbon monoxide		■	■																	
	Methane and other flammable gase	■	■																		
	Microwave radiation							■													
	Illumination level								■	■											
	Sound level										■	■									
	Particle concentration				■	■															
	Formaldehyde		■	■																	
	Volatile Organic Compounds (TVOC)			■																	
Pressure	Tyre pressure																				
	Differential pressure																				
Planning and measuring	Coating thickness (car paint etc.)												■	■							
	Distances																■	■	■	■	
	Areas																■	■	■	■	
	Room volumes																■	■	■	■	
	Alignment and leveling														■	■					
Electricity	Energy consumption / Energy costs																				
	AC voltage																				
	DC voltage																				
	AC																				
	DC																				
	Polarity																				
	RCD test																				
	Further electric parameters																				
Visual inspection	Endoscopic video inspections																				
	Photo / video documentation																				
Location and detection	Metals / Live cables																				■
	Wood																				■
	UV reflectors																				

A Quick Guide to the Measurement Application Possibilities of the Measuring Devices in the MultiMeasure Basic Series

BI20	UV5F	BH30	BN30	BN35	BX09	BX11	BX50 MID	BE14	BE15	BE16	BE17	BE20	BE38	BE40	BE44	BE47	BE50	BO21	BO26	MultiMeasure Basic Measuring Device	
																				Smartphone control ⌃ appSensor	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	For indoor use	General use
	■							■	■	■	■	■	■	■	■	■	■	■	■	For outdoor use	
																				Data logger function	
																				Liquid temperature	Temperature
																				Bulk material temperature	
																				Food temperature	
																				Surface temperature	
																				Dew point temperature	
																				Wet bulb temperature	
																	■			Contact temperature	
																				HI / WBGT	
																				Wood mosiure	Material moisture
																				Building moisture	
																				Air flow speed	Air flow
																				Air volume flow	
		■																		Relative humidity	Room climate and air quality
			■	■																Air temperature	
																				Saturation humidity	
																				Absolute humidity	
																				Dew point temperature	
																				Climate quality indication	
																				Air quality indication	
																				Break fluid	Liquid analysis
																				pH value	
																				Carbon dioxide	Emissions (gas, EMF, light, sound)
																				Carbon monoxide	
																				Methane and other flammable gase	
																				Microwave radiation	
																				Illumination level	
																				Sound level	
																				Particle concentration	
																				Formaldehyde	
																				Volatile Organic Compounds (TVOC)	
																				Tyre pressure	Pressure
																				Differential pressure	
																				Coating thickness (car paint etc.)	Planning and measuring
																				Distances	
																				Areas	
																				Room volumes	
																				Alignment and leveling	
					■	■	■													Energy consumption / Energy costs	Electricity
								■	■	■	■	■	■	■	■	■	■			AC voltage	
											■	■	■	■	■	■	■			DC voltage	
							■							■	■					AC	
														■	■					DC	
											■	■		■	■	■	■			Polarity	
											■									RCD test	
							■					■	■	■		■	■			Further electric parameters	
																		■	■	Endoscopic video inspections	Visual inspection
																			■	Photo / video documentation	
■																				Metals / Live cables	Location and detection
■																				Wood	
	■																			UV reflectors	

BT20 Insertion thermometer

Quick temperature control – seductively easy

The long, slim, stainless steel measuring tip and the wide measuring range from -40 °C to +250 °C make this practical insertion thermometer ideal for a variety of measuring applications in gastronomy, trade, craft and industry, as well as in laboratories and for hobby enthusiasts.

The plastic housing of the BT20 can be cleaned easily and is fitted with both a rubber, soft-touch, protective cover for exceptional grip and also a splash guard.

From preparing meat on the barbecue to preparing materials for construction – the BT20 lets you quickly and easily measure the temperature of water, oils and other liquids, gases, powders, bulk materials or plastics.

For example, monitor the course of temperature during setting or curing, or check processing or preparation temperatures – the BT20 is even perfectly suited as a roasting thermometer for private chefs.

A few practical benefits

- Quick and easy core temperature measurements
- Broad measuring range
- Maximum, minimum value and hold function
- Easy handling and cleaning
- Rapid response time
- Soft-touch rubber protective cover
- Stainless steel measuring tip

1.5 V
LR44

+

1x

Technical data

Article number	3.510.205.001
Measuring range	-40 °C up to 250 °C / -40 °F up to 482 °F
Accuracy	±1.5 % or ±2 °C / ±3.8 °F of measuring range
Resolution	0.1 °C / 0.1 °F
Response time	2 s
Functions	Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Automatic switch-off
Power supply	1 x 1.5 V, LR44
Dimensions	211 mm x 19 mm x 32 mm
Weight	40 g
Scope of delivery	Measuring device, Battery(-ies), Protective cover for measuring tip, Operating manual

BT22WP Thermometer controlled via smartphone

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The BT22WP digital thermometer is equipped with an ultra-thin probe which makes it an ideal device for measuring the ambient temperature of non-aggressive gases in places that are difficult to access; e.g. in sewer systems or shafts. It also serves to measure the temperature of non-aggressive liquids and semi-solid materials.

With its compact dimensions and the rod-shaped measuring probe (Ø 4 mm, L = 93 mm), the BT22WP also has an advantage over conventional thermometers. The device is compatible with Bluetooth 4.0 and comes with the MultiMeasure Mobile App (Android and iOS) that allows you to display, evaluate and permanently record measured temperature values on a smartphone or tablet. Graphic evaluations, report functions, history monitoring as well as flexible exports (Excel, CSV, PDF) of the saved measurement data are easily possible via the app-controlled measurement data management.

Thanks to its ultra-fine temperature probe with a length of 93 mm, the BT22WP measures the temperature of air as well as non-aggressive gases, semi-liquid materials and non-aggressive liquids in the temperature range between -50° C to 150 °C, when it is impossible to use conventional digital thermometers due to their design. The temperature probe made of high-quality stainless steel is stable and easy to clean.

NEW

appSensor®

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and easy temperature measurement of air and liquids
- High-quality sensor technology and numerous measuring functions
- Intelligent combination of appSensor and the MultiMeasure Mobile app
- Maximum or minimum value and hold function
- Logging function
- Chart representation of measurement data
- Report generation
- Average value determination
- Alarm function
- Automatic switch-off
- Magnetic holder to allow for hands-free working
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design – protected design patent

1.5V AAA 3x

Technical data

Article number		3.510.205.009
Temperature	Measuring range	-50 °C up to 150 °C / -58 °F up to 302 °F
	Accuracy	±2 °C / ±3.6 °F (at < 0 °C) ±1 °C / ±1.8 °F (at ≥ 0 °C)
	Resolution	0.1 °C / 0.1 °F
Functions		Battery status indication, Minimum value display, Maximum value display, Average value display, Measured value hold function, Automatic switch-off, Alarm function, Representation of measurement data as chart or table, Data export, Report generation function
Data interface		Bluetooth 4.0
Power supply		3 x 1.5 V, AAA
Dimensions		22 mm x 36 mm x 223 mm
Weight		90 g
Scope of delivery		Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories		Bag for WP-appSensors (3510206090)

BT40 Barbeque thermometer

Wireless temperature control for barbecue grill, frying pan and baking oven

This wireless barbeque thermometer is a must-have for every ambitious hobby chef who wants to treat his guests and friends to perfectly prepared meat dishes without having to spent all his time at the stove or grill.

The easy-to-handle BT40 can be used on the grill, stove or in the oven: As soon as you insert the measuring tip in the food to be cooked, the base station connected to the temperature measuring probe starts to transmit the current temperature at frequent intervals to the mobile receiver, which indicates that the desired degree of doneness has been reached by means of an acoustic signal and change of the display colour.

Be it beef, lamb, veal, pork, fish, chicken, turkey or burger patties – eight different types of food can be preselected on the receiver with up to five cooking levels ranging from rare to well done. The respectively preset target temperatures can be modified as desired.

Stopwatch and timer functions complete the features of the BT40 barbeque thermometer, which owing to its radio range of up to 20 m is also ideally suited foe the mobile application out of doors. That way, every meal is prepared and done to wireless perfection.
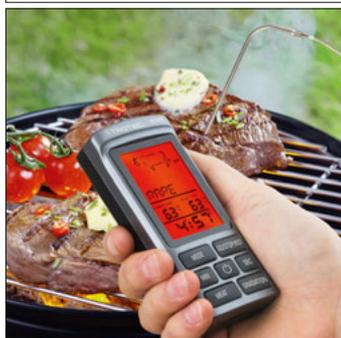
A few practical benefits

- Integrated cooking assistant for 8 preselectable types of meat or food
- Up to 5 cooking levels and individual target temperature selectable
- Acoustic signal and change of display colour when reaching the desired degree of doneness
- Radio range of up to 20 m
- Stainless steel measuring probe and cable suitable for temperatures of up to 250 °C
- Large and easy-to-read LCD display
- Stopwatch and timer function
- Hand-held receiver with magnetic holder and pocket clip
- Base station with magnetic holder and Velcro® strap

Technical data

Article number	3.510.205.007
Measuring range	0 °C up to 250 °C / 32 °F up to 482 °F
Accuracy	4 %
Resolution	1 °C / 1 °F
Response time	30 s
Range	Max. 20 m
Functions	Cooking assistant (8-fold), 5 cooking levels, Display colour change function, Radio transmission, Switching function °C/°F, Stopwatch function, Timer function, Visual signal transmitter, Acoustic signal transmitter
Power supply	Base station 2 x 1.5 V, AAA Hand-held receiver 2 x 1.5 V, AAA
Weight	200 g
Scope of delivery	Base station with magnetic holder and Velcro strap, Hand-held receiver with magnetic holder and pocket clip, Stainless steel measuring probe with stainless steel connecting cable, Battery(-ies), Operating manual

BP2F Food thermometer

Combination device for surface and core temperature measurements

Two kinds of food temperature control in one device: On the one hand you can use the compact BP2F to quickly determine the surface temperature of individual foodstuffs or entire product ranges using non-contact infrared detection – particularly convenient for quick, reliable temperature scans of incoming goods or upon inspections. At a distance of 10 cm from the measured material, the measuring spot diameter is 25 mm.

If the measured values are outside the tolerance or if you want to determine the core temperature as well, you can additionally use the fold-out stainless steel penetration probe for temperature control. When folding out the penetration probe, the BP2F is automatically activated and infrared measurement starts immediately at the push of a button. All measured temperature values are clearly visible as they are indicated in large digits on the illuminated display.

Moreover the alarm function for freely definable maximum and minimum temperature limit values allows for a quick and precise use of the measuring device depending on your individual requirements – for example for monitoring cold chains or cooking temperatures. Due to the robust, washable IP65 housing, the BP2F is the reliable solution for food temperature controls in accordance with the HACCP standard carried out by manufacturers and inspectors as well as in trade, gastronomy and transportation.

A few practical benefits

- Infrared and insertion thermometer in one device
- Core temperature measurements from -40 °C to +200 °C – or up to +280 °C by non-contact infrared measurement
- 25 mm measuring spot Ø at a distance of 100 mm from the measuring object
- Retractable and lockable core temperature probe
- Robust washable IP65 construction
- Alarm function for maximum/ minimum temperature limits
- Backlit display
- Integrated LED lamp
- Meets the specifications of the LFGB, §31 (German Food and Feed Code)
- Conforms with DIN 10955:2004
- Battery status indication

Technical data

Article number		3.510.003.017
Measuring range	Probe	-40 °C up to 200 °C / -40 °F up to 392 °F
	Infrared	-40 °C up to 280 °C / -40 °F up to 536 °F
Accuracy	Probe	±2 °C (at ≤ 0 °C) ±1 °C / ±1 % (at 0 °C up to 200 °C)
	Infrared	±3 °C (at -40 °C up to 20 °C) ±1 °C (at ≥ 20 °C up to 280 °C)
Degree of emission		0.95
Response time		< 0.5 s
Optical resolution (D:S)		4:1
Type of protection		IP65
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Automatic switch-off, Backlit display, Alarm function with user-defined limit values, Acoustic alarm function, Battery status indication
Power supply		2 x 1.5 V, AAA
Dimensions		140 mm x 24 mm x 38 mm
Weight		150 g
Scope of delivery		Measuring device, Battery(-ies), Operating manual

BP5F Food thermometer

Combined surface and core temperature measurements in conformity with HACCP standards

Thanks to the robust, washable IP65 construction, the BP5F is the universally applicable solution for testing food temperature compliance with HACCP standards.

Whether you work in manufacturing, inspecting, transportation, trade or gastronomy, testing temperatures with the BP5F – for example, to monitor cooling chains or thawing temperatures – is quick and reliable. A measuring spot diameter of a mere 5 mm at a distance of 10 cm from the measuring object enables pinpoint results.

As well as showing the digital values on the display, a built in LED quick indicator shows at a glance whether the temperature ranges are compliant with HACCP values.

The BP5F uses infrared to quickly measure surface temperatures contact-free, while showing the measuring spot and it also allows you to measure core temperatures with the 7.5 cm stainless steel probe. The probe can be retracted into the handle and locked, making this combination device safe and compact enough for any jacket pocket.

A few practical benefits

- Development, design, production: 100 % Trotec
- Infrared and insertion thermometer in one device
- Core temperature measurements from -40 °C to +200 °C – or up to +280 °C by non-contact infrared measurement
- 5 mm measuring spot Ø at a distance of 100 mm from the measuring object
- Extremely compact due to retractable, lockable core temperature probe
- Robust washable IP65 construction
- Backlit display
- LED quick indicator lights for HACCP compliant temperature ranges
- Meets the specifications of the LFGB, §31 (German Food and Feed Code)
- Conforms with DIN 10955:2004
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.003.020
Measuring range	Probe	-40 °C up to 200 °C / -40 °F up to 392 °F
	Infrared	-40 °C up to 280 °C / -40 °F up to 536 °F
Accuracy	Probe	±1 °C (at ≤ 65 °C) ±1 % (at > 65 °C)
	Infrared	±2 °C (at < -4 °C) ±1 °C (at -4 °C up to 65 °C) ±1.5 % (at > 65 °C)
Degree of emission		0.95
Response time		< 0.5 s
Optical resolution (D:S)		20:1
Type of protection		IP65
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Automatic switch-off, Backlit display, HACCP quick indicator LED, Timer function
Power supply		1 x 9 V block battery
Dimensions		185 mm x 50 mm x 67 mm
Weight		180 g
Scope of delivery		Measuring device, Battery(-ies), Operating manual

BP15 Pyrometer

The popular standard IR thermometer in pistol model

The handy design and classical measuring functions of a modern pyrometer turn the BP15 series into one of the most popular standard IR thermometers for workshop, hobby and craft applications.

Due to the handy pistol model and the large measuring range from -30 °C to +260 °C, you always have your non-contact temperature measuring with the BP15 well in hand.

Practical functions such as the additional instantaneous values and maximum or minimum value display make the BP15 a universal standard pyrometer for many measuring tasks in the private or professional sector.

For quick measuring point identification a visual targeting laser can also be connected, if necessary.
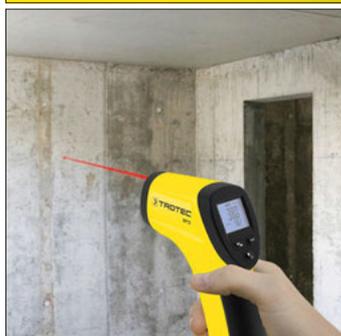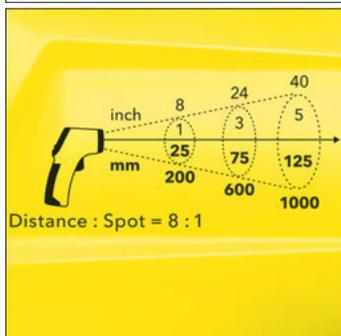
A few practical benefits

- Non-contact surface temperature measuring from -30 °C to +260 °C
- Simple detection of measuring spot centre by means of connectable visual targeting laser
- Measuring optic 8:1
- Maximum, minimum value and hold function
- Backlit display
- Automatic switch-off

Technical data

Article number	3.510.003.028
Measuring range	-30 °C up to 260 °C / -22 °F up to 500 °F
Accuracy	±2 % or ±2 °C of measured value
Resolution	0.1 °C
Smallest measuring spot	Ø 25 mm (Distance 200 mm)
Degree of emission	0.95
Response time	< 1 s
Spectral sensitivity	8 - 14 µm
Optical resolution (D:S)	8:1
Functions	Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Automatic switch-off, Backlit display, Selectable single laser pointer
Power supply	1 x 9 V block battery
Dimensions	131 mm x 35 mm x 96 mm
Weight	130 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Operating manual

BP17 Pyrometer

Variably adjustable sensitivity levels of 1 °C, 3 °C and 5 °C

Thanks to its equipment and the optimum value-for-money ratio, the BP17 is perfectly suited for applications in the business and hobby sector.

With an optical resolution of 10:1 the pyrometer measures temperature values in the range from -50 to +380 °C without contact. For temperature measurements sensitivity levels of 1 °C, 3 °C and 5 °C can be preselected – depending on a reference temperature. Exceeding or falling below this preselected differential value is indicated by an acoustic and visual alarm function. Using the selectable visual targeting laser, you can easily determine the centre of the measuring point.

Moreover, the backlit display and the automatic switch-off function as well as the user-friendly pistol design of the infrared thermometer ensure effortless working.

A few practical benefits

- Development, design, production: 100 % Trotec
- Non-contact surface temperature measurement from -50 °C to +380 °C
- Selectable visual targeting laser
- Measuring optic 10:1
- Acoustic and visual alarm when exceeding/falling below a preselectable temperature difference
- Selectable sensitivity levels: OFF / 1 °C / 3 °C / 5 °C
- Backlit display
- Battery status indication
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number	3.510.003.029
Measuring range	-50 °C up to 380 °C / -58 °F up to 716 °F
Accuracy	±2 °C / ±2 % (at > 0 °C) ±3 °C (at ≤ 0 °C)
Resolution	0.1 °C
Smallest measuring spot	Ø 12.7 mm (Distance 127 mm)
Degree of emission	0.95
Response time	< 0.5 s
Spectral sensitivity	8 - 14 μm
Optical resolution (D:S)	10:1
Functions	Switching function °C/°F, Automatic switch-off, Backlit display, Selectable single laser pointer, LED indication when exceeding/falling below the threshold, Visual signal transmitter, Acoustic signal transmitter, Automatic reference temperature, Battery status indication
Power supply	1 x 9 V block battery
Dimensions	130 mm x 45 mm x 149 mm
Weight	190 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Operating manual

BP21 Pyrometer

Non-contact temperature measurement – quick and precise

Minimum cost – maximum performance:
The BP21 impresses with first-rate performance data in this device class, e.g. with a wide temperature range, optical resolution of 12:1, degree of emission adjustable according to the specific material and with an innovative dual laser automatically visualizing the measuring spot size.

After no more than a few seconds the BP21 is ready for operation and quickly and reliably captures temperature values ranging from -35 °C to +800 °C.

The pyrometer can not only hold the current measured value, but also display maximum or minimum value, and it can be programmed with individual limit values, upon the exceedance of which an acoustic alarm signal will be emitted automatically.

The user-friendly design and comprehensive equipment features make the BP21 a versatile infrared thermometer for industrial, handicraft and hobby applications.
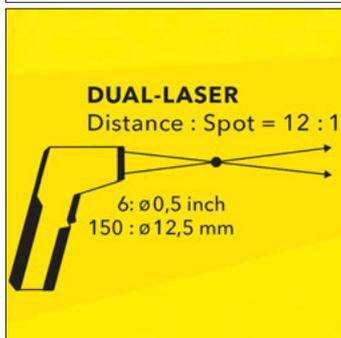
A few practical benefits

- Development, design, production: 100 % Trotec
- Non-contact surface temperature measurement from -35 °C to +800 °C
- Measuring spot diameter display due to on-demand dual laser
- Measuring optic 12:1
- Degree of emission freely adjustable from 0.1 to 1.0
- Maximum, minimum value and hold function
- Backlit display
- Alarm function
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

9 V E

1 x

DUAL-LASER
Distance : Spot = 12 : 1

6: ø0,5 inch
150 : ø12,5 mm

100%
TROTEC · DEVELOPMENT » DESIGN » PRODUCTION

Technical data

Article number	3.510.003.031
Measuring range	-35 °C up to 800 °C / -31 °F up to 1,472 °F
Accuracy	±2 °C or ±2 % of measured value
Resolution	0.1 °C
Smallest measuring spot	Ø 12.5 mm (Distance 150 mm)
Degree of emission	0.1 up to 1.0
Response time	0.3 s
Spectral sensitivity	8 - 14 µm
Optical resolution (D:S)	12:1
Functions	Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Automatic switch-off, Backlit display, Selectable dual laser, Alarm function with user-defined limit values, Acoustic alarm function, Non-stop measuring function
Power supply	1 x 9 V block battery
Dimensions	150 mm x 45 mm x 108 mm
Weight	177 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Operating manual

BP21WP Pyrometer controlled via smartphone

The BP21WP impresses with sensible performance data and features in this device class including an optical resolution of 10:1, a temperature measuring range between -30 °C and +250 °C, a degree of emission adjustable according to the specific material or a useful multi-point laser, which automatically visualizes the size of the measuring spot.

The combined application of the appSensor and the appertaining, free MultiMeasure Mobile app comes with many valuable and practical advantages for the user, e.g. the multi-coloured graphic representation of temperature curves or of the temperature distribution on a wall by means of a colour matrix as otherwise only way more expensive measuring devices can achieve.

With MultiMeasure Mobile you can make use of many more specific sensor features and analysis functions. Besides the indication of minimum, maximum and average values you can for example define individual limit values – exceeding or falling below these thresholds automatically triggers an alarm. Compare temperatures measured at different points in time directly on site or use the appSensor along with the corresponding thermohygrometer appSensor for a differentiated dew point control.

A few practical benefits

- Development, design, production: 100 % Trotec
- Non-contact surface temperature measurement from -30 °C to +250 °C
- Multi-point laser
- Measuring optic 10:1
- Maximum, minimum value and hold function
- High-quality sensor technology and numerous measuring functions
- Intelligent combination of appSensor and The MultiMeasure Mobile app
- Logging function
- Chart representation of measurement data
- Report generation
- Alarm function
- Automatic switch-off
- Magnetic holder to allow for hands-free working
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design – protected design patent

1,5V AAA 3x

Technical data

Article number	3.510.006.031
Measuring range	-30 °C up to 250 °C / -22 °F up to 482 °F
Accuracy	±3 °C (at > 0 °C) ±2 °C / ±2 % (at ≤ 0 °C)
Resolution	0.1 °C / 0.1 °F
Smallest measuring spot	Ø 12.7 mm (Distance 254 mm)
Degree of emission	0.95
Response time	0.3 s
Spectral sensitivity	8 - 14 μm
Optical resolution (D:S)	10:1
Functions	Battery status indication, Minimum value display, Maximum value display, Average value display, Hold function, Automatic switch-off, Alarm function, Long-term measurement function, Multi-point laser aiming aid, Non-contact measurement method, Representation of measurement data as chart, matrix or table, Data export, Report generation function
Data interface	Bluetooth 4.0
Power supply	3 x 1.5 V, AAA
Dimensions	24.3 mm x 37 mm x 150.5 mm
Weight	110 g
Scope of delivery	Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories	Bag for WP-appSensors (3510206090)

BP25 Pyrometer (dew point scanner)

Universal pyrometer to accurately locate areas where condensation can form

The BP25 can accurately locate potential drops below dew point on material surfaces and positions where mould can form or insulation is poor.

Using the BP25, surface temperatures as well as current room climate values can be determined in one measuring process.

The pyrometer combines these values to calculate the dew point threshold at the measuring spot and gives an acoustic and visual alarm in the event of a risk of condensation due to a drop below dew point.

An indicator light with traffic-light colours shows whether the surface temperature at the measured point is in a safe, green range. At borderline temperatures, the colour changes to orange and when the temperature drops below dew point, a red LED with an additional acoustic alarm emits a warning.

A few practical benefits

- Development, design, production: 100 % Trotec
- One device for measuring surface temperature, air temperature, relative humidity and dew point temperature
- Acoustic and visual dew point alarm
- Measuring spot diameter display due to on-demand dual laser
- Measuring optic 20:1
- Bar graph indicator for the quick identification of condensation risks
- Backlit display
- Battery status indication
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.003.035
Surface temperature	Measuring range	-50 °C up to 260 °C / -58 °F up to 500 °F
	Accuracy	±3.5 °C (at < 20 °C) ±1.5 °C / 1 % (at ≥ 20 °C)
Air temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Accuracy	±1 °C (at 10 °C up to 40 °C) ±1.5 °C (at < 10 °C, > 40 °C)
Humidity	Measuring range	0 % RH up to 100 % RH
	Accuracy	±3.5 % (20 % RH up to 80 % RH)
Dew point temperature	Measuring range	-30 °C up to 100 °C / -22 °F up to 212 °F
	Accuracy	±2.0 %
Smallest measuring spot		Ø 25.4 mm (Distance 508 mm)
Degree of emission		0.95
Response time		< 0.15 s
Spectral sensitivity		8 - 14 µm
Optical resolution (D:S)		20:1
Functions		Switching function °C/°F, Automatic switch-off, Backlit display, Selectable dual laser, Acoustic dew point alarm, Visual dew point alarm, Bar graph indicator for the quick identification of condensation risks
Power supply		1 x 9 V block battery
Dimensions		168 mm x 58 mm x 82 mm
Weight		163 g
Scope of delivery		Measuring device, Battery(-ies), Bag/Holster, Operating manual

BW05 Brake fluid tester

Digital inspection of the water content in brake fluid

Whether used in a car workshop or at home in your garage: the easily manageable brake fluid tester BW05 is the perfect measuring device for quickly and precisely determining the water content in a vehicle's brake fluid. The BW05 serves to check the three most important types of brake fluid DOT3, DOT4 and DOT5.1 and, what is more, conceivably easy to use:

Having selected the test mode for the respective type of brake fluid, the sensors of the digital measuring device can be dipped into the fluid. Based on the traffic light principle three colour LEDs indicate the water percentage result in a matter of only a few seconds: Green light suggests that you are all set and ready to go, since the share of water amounts to less than 1.5%. Yellow signifies that you may proceed with your journey, but should frequently reexamine the water content that is already between 1.5 and 3 %. And with more than 3 % the red light denotes the immediate necessity of exchanging the brake fluid to prevent a failure of the hydraulic braking system

At the end of the check-up switch the BW05 off, clean the sensors with a dry cloth and store the measuring device in a dry location until it is needed again. Should you forget to switch the device off by hand, no need to worry: the tester switches off automatically after a period of 20 seconds.
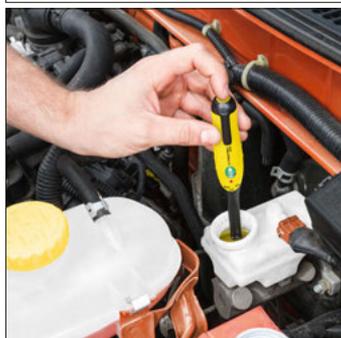
A few practical benefits

- Suitable for cars, motorcycles and trucks
- Checking the water concentration in brake fluids of type DOT3, DOT4 and DOT5.1 in a matter of seconds
- Self-explanatory LED status indication based on the traffic light principle
- Simple application
- No expert knowledge required
- Compact pen-shaped design with pocket clip
- Battery change indicator
- Automatic switch-off
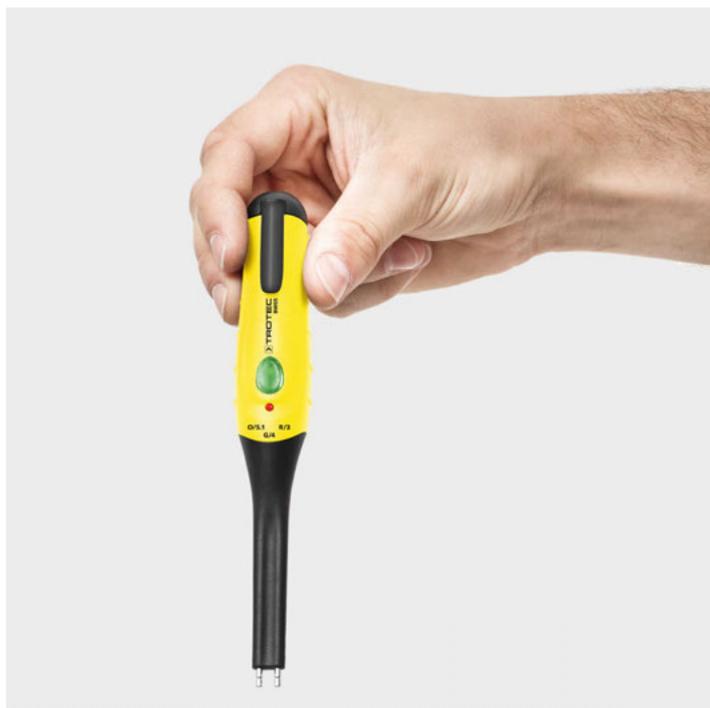
Technical data

Article number	3.510.205.805
Brake fluids	DOT3, DOT4, DOT5.1
Functions	Brake fluid test for DOT3, DOT4 and DOT5.1 (traffic light principle), Visual alarm, Automatic switch-off, Automatic battery test
Power supply	3 x 1.5 V, LR44
Dimensions	25 mm x 25 mm x 167.5 mm
Weight	32 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

BW10 pH measuring device

Precisely determined the pH value of solutions from acidic to alkaline

The compact, pocket-sized pH measuring device BW10 is suited just as well for aquarium and plant enthusiasts as it is for owners of a swimming pool. But the BW10 also makes a reliable companion for applications in the professional sector, e.g. measuring pH values for quality inspections in the beverage and food industry or for a quick and reliable assessment of the water quality.

With the automatic temperature compensation and the automatic calibration functions the measuring device permits a quick and precise determination of the pH value between pH 0 and pH 14 in the temperature measuring range between 0 and 50 °C. The three-point calibration is already carried out before leaving the factory, but using the supplied pH buffer solution set it can also be repeated at any time with very little effort. The test result is indicated on the clearly legible two-line display. The determined pH value is displayed along with the water temperature – accurate to two decimal places.

The practice-optimized pH measuring device BW10 comes equipped with an easily exchangeable pH electrode. Electrode and water temperature probe are protected from damage by means of a removable protective cap. Owing to a convenient hold function it is not necessary to write down the previously measured value.

A few practical benefits

- Two-line display for the simultaneous indication of pH value and water temperature
- Automatic temperature compensation (ATC) for precise measurements, when the liquids to be tested have different temperatures
- Three-point calibration ex factory
- Automatic calibration for pH 4.01/7.00/10.01
- Easily exchangeable pH electrode
- Hold function
- Incl. pH buffer solution set (4.01/7.00/10.01) and protective cap
- Automatic switch-off

Technical data

Article number		3.510.205.810
pH value	Measuring range	0.00 pH up to 14.00 pH
	Accuracy	±0.02 pH
	Resolution	0.01 pH
Temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Accuracy	±0.2 °C / ±2 °F
	Resolution	0.1 °C / 1 °F
Display		LCD
Type of protection		IP65
Functions		Hold function, Switching function °C/°F, Automatic switch-off, Exchangeable pH electrode, Dual display of pH value and water temperature, Automatic temperature compensation, Auto calibration function for pH 4.01/7.00/10.01
Power supply		4 x 1.5 V, LR44
Dimensions		188 mm x 38 mm x 38 mm
Weight		83 g
Scope of delivery		Measuring device, pH buffer solution set (4.01/7.00/10.01), Battery(-ies), Operating manual

BM12 Moisture measuring device

Quick determination of wood and building moisture

With the fool-proof, easy-to-handle BM12 you can measure wood and building moisture within seconds. The easily changeable steel insertion measuring pins ensure a solid connection to the test material and thus precise measuring results. With two selectable measuring modes you can set and use the BM12 either for wood moisture measurements of sawn timber and firewood or the building moisture measurement in soft building materials such as gypsum, plaster or screed.

In addition to material moisture the device also measures the ambient temperature, which can optionally be read either in °C or in °F.

Furthermore, the device comes with automatic switch-off function for a long battery life. Hence, the moisture indicator switches itself off after approx. 2 minutes of non-use.

A calibration curve for the moisture measurement of wood types common in Europe is also stored in the device. Therefore, no further settings are required for the determination of the wood moisture content.

A few practical benefits

- Wood and material moisture measurement with one device
- With protective cap
- Ready for immediate use
- Ambient temperature indication either in °C or in °F
- Calibration curve for common types of wood
- Easily changeable steel insertion measuring pins
- Direct display of measured values in %
- Mode selection key
- Battery status indication
- Automatic switch-off

1.5 V
LR44

4x

Technical data

Article number		3.510.205.022
Measuring principle		Resistance measuring method
Electrode length		approx. 8 mm
Electrodes		Integrated, replaceable
Wood moisture	Measuring range	6 % up to 44 %
	Accuracy	approx. ±2 %
	Resolution	1 %
Building moisture	Measuring range	approx. 0.2 % up to 2 %
	Accuracy	approx. ±0.2 %
	Resolution	0.1 %
Temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Accuracy	approx. ±1 °C
	Resolution	1 °C / 2 °F
Surrounding conditions		0 °C up to 50 °C / 0 % RH up to 85 % RH
Functions		Switching function °C/°F, Material selection, Backlit LCD monitor, Automatic switch-off, Battery status indication
Power supply		4 x 1.5 V, LR44
Dimensions		96 mm x 20 mm x 40 mm
Weight		83 g
Scope of delivery		Measuring device, Battery(-ies), Protective cap, Electrode tips (2.2 x 8 mm), Operating manual

BM18 Moisture measuring device

Reliable measurements of wood and building moisture at the touch of a button

It takes only one button to switch the BM18 on and effect all settings. For the measuring modes (wood moisture, building moisture) and temperature (°C, °F) selection, press and hold the button for roughly 3 seconds.

In case of temperature measurements, the device indicates the current ambient temperature. In case of moisture measurements, simply push the insertion measuring pins a few millimetres into the material to be measured. This way, you obtain precise and quick results. When measuring in dark surroundings, one touch of the button activates the background illumination. It goes out again automatically after 3 seconds. Three integrated LEDs indicate, similiar to a traffic light, the humidity level.

When not in use, the device switches off automatically after 30 seconds to ensure a long battery life. An insufficient battery voltage is indicated on the clearly legible display in good time.

The memory of the BM18 includes a calibration curve for the moisture measurement of wood types common in Europe. No further settings are required for the determination of the wood moisture content.

A few practical benefits

- Wood and material moisture measurement with one device
- With protective cap
- Ready for immediate use
- Ambient temperature indication either in °C or in °F
- Calibration curve for common types of wood
- Incl. LED moisture indicator
- Simple handling via one button
- Easily changeable steel insertion measuring pins
- Direct display of measured values in %
- Mode selection key
- Battery status indication
- Automatic switch-off

Technical data

Article number		3.510.205.023
Measuring principle		Resistance measuring method
Electrode length		approx. 8 mm
Electrodes		Integrated, replaceable
Wood moisture	Measuring range	6 % up to 60 %
	Accuracy	±2 % (at < 30 %) ±4 % (at ≥ 30 %)
	Resolution	1 %
Building moisture	Measuring range	approx. 0.2 % up to 2.9 %
	Accuracy	±0.1 % (at < 1.4 %) ±0.2 % (at ≥ 1.4 %)
	Resolution	0.1 %
Temperature	Measuring range	0 °C up to 40 °C / 32 °F up to 99 °F
	Accuracy	Not specified
	Resolution	1 °C / 2 °F
Surrounding conditions		0 °C up to 40 °C / 0 % RH up to 85 % RH
Functions		LED moisture indicator, Material selection, Hold function, Switching function °C/°F, Automatic switch-off, Backlit display, Battery status indication
Power supply		1 x 9 V block battery
Dimensions		122 mm x 45 mm x 51 mm
Weight		115 g
Scope of delivery		Measuring device, Battery(-ies), Protective cap, Electrode tips (2.2 x 8 mm), Operating manual

BM22 Moisture measuring device

Quick measurement of wood and building moisture

The easily exchangeable steel insertion measuring pins of the BM22 enable a solid connection to the test material and ensure reliable measuring results for the wood moisture measurement of sawn timber and firewood or the material moisture measurement in soft building materials such as gypsum, plaster or screed.

A bar scale and the additional direct moisture value display in absolute percentages simplify reading the measured moisture values. Two different scale ranges for wood and building materials increase the accuracy. Three integrated LEDs offer a simple humidity indication by means of the traffic light principle.

For wood moisture measurement a calibration curve is stored in the device, which corresponds to the average of the relevant kinds of wood in Europe based on a wood temperature of 20 °C. Therefore, no further settings are required for a quick indication of the wood moisture content.

Further integrated in the protective cap of the device is a reference adapter for the control of the battery status and functions. The likewise integrated LED torch enables working even at twilight or in storerooms which are not brightly illuminated.
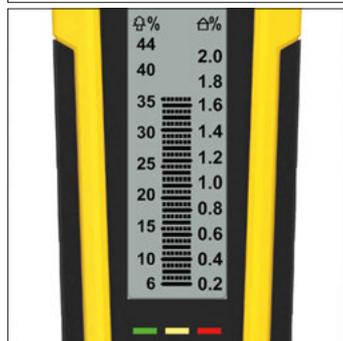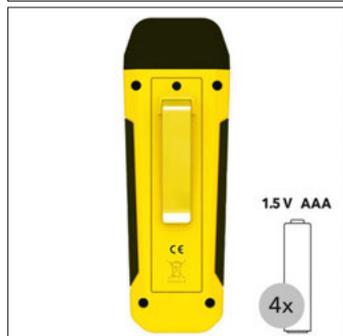
A few practical benefits

- Development, design, production: 100 % Trotec
- Wood and material moisture measurement with one device
- Double scale for wood moisture and material moisture
- Incl. protective cap with integrated testing function
- Ready for immediate use
- Ambient temperature indication either in °C or in °F
- Calibration curve for common types of wood
- Incl. LED moisture indicator
- Integrated LED torch
- Easily changeable steel insertion measuring pins
- Direct display of measured values in %
- Automatic testing of functions and battery
- Pocket clip
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.025
Measuring principle		Resistance measuring method
Electrode length		approx. 8 mm
Electrodes		Integrated, replaceable
Wood moisture	Measuring range	6 % up to 44 %
	Accuracy	±2 % (at < 30 %) ±4 % (at ≥ 30 %)
	Resolution	1 %
Building moisture	Measuring range	approx. 0.2 % up to 2 %
	Accuracy	±0.1 % (at < 1.4 %) ±0.2 % (at ≥ 1.4 %)
	Resolution	0.05 %
Temperature	Measuring range	0 °C up to 40 °C / 32 °F up to 104 °F
	Accuracy	Not specified
	Resolution	1 °C / 2 °F
Surrounding conditions		0 °C up to 40 °C / 0 % RH up to 85 % RH
Functions		LED moisture indicator, Switching function °C/°F, Automatic switch-off, Automatic functional test, Automatic battery test, Belt clip
Power supply		4 x 1.5 V, AAA
Dimensions		155 mm x 34 mm x 52 mm
Weight		135 g
Scope of delivery		Measuring device, Battery(-ies), Electrode tips (2.2 x 8 mm), Operating manual

BM22WP Material moisture measuring device controlled via smartphone

The BM22WP is an electronic moisture indicator by use of which one can quickly and easily detect near-surface moisture in different materials. The easily exchangeable steel insertion measuring pins of the BM22WP enable a solid connection to the test material and ensure quick measuring results for the wood moisture measurement of sawn timber and firewood or the material moisture measurement in soft building materials such as gypsum, plaster or screed.

Combining the appSensor and the appertaining, free MultiMeasure Mobile app offers valuable and practical advantages for the user such as elaborate graphic representations e.g. a humidity matrix visualisation. In terms of flexibility, analysis functions, data control and documentation the appSensor offers considerably more functions than other moisture measuring devices. The minimum, maximum and average values for the determined material moisture parameters can be displayed fully automatically when transferred to the app.

Compare the humidity measurements created at different points in time or use the measured values for differentiated on-site analyses. Useful additional features as the alarm function, the export of measured humidity values to a secondary analysis software as well as the report generation function complete the universal application possibilities of the BM22WP.

A few practical benefits

- Development, design, production: 100 % Trotec
- Wood and material moisture measurement with one device
- High-quality sensor technology and numerous measuring functions
- Intelligent combination of appSensor and The MultiMeasure Mobile app
- Incl. protective cap with integrated testing function
- Logging function
- Chart representation of measurement data
- Report generation
- Easily changeable steel insertion measuring pins
- Automatic testing of functions and battery
- Alarm function
- Automatic switch-off
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design – protected design patent

1.5 V AAA
3x

appSensor®

Technical data

Article number		3.510.206.025
Measuring principle		Resistance measuring method
Electrode length		approx. 8 mm
Electrodes		Replaceable
Wood moisture	Measuring range	6 % up to 50 %
	Accuracy	approx. ±2 %
	Resolution	1 %
Building moisture	Measuring range	approx. 0.2 % up to 2.4 %
	Accuracy	approx. ±0.2 %
	Resolution	0.05 %
Surrounding conditions		-20 °C up to 60 °C (at < 80 %)
Functions		Battery status indication, Minimum value display, Maximum value display, Average value display, Hold function, Automatic switch-off, Alarm function, Long-term measurement function, Representation of measurement data as chart, matrix or table, Data export, Report generation function
Data interface		Bluetooth 4.0
Power supply		3 x 1.5 V, AAA
Dimensions		22 mm x 33 mm x 140 mm
Weight		103 g
Scope of delivery		Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories		Bag for WP-appSensors (3510206090)

TROTEC
DEVELOPMENT » DESIGN » PRODUCTION
100%

BM31 Moisture indicator

Quick localisation of near-surface moisture

The BM31 is an electronic moisture indicator by use of which one can quickly and easily detect near-surface moisture in different materials and expeditiously locate moisture distributions in wall, floor and ceiling.

Owing to the dielectric measurement method, moisture indication takes place in an absolutely non-destructive manner, no electrodes or probes have to be inserted into the material to be measured.

The BM31 is not only ready for immediate use, during measurement it also impresses with fast response times and at the push of a button shows the user helpful additional information such as minimum and maximum values in addition to the current real-time measured value on the easily legible back-lit display. Additionally, the momentarily measured value can be recorded via the hold function.

With the BM31 it is not only possible to quickly indicate different near-surface material moisture values, it is also especially suited for the preliminary check of the building materials' readiness for covering for CM measurements.
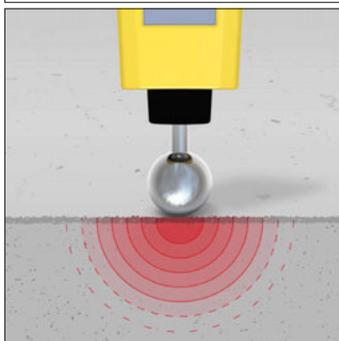
A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and non-destructive indication of moisture distributions in near-surface areas
- Useful pre-examination tool for CM measurements
- Maximum, minimum value and hold function
- Automatic testing of functions and batteries
- Ready for immediate use
- Backlit display
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number	3.510.205.031
Measuring principle	Dielectric/capacitive
Measuring range	0 Digit up to 100 Digit
Resolution	1 Digit
Penetration depth	5 mm up to 40 mm
Functions	Minimum value display, Maximum value display, Hold function, Automatic switch-off, Non-destructive measurement method, Backlit display
Power supply	1 x 9 V block battery
Dimensions	180 mm x 35 mm x 45 mm
Weight	180 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

BM31WP Moisture indicator controlled via smartphone

TROTEC

The BM31WP is an electronic moisture indicator by use of which one can quickly and easily detect near-surface moisture in different materials and expeditiously locate moisture distributions in walls, floor and ceiling. This procedure is perfectly non-destructive. With the BM31WP it is not only possible to quickly indicate different near-surface material moisture values, it is also especially suited for the preliminary check of the building materials' readiness for covering for CM measurements.

The combined application of the appSensor and the appertaining, free MultiMeasure Mobile app comes with many valuable and practical advantages for the user, e.g. an alarm function or the indication of minimum, maximum and average values. The coloured matrix representation of the measured humidity values or their export to a secondary analysis software as well as the generation of a report permit the BM31WP's universal application and render it a valuable addition for all building diagnostics tasks. As a result, the appSensor – unlike customary measuring devices – is not limited in its range of functions.

Compare the humidity measurements created at different points in time or use the measured values for differentiated on-site analyses.

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and non-destructive indication of moisture distributions in near-surface areas
- Useful pre-examination tool for CM measurements
- Intelligent combination of appSensor and The MultiMeasure Mobile app
- Maximum, minimum value and hold function
- Logging function
- Chart representation of measurement data
- Report generation
- Alarm function
- Auto calibration function upon switch-on
- Automatic switch-off
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design – protected design patent

1.5V AAA
2x

Technical data

Article number	3.510.206.031
Measuring principle	Dielectric/capacitive
Measuring range	0 Digit up to 100 Digit
Resolution	0.1 Digit
Penetration depth	40 mm
Functions	Battery status indication, Minimum value display, Maximum value display, Average value display, Hold function, Automatic switch-off, Alarm function, Long-term measurement function, Representation of measurement data as chart, matrix or table, Data export, Report generation function
Data interface	Bluetooth 4.0
Power supply	2 x 1.5 V, AAA
Dimensions	22 mm x 36 mm x 160 mm
Weight	93 g
Scope of delivery	Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories	Bag for WP-appSensors (3510206090)

Phone +49 2452 962-400 · Fax +49 2452 962-200 · info@trotec.com · www.trotec.com

HUMIDITY 27

BM40 Moisture measuring device

Non-destructive measurement of wood and building moisture

If you want to measure the moisture or monitor the drying process in materials such as wood, plaster or cementitious screed in a quick and, above all, non-destructive manner, the BM40 will be your reliable partner. To perform a measurement, the device's measuring electrodes are simply placed on the material to be tested. The moisture level is then measured by capacitive sensors using the dielectric measurement method, which is absolutely non-destructive since no electrodes or probes have to be inserted into the material to be measured. For an increased accuracy of the measured values, which are directly indicated in %, there are correction factors available for the different types of materials.

The ready-to-use BM40 impresses with fast response times during measurement. Moreover, the current real-time measured value can additionally be recorded on the clearly legible display via the hold function. An ambient temperature measurement, the battery status indicator and the energy-saving Auto-Off function complete the versatile range of functions.
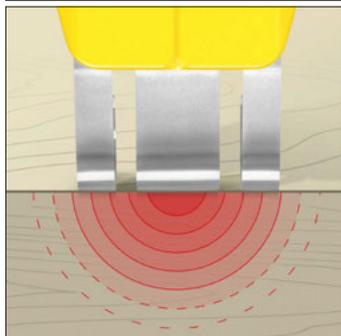
A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and non-destructive moisture measurement in mineral building materials and wood
- 10 selectable material curves for the most important types of wood and building materials
- Incl. ambient temperature measurement
- Simple handling via one button
- Direct display of measured values in %
- Battery status indication
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.035
Measuring principle		Dielectric/capacitive
Electrode length		approx. 40 mm
Measuring range	Solid brick	0 % up to 20 %
	Anhydrite screed	0 % up to 20 %
	Cement screed	0 % up to 20 %
	Sand-lime brick	0 % up to 20 %
	Gas concrete	0 % up to 20 %
	High-insulating brick	0 % up to 20 %
	Concrete	0 % up to 20 %
	Hardwood	0 % up to 50 %
	Softwood	0 % up to 50 %
	Chipboard	0 % up to 50 %
	Temperature	-10 °C up to 55 °C
Resolution	Wood	0.1 %
	Mineral building materials	0.1 %
	Temperature	1 °C
Penetration depth		0 mm up to 50 mm
Surrounding conditions		-5 °C up to 50 °C / 85 % RH
Functions		Automatic switch-off, Non-destructive measurement method, Battery status indication, Material selection
Power supply		1 x 9 V block battery
Dimensions		168 mm x 35 mm x 75 mm
Weight		220 g
Scope of delivery		Measuring device, Battery(-ies), Operating manual

BY10 Tyre pressure meter

Quick and easy tyre pressure control

Optimizing the bar value while saving ready cash: According to current studies, almost every third car owner drives with too little tyre pressure.

What many people are unaware of: A tyre pressure reduction of only 0.5 bar as opposed to the manufacturer's recommendation, the fuel consumption can increase by up to 6 %! To this a higher tyre wear and additional safety hazards such as longer stopping distances or instable cornering need to be added. Hence, regular tyre pressure measurements pay off in every respect!
Our recommendation: Do not rely on tyre pressure meter at petrol stations, which are often in poor condition, inaccessible or missing altogether. Using the BY10, you can conveniently and reliably determine the exact tyre pressure with digital precision at any time and read it on the LCD display.

Practical feature: Thanks to the integrated flashlight, the valve position, tyre tread and condition can also quickly and easily be recognized and visually inspected in the evening and the dark season. Since this tyre pressure meter fits onto all Schrader valves, which are not only used for all car tyres, but also for those of motorcycles, mountain bikes or many child's bicycles, it is a versatile tool for every household or business enterprise. With customary adapters the BY10 can further be used for many other tyre valve types.

A few practical benefits

- Digital measuring device for quick and precise tyre pressure control
- Simple reading of measured values due to large LCD display
- Suitable for all valves
- Integrated torch
- Automatic switch-off

Technical data

Article number	3.510.205.910
Measuring range	0.35 bar up to 6.9 bar 5 psi up to 100 psi 35 kPa up to 690 kPa
Accuracy	±1 %
Display	LCD with three-digit measured value display
Functions	Switching function bar/psi/kPa, Automatic switch-off, Integrated torch
Power supply	2 x 1.5 V, AAA
Dimensions	156 mm x 20 mm x 42 mm
Weight	82 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

BV15WP Differential pressure measuring device with anemometer function and smartphone operation

TROTEC

In addition to performing differential pressure measurements, the compact and versatile appSensor BV15WP also allows you to use optional Pitot tubes to carry out flow rate measurements. It is possible to measure very high air velocities of air or gases up to 150 m/s, where conventional wind turbine or hot-wire anemometers reach their limits due to their design. The compact hand-held measuring device does not only allow you to perform air current controls in ventilation ducts or other typical measuring tasks (from air-conditioning sector and ventilation technology). A multitude of additional fields of application is covered by the device, e.g. determining the filter status in air conditioning systems or differential pressure measurements in gas-fired boilers.

The multifunctionality of the Bluetooth 4.0-compatible BV15WP is further enhanced by the MultiMeasure Mobile App (Android and iOS) which is included in the scope of delivery. It serves to display, evaluate and permanently record the measured volumetric flow and air pressure values on a smartphone or tablet. Graphic evaluations, report functions, history monitoring as well as flexible exports (Excel, CSV, PDF) of the saved measurement data are easily possible via the app-controlled measurement data management.

NEW
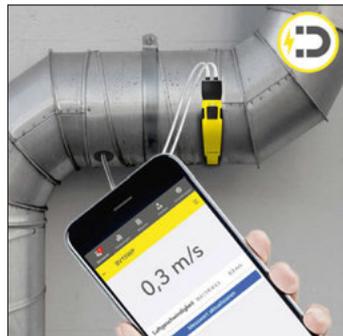
app Sensor®

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and easy measurement of differential pressure and air current
- High-quality sensor technology and numerous measuring functions
- Intelligent combination of appSensor and the MultiMeasure Mobile app
- Maximum or minimum value and hold function
- Logging function
- Chart representation of measurement data
- Report generation
- Average value determination
- Alarm function
- Automatic switch-off
- Magnetic holder to allow for hands-free working
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design protected design patent

1,5V AAA   3x

19 mbar

0,3 m/s

* Pitot tube available as an optional accessory

100%
TROTEC
DEVELOPMENT » DESIGN » PRODUCTION

Technical data

Article number		3.510.206.061
Pressure	Measuring range	0 hPa up to 150 hPa
	Accuracy	±0.05 hPa (0 - 1.00 hPa) ±0.2 hPa + 1.5% of the display value (1.00 - 150 hPa)
	Resolution	0.01 hPa
Air current	Measuring range	0 m/s to 50 m/s
	Accuracy	±5% of the display value @ 10.0 m/s
	Resolution	0.1 m/s
Functions		Battery status indication, Minimum value display, Maximum value display, Average value display, Measured value hold function, Automatic switch-off, Alarm function, Representation of measurement data as chart or table, Data export, Report generation function
Data interface		Bluetooth 4.0
Power supply		3 x 1.5 V, AAA
Dimensions		22 mm x 36 mm x 158 mm
Weight		120 g
Scope of delivery		Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories		Bag for WP-appSensors (3510206090), Pitot tube (3510206062)

BA06 Vane anemometer

Practical aid for air flow measurement

The compact BA06 mini anemometer is the perfect aid for uncomplicated air flow rate measurements in many areas.

The display can variably be switched over to many units: For instance, measure wind speeds in kilometres or miles per hour, the fan or ventilation system performance as well as the air flow rate of gases in metres per second or feet per minute.

Additionally, wind speeds can be displayed in nautical miles (knots) – which is why the BA06 is an ideal aid for all sport and leisure activities featuring wind: ideal for yachtsmen, surfers or hang-gliders!

Practical details not only for extensive sailing trips: The sensor-controlled display illumination of the BA06 is automatically activated in bad lighting conditions and the energy-saving magnet vane increases the anemometer's battery life.

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and easy flow rate measurement of wind, air or gases
- Display maximum and average value
- Easy one-hand operation
- Magnet vane
- Sensor-controlled display illumination in poor lighting conditions
- Automatic switch-off
- Integrated ¼ inch tripod thread
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.042
Air flow rate	Measuring range	1.1 m/s up to 30 m/s 3.96 km/h up to 108 km/h 216 ft/min up to 5,900 ft/min 2.46 mph up to 67 mph 2.13 kn up to 58 kn
	Accuracy	±(3 % + 0.3 m/s) ±(3 % + 1 km/h) ±(3 % + 40 ft/min) ±(3 % + 0.4 mph) ±(3 % + 0.4 kn)
	Resolution	0.01 m/s; 0.1 km/h; 1 ft/min; 0.1 mph; 0.1 kn
Functions		Maximum value display, m/s, km/h, ft/min, mph, kn, Average value display, Automatic switch-off, Sensor-controlled display illumination, ¼ inch tripod thread
Power supply		1 x 9 V block battery
Dimensions		167 mm x 34 mm x 56 mm
Weight		139 g
Scope of delivery		Measuring device, Battery(-ies), Bag/Holster, Operating manual
Optional accessories		Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BA16 Vane anemometer

Quick velocity measurement of wind, air or gases

> TROTEC

Measuring air velocity, air temperature and air volume flow poses no problem when using this flexible vane anemometer.

The mobile device is ready for immediate use and indicates the measured values easily legible on the large, back-lit display. If required, it is also possible to record the current measured value and to display the minimum and maximum values.

With its length of 40 centimetres the flexibly bendable gooseneck of the BA16 enables measuring even in poorly accessible locations or remote supply air openings and air outlets – ideal e.g. for sanitary, heating and ventilation engineers for the measuring at discharge grilles, canals and swirl diffusors.

The semi-professional BA16 is also excellently suited for amateur sportsmen to determine the wind strength or for efficiency control of household appliances such as air conditioning systems and cooling fans in data processing sectors.

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and easy measurement of air velocity, air temperature and air volume flow (CMM)
- Maximum, minimum value and hold function
- Semi-rigid gooseneck probe of 40 cm length
- Backlit display
- Soft-touch function keys
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.043
Air flow rate	Measuring range	1 m/s up to 30 m/s 3.6 km/h up to 108 km/h 196 ft/min up to 5,900 ft/min 2.2 mph up to 67 mph 1.9 kn up to 58 kn
	Accuracy	±(3 % + 0.2 m/s) ±(3 % + 0.8 km/h) ±(3 % + 40 ft/min) ±(3 % + 0.4 mph) ±(3 % + 0.4 kn)
	Resolution	0.01 m/s; 0.1 km/h; 1 ft/min; 0.1 mph; 0.1 kn
Volumetric flow	Measuring range	0 m³/min up to 999.9 m³/min (CMM)
	Resolution	0.1 m³/min (CMM)
Temperature	Measuring range	-10 °C up to 60 °C / 14 °F up to 140 °F
	Accuracy	±1.5 °C / ±3 °F
	Resolution	0.1 °C / 0.1 °F
Gooseneck probe		Length approx. 40 cm
Functions		Minimum value display, Maximum value display, Hold function, m/s, km/h, ft/min, mph, kn, m³/min (CMM), Switching function °C/°F, Automatic switch-off, Backlit display
Power supply		1 x 9 V block battery
Dimensions		165 mm x 32 mm x 54 mm
Weight		270 g
Scope of delivery		Measuring device, Battery(-ies), Storage case, Operating manual

9V E   1x

100% TROTEC
DEVELOPMENT » DESIGN » PRODUCTION

BA16WP Vane anemometer controlled via smartphone

Measuring air velocity, air temperature and air volume flow poses no problem when using this flexible vane anemometer. The appSensor is immediately ready for use and displays all measured values on the mobile terminal device.

The combined application of the appSensor and the appertaining, free MultiMeasure Mobile app comes with many valuable and practical advantages for the user in terms of flexibility, analysis functions, data control and documentation. This way, the parameters for relative humidity and air temperature, air flow rate or volumetric flow determined by the measuring device and transferred to the app can easily be converted into all major metric and imperial units.

Compare the determined data directly on your mobile terminal device or use the measured values for differentiated on-site analyses. Useful features such as the logging function, chart representation of the measurement data or their export to a secondary analysis software as well as the report generation function permit the BA16WP's universal application, e.g. for the efficiency control of household appliances such as air-conditioning and ventilation systems or cooling fans in data processing sectors. But the BA16WP is also excellently suited for amateur sportsmen to determine the wind strength.

A few practical benefits

- Development, design, production: 100 % Trotec

- Quick and easy measurement of air velocity, air temperature and air volume flow (CMM)

- High-quality sensor technology and numerous measuring functions

- Intelligent combination of appSensor and The MultiMeasure Mobile app

- Maximum, minimum value and hold function

- Logging function

- Chart representation of measurement data

- Report generation

- Average value determination

- Alarm function

- Automatic switch-off

- Magnetic holder to allow for hands-free working

- Variety of further measuring and analysis functions

- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.206.042
Air flow rate	Measuring range	0.6 m/s up to 30 m/s 2.2 km/h up to 108 km/h 118 ft/min up to 5,905 ft/min 1.3 mph up to 67 mph 1.2 kn up to 58 kn
	Accuracy	±(3.5 % + 0.2 m/s) ±(3.5 % + 0.7 km/h) ±(3.5 % + 39 ft/min) ±(3.5 % + 0.4 mph) ±(3.5 % + 0.4 kn)
	Resolution	0.1 m/s; 0.1 km/h; 1 ft/min; 0.1 mph; 0.1 kn
Temperature	Measuring range	-20 °C up to 60 °C / -4 °F up to 140 °F
	Accuracy	±0,8 °C (at < 0 °C) ±0,5 °C (at ≥ 0 °C)
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0 % RH up to 100 % RH
	Accuracy	±3.5 % RH (at 20 % up to 80 % RH) ±5 % RH (at 0 % up to 20 % and 80 % up to 100 % RH)
	Resolution	0.1 % RH
Functions		Battery status indication, Minimum value display, Maximum value display, Average value display, Hold function, Automatic switch-off, Indication in m/s, km/h, m³/min, ft/min, mph, kn, Alarm function, Representation of measurement data as chart or table, Data export, Report generation function
Data interface		Bluetooth 4.0
Power supply		3 x 1.5 V, AAA
Dimensions		22 mm x 43 mm x 158 mm
Weight		122 g
Scope of delivery		Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories		Bag for WP-appSensors (3510206090)

BA30WP Hot-wire anemometer controlled via smartphone

The BA30WP impresses with a high measurement sensitivity and hence particularly recommends itself for the precise determination even of low flow rates. Measuring air velocity, air temperature and air volume flow poses no problem when using this highly sensitive hot-wire anemometer.

The combined application of the appSensor and the appertaining, free MultiMeasure Mobile app comes with many valuable and practical usage advantages. This way, the parameters for relative humidity and air temperature, air flow rate or volumetric flow determined by the measuring device and transferred to the app can easily be converted into all major metric and imperial units.

Compare the determined data directly on your mobile terminal device or use the measured values for differentiated on-site analyses. The probe construction, steplessly adjustable in length, and useful features such as the logging function, chart representation of the measurement data or their export to a secondary analysis software as well as the report generation function permit the BA30WP's universal application, e.g. for the efficiency control of household appliances such as air-conditioning and ventilation systems or cooling fans in data processing sectors, and make it an ideal companion for flow rate measurements even at otherwise poorly accessible locations.

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and easy measurement of air velocity, air temperature and air volume flow (CMM)
- High-quality sensor technology and numerous measuring functions
- Intelligent combination of appSensor and The MultiMeasure Mobile app
- Maximum, minimum value and hold function
- Logging function
- Chart representation of measurement data
- Report generation
- Average value determination
- Extendable telescopic probe of 375 mm
- Alarm function
- Automatic switch-off
- Magnetic holder to allow for hands-free working
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design – protected design patent

1.5V AAA 3x

Technical data

Article number		3.510.206.043
Air flow rate	Measuring range	0 m/s up to 30 m/s 0 km/h up to 108 km/h 0 ft/min up to 5,900 ft/min 0 mph up to 67 mph 0 kn up to 58 kn
	Accuracy	±(5 % + 0.1 m/s) at < 5 m/s ±(5 % + 0.3 m/s) at ≥ 5 m/s
	Resolution	0.01 m/s; 0.1 km/h; 1 ft/min; 0.1 mph; 0.1 kn;
Temperature	Measuring range	-20 °C up to 60 °C / -4 °F up to 140 °F
	Accuracy	±0,8 °C (at -20 up to 0 °C) ±0,5 °C (at 0 up to 60 °C)
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0 % RH up to 99.9 % RH
	Accuracy	±3.5 % RH (at 20 % up to 80 % RH) ±5 % RH (at 0 % up to 20 % and 80 % up to 100 % RH)
	Resolution	0.1 % RH
Telescopic probe		Length approx. 170 mm to 375 mm
Functions		Battery status indication, Minimum value display, Maximum value display, Average value display, Hold function, Automatic switch-off, Extendable telescopic probe, Indication in m/s, km/h, m³/min, ft/min, mph, kn, Alarm function, Long-term measurement function, Representation of measurement data as chart or table, Data export, Report generation function
Data interface		Bluetooth 4.0
Power supply		3 x 1.5 V, AAA
Dimensions		22 mm x 36 mm x 320/555 mm
Weight		122 g
Scope of delivery		Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories		Bag for WP-appSensors (3510206090)

BC06 Thermohygrometer

Mobile climate measurement made easy

Whether for climate measurement in living, office, production or storage spaces, in laboratories, agriculture or at the florist's – owing to the combination of easy single-handed operation and precise measuring technology, the BC06 provides exact measured values of temperature and relative humidity of the ambient air in a matter of seconds.

Practical detail: Thanks to the dual measured value display, the minimum or maximum value of the current measurement can optionally be displayed on the automatically illuminated LCD display of the BC06 in addition to the current measured value.

This way, changes in the climate values can be easily determined in different areas.

Also the integrated dewpoint and measurment of wet-bulb temperature are further useful functions for control of biulding climate.

A few practical benefits

- Development, design, production: 100 % Trotec

- Measurement of diverse climate data with only one device: relative humidity, air temperature, dew point and wet-bulb temperature

- Dual display for parallel presentation of additional measured values

- Maximum, minimum value and hold function

- Easy one-hand operation

- Sensor-controlled display illumination in poor lighting conditions

- Automatic switch-off

- Integrated ¼ inch tripod thread

- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.005
Air temperature	Measuring range	-20 °C up to 60 °C / -4 °F up to 140 °F
	Accuracy	±2 °C / ±1.5 °F (at -20 °C up to 0 °C) ±1 °C / ±1.5 °F (at 0 °C up to 40 °C) ±2 °C / ±1.5 °F (at 40 °C up to 60 °C)
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0 % RH up to 100 % RH
	Accuracy	±3.5 % RH (at 20 % up to 80 % RH) ±5 % RH (at 0 % up to 20 % and 80 % up to 100 % RH)
	Resolution	0.1 % RH
Dew point temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Accuracy	±2 °C / ±3.6 °F
	Resolution	0.1 °C / 0.1 °F
Wet-bulb temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Accuracy	±2 °C / ±3.6 °F
	Resolution	0.1 °C / 0.1 °F
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Automatic switch-off, Sensor-controlled display illumination, ¼ inch tripod thread
Power supply		1 x 9 V block battery
Dimensions		146 mm x 34 mm x 56 mm
Weight		145 g
Scope of delivery		Measuring device, Battery(-ies), Bag/Holster, Operating manual
Optional accessories		Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BC21 Thermohygrometer

Accurate, pocket-sized climate measuring device

High-quality sensor technology and numerous measuring functions make the BC21 the ideal climate measuring device for workshop, hobby and household applications:

The relation of humidity and temperature is decisive for ideal climate conditions in living, work or storage spaces. Prevailing feel-good climate? Risk of mould growth or rust?

Due to the integrated dew point temperature measurement, all issues evolving around the building climate control can quickly and easily be investigated using the BC21.

With its impact-proof and rigid stainless steel probe the robust construction cuts a remarkably fine figure even in the rough everyday usage of ventilation and air-conditioning technicians – the additional function for measuring the wet-bulb temperature also enables a universal application of the BC21 in planning, measuring and performance control of air-conditioning and ventilation systems.

A few practical benefits

- Development, design, production: 100 % Trotec

- Measurement of diverse climate data with only one device: relative humidity, air temperature, dew point and wet-bulb temperature

- Dual display for parallel presentation of additional measured values

- Maximum, minimum value and hold function

- Rapid response time

- Soft-touch function keys

- Easy one-hand operation

- Backlit display

- Automatic switch-off

- Robust design

- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.006
Air temperature	Measuring range	-30 °C up to 100 °C / -22 °F up to 199 °F
	Accuracy	±1 °C / ±1.5 °F
	Resolution	0.01 °C / 0.01 °F
Humidity	Measuring range	0 % RH up to 100 % RH (Specified 5 % RH up to 95 % RH)
	Accuracy	±2 % RH at 25 °C and 5 % RH up to 95 % RH
	Resolution	0.01 % RH
Dew point temperature	Measuring range	-30 °C up to 100 °C / -22 °F up to 199 °F
	Accuracy	±1 °C / ±1.5 °F
	Resolution	0.01 °C / 0.01 °F
Wet-bulb temperature	Measuring range	0 °C up to 80 °C / 32 °F up to 176 °F
	Accuracy	±1 °C / ±1.5 °F
	Resolution	0.01 °C / 0.01 °F
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Automatic switch-off, Backlit display
Power supply		1 x 9 V block battery
Dimensions		225 mm x 32 mm x 54 mm
Weight		200 g
Scope of delivery		Measuring device, Battery(-ies), Storage case, Operating manual

BC21WP Thermohygrometer controlled via smartphone

High-quality sensor technology and numerous measuring functions make the BC21WP the ideal climate measuring device for workshop, hobby and household applications. Risk of mould growth or rust? The combined application of the appSensor and the appertaining, free MultiMeasure Mobile app comes with many valuable and practical advantages for the user in terms of flexibility, analysis functions, data control and documentation. This way, other important physical climate parameters such as dew point temperature, critical dew point, absolute or specific humidity can be calculated and displayed based on the data determined by the measuring device and transferred to the app. Normally, only substantially more expensive measuring devices can achieve that. Compare the determined data directly on your mobile terminal device or use the measured values for differentiated analyses.

Due to the real-time determination of all important climate parameters, all issues evolving around the building climate control can quickly and easily be investigated using the BC21WP. Useful features such as the logging function, chart representation of the measurement data or their export to a secondary analysis software as well as the report generation function permit the BC21WP's universal application, i.a. for the planning, measuring and performance control of air-conditioning and ventilation systems.

appSensor®

A few practical benefits

- Development, design, production: 100 % Trotec
- Measurement of diverse climate data with only one device: relative humidity, air temperature, dew point and wet-bulb temperature
- High-quality sensor technology and numerous measuring functions
- Intelligent combination of appSensor and The MultiMeasure Mobile app
- Maximum, minimum value and hold function
- Logging function
- Chart representation of measurement data
- Report generation
- Rapid response time
- Alarm function
- Automatic switch-off
- Magnetic holder to allow for hands-free working
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design – protected design patent

1.5V AAA 3x

Technical data

Article number		3.510.206.006
Air temperature	Measuring range	-20 °C up to 60 °C / -4 °F up to 140 °F
	Accuracy	±0,8 °C (at -20 °C up to 0 °C) ±0,5 °C (at 0 °C up to 60 °C)
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0 % RH up to 100 % RH (specified 5 % RH up to 95 % RH)
	Accuracy	±3.5 % RH (at 20 % up to 80 % RH) ±5 % RH (at 0 % up to 20 % RH) ±5 % RH (at 80 % up to 100 % RH)
	Resolution	0.1 % RH
Functions		Battery status indication, Minimum value display, Maximum value display, Average value display, Hold function, Automatic switch-off, Indication of dew point, critical dew point, absolute humidity [g/m³], specific humidity [g/kg], Alarm function, Long-term measurement function, Representation of measurement data as chart or table, Data export, Report generation function
Data interface		Bluetooth 4.0
Power supply		3 x 1.5 V, AAA
Dimensions		22 mm x 32 mm x 226 mm
Weight		180 g
Scope of delivery		Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories		Bag for WP-appSensors (3510206090)

BC25 Thermohygrometer

Climate measurements including 'heat index' and 'apparent temperature'

The BC25 is both effective and handy instrument for reliably determining a measure for the physical stress resulting from high temperatures in combination with high humidity levels. A high humidity level affects the thermal regulation of the body by evaporation of sweat. This way, the subjective well-being is considerably impaired and the risk of a heat stroke is objectively increased, particularly for sportsmen as well as sick and elderly people.

With its sensitive sensor system, the BC25 therefore not only determines common climate parameters such as the air temperature, relative humidity, dew point and wet-bulb temperature, but also the 'heat index' (HI) and the 'apparent temperature' (WBGT index). Both the heat index and the so-called wet-bulb globe temperature provide information on the apparent temperature based on the measured air temperature and in particular the relative humidity and other parameters such as the heat radiation.

Due to the alarm functions of the BC25 for heat index and apparent temperature, thermal damage can be avoided from the start and the limits of stress resistance at high temperatures can be set. The large and easily readable LCD display as well as the functions for automatic switch-off, minimum and maximum value, AVG and HOLD complete the range of features of this innovative measuring device.
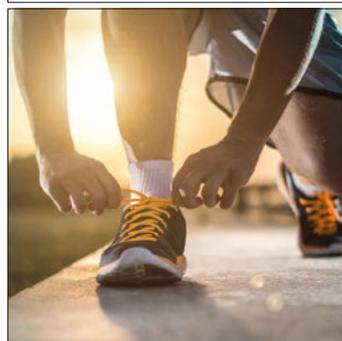
A few practical benefits

- Determination of climate parameters °C/°F, %RH, dew point, wet-bulb temperature, heat index (HI), apparent temperature (WBGT)
- Alarm function for heat index (HI) and apparent temperature (WBGT)
- Display of minimum, maximum and average values
- Large and easy-to-read LCD display
- Hold function
- Automatic switch-off

Technical data

Article number		3.510.205.008
Air temperature	Measuring range	-20 °C up to 50 °C / -4 °F up to 122 °F
	Accuracy	±0.6 °C
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0 % RH up to 99.9 % RH
	Accuracy	±3 % RH (at 10 % RH up to 90 % RH) ±5 % RH (at 0 % RH up to 10 % RH) ±5 % RH (at 90 % RH up to 99.9 % RH)
	Resolution	0.1 % RH
Functions		Heat index (HI), Perceived temperature (WBGT), Wet-bulb temperature, Switching function °C/°F, Minimum value display, Maximum value display, Average value display, Hold function, Alarm function for Heat Index (HI), Alarm function for wind chill temperature (WBGT), Automatic switch-off
Power supply		1 x 3 V, CR2032
Dimensions		142 mm x 20 mm x 36 mm
Weight		52 g
Scope of delivery		Measuring device, Battery(-ies), Operating manual

BZ05 Indoor thermohygrometer

Indoor climate station with feel-good indication

An optimum indoor climate is the fundamental prerequisite for the health and wellbeing of residents. The two decisive factors for "feel-good surroundings" – room temperature and relative humidity – are indicated in large digits by the BZ05 on the clearly legible LCD display along with time or date. Furthermore, recorded minimum and maximum values can be recalled at the BZ05.

Also convenient is the integrated feel-good indication: An indicator easily understandable shows, whether the room climate values range in a corridor optimal, acceptable or critical for human beings.

The timelessly elegant design, optional table installation or wall mounting and integrated alarm function make the BZ05 a multi-functional thermohygrometer for more than just living and bedrooms, workspaces, conservatories or basement hobby rooms.

A few practical benefits

- Simultaneous display of room temperature, humidity and time or date
- Additional feel-good indication
- Display of recorded minimum and maximum values
- Large display with easily legible measured value indication
- Alarm function
- Free standing or wall mounted

Technical data

Article number		3.510.205.010
Air temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Accuracy	±1 °C / ±1.8 °F
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	10 % RH up to 90 % RH
	Accuracy	±5 % RH
	Resolution	1 % RH
Functions		Minimum value display, Maximum value display, Switching function °C/°F, Feel-good indication, Date, Time, Alarm function
Power supply		1 x 1.5 V, AAA
Dimensions		108 mm x 15 mm x 60 mm
Weight		74 g
Scope of delivery		Measuring device, Battery(-ies), Operating manual

BZ06 Designer weather station

The 4-in-1 combination device indicates indoor climate values, weather forecast, time and date and has an additional alarm function. It comes in a stylish design with transparent display.

The thermohygrometer BZ06 in modern design provides information quickly at one glance. Indicated in large digits on the easily legible digital display are the current indoor temperature (in °C or °F), the humidity level (in %), the date, weekday and time. Moreover, the graphically represented weather forecast indicates coming weather changes.

A striking eyecatcher is the appealing and completely transparent display of this indoor climate monitoring station. The extensive functional range is completed by an alarm mode with convenient snooze button. You're free to put the device up wherever you like: the living room, kitchen, children's room, hobby room, bedroom, bathroom, shop, at work or you can take it along on a journey ... There will be no annoying ticking, all display functions are completely noiseless – except for the alarm signal, of course.

A suitable temperature and an optimally regulated humidity level are decisive factors for a healthy, agreeable room climate. Both too high and too low values have a negative impact on our well-being.
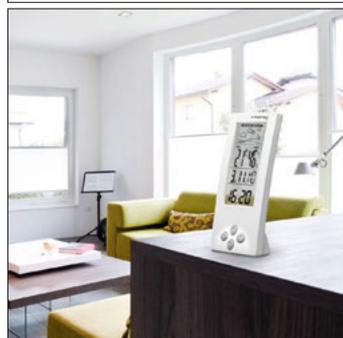
A few practical benefits

- Simultaneous indication of room temperature, humidity level, date, time, weekday and symbolic weather forecast
- Alarm function with snooze button
- Completely noiseless (except for the alarm function)
- Display of minimum and maximum values
- Large, transparent LC display with clear and easily legible measured value indication
- Compact table-top device in a modern, stylish design
- Supplies helpful information for preventing mould growth

Technical data

Article number		3.510.205.016
Air temperature	Measuring range	-9.9 °C up to 50 °C / 14 °F up to 122 °F
	Accuracy	±2 °C
	Resolution	1 °C / 1 °F
Humidity	Measuring range	20 % RH up to 95 % RH
	Accuracy	±8 % RH (at 35 % RH up to 75 % RH) ±10 % RH (at 20 % RH up to 34 % RH) ±10 % RH (at 76 % RH up to 95 % RH)
	Resolution	1 % RH
Functions		Minimum value display, Maximum value display, Weather forecast indication, Switching function °C/°F, Weekday, Date, Time, Alarm function
Power supply		1 x 1.5 V AAA
Dimensions		139 mm x 60 mm x 44 mm
Weight		81 g
Scope of delivery		Measuring device, Battery(-ies), Short operating instructions

BZ07 Weather station and indoor climate monitoring unit

The 6-in-1 combination device displays indoor climate values, weather forecast, 12-hour temperature statistics, feel-good indication, time and date and it comes equipped with a digital alarm clock.

Whether wall-mounted or positioned on its fold-out stand, at one glance the thermo-hygrometer BZ07 provides relevant information on the current room climate. Both the room temperature (in °C or °F) and the humidity level (in %) are indicated on the large, easily legible 5" LC display.

To make it extra convenient for you, a graphical feel-good indication with 3 symbols illustrates whether temperature and humidity are in the optimal feel-good range. That way, you don't have to interpret the exact measured values, instead you know right away whether everything is fine with your room climate.

Of particular interest for monitoring purposes is the bar graph indicator of the BZ07. With it you can easily track the temperature changes of the past 12 hours. As an additional service, the integrated weather forecast indication shows you the expected development of the weather in form of 4 symbols. The extensive functional range is completed by the indication of time or date and the alarm function with snooze button.

A few practical benefits

- Simultaneous indication of room temperature, humidity level, time or date, weather forecast, feel-good indication and temperature fluctuations

- Visualisation of the temperature changes spanning the past 12 hours

- Symbolic weather forecast indication

- Simplified feel-good indication

- Alarm function with snooze button

- Completely noiseless (except for the alarm function)

- Display of minimum and maximum values

- Large 5'' LC display with clear and easily legible measured value indication

- Compact wall-mounted or table-top device in a modern, stylish design

- Supplies helpful information for preventing mould growth

Technical data

Article number		3.510.205.017
Air temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Accuracy	±2 °C
	Resolution	0,1 °C / 1 °F
Humidity	Measuring range	20 % RH up to 99 % RH
	Accuracy	±8 % RH (at 35 % RH up to 75 % RH) ±10 % RH (at 20 % RH up to 34 % RH) ±10 % RH (at 76 % RH up to 95 % RH)
	Resolution	1 % RH
Functions		Minimum value display, Maximum value display, Weather forecast indication, Switching function °C/°F, Feel-good indication, Bargraph indicator display, Date, Time, Alarm function, Battery status indication
Power supply		2 x 1.5 V AAA
Dimensions		105 mm x 151 mm x 22 mm
Weight		173 g
Scope of delivery		Measuring device, Battery(-ies), Short operating instructions

BZ15C Thermohygrometer

Optimally illustrates the climate values in your classic car garage

Owing to the special scale design with climate-related colour indication the mechanical hygrometer provides just the right guidance for humidity level and room temperature in the garage. You can tell from one look whether the humidity really is in the green range. With this instant, unambiguous readability you have already taken the most important precaution for your classic car to prevent a loss in value.

The measurement accuracy of the BZ15C is ± 3 % RH in the range from 20 to 100 % RH. The thermohygrometer is equipped with a high-quality mechanical measurement technology "made in Germany" that guarantees high measurement accuracy without the need for maintenance. This mechanism is employed to measure the change in length of a specially pre-treated synthetic fibre that expands in humid conditions and contracts when it is dry. The length variation is converted into a rotary motion using levers and axes and visualized by means of a needle.

The device display can easily be calibrated and amended by way of a zero correction. Naturally, the BZ15C may also be mounted in your living area — it provides valuable assistance in monitoring the room climate for private collections of any kind.
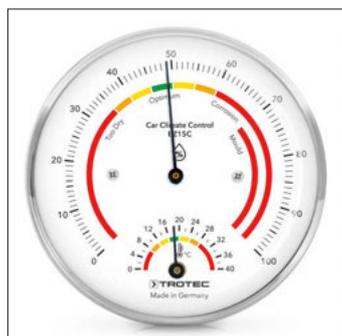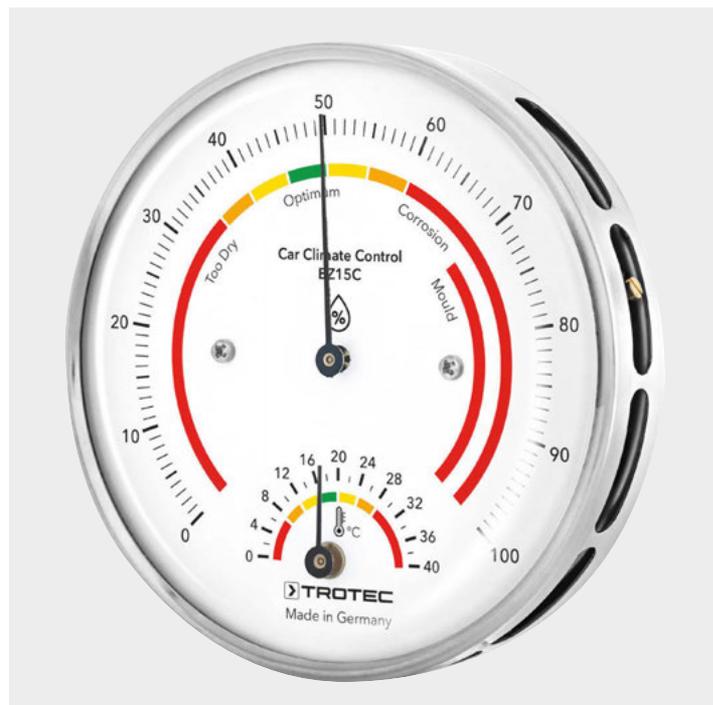
A few practical benefits

- High-quality mechanical measurement technology "made in Germany"
- Special scale design with climate-related colour indication
- Simple readability and interpretation
- Incl. calibration option

Technical data

Article number		3.510.205.011
Air temperature	Measuring range	0 °C up to 40 °C
	Accuracy	±2 °C
	Resolution	2 °C
Humidity	Measuring range	0 % RH up to 100 % RH
	Accuracy	±3 % RH (at 20 % RH up to 100 % RH)
	Resolution	1 % RH
Functions		Measurement of air temperature and relative humidity
Dimensions		103 mm x 24 mm
Weight		155 g
Scope of delivery		Device, Operating manual

BZ15M Thermohygrometer

For quickly controlling your healthy indoor climate

The indoor climate hygrometer BZ15M is easy to read and understand and indicates the ideal climate values in interior spaces depending on room temperature and season. The special scale design with colour gradient from bright to dark yellow serves to indicate both room temperature and relative humidity.

Moreover, the thermohygrometer is fitted with a convenient season-based ventilation recommendation — which, if strictly observed, can help prevent the harmful mould formation and growth in interior spaces. This makes the hygrometer BZ15M an ideal tool for quick and simple climate control in living spaces including living or bedrooms, offices, training or assembly rooms.

The thermohygrometer BZ15M is equipped with a high-quality mechanical measurement technology "made in Germany" that guarantees a high measurement accuracy of ± 3 % RH in the range from 20 to 100 % RH without the need for maintenance. This mechanism is employed to measure the change in length of a specially pre-treated synthetic fibre that expands in humid conditions and contracts when it is dry. The length variation is converted into a rotary motion using levers and axes and communicated by the needle. The display of the hygrometer can easily be calibrated and amended by way of a zero correction.
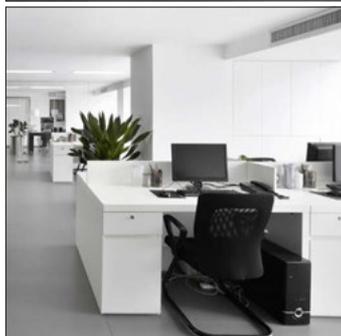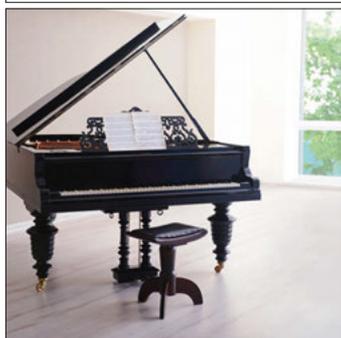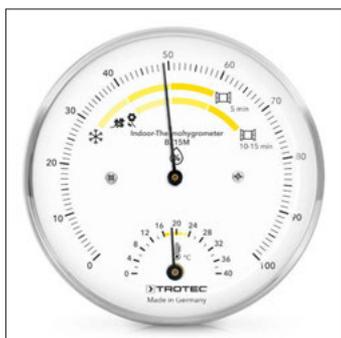
A few practical benefits

- High-quality mechanical measurement technology "made in Germany"

- Special scale design with season-dependent ventilation recommendation for optimum climate values

- Simple readability and interpretation

- Incl. calibration option

Technical data

Article number		3.510.205.012
Air temperature	Measuring range	0 °C up to 40 °C
	Accuracy	±2 °C
	Resolution	2 °C
Humidity	Measuring range	0 % RH up to 100 % RH
	Accuracy	±3 % RH (at 20 % RH up to 100 % RH)
	Resolution	1 % RH
Functions		Measurement of air temperature and relative humidity
Dimensions		103 mm x 24 mm
Weight		155 g
Scope of delivery		Device, Operating manual

BZ20M Thermohygrometer
Perfect climate control in cross-needle design

You'll find it hard to find a quicker and simpler way to control indoor climate values. And hardly a prettier solution, either – it is a treat for the eyes... The thermohygrometer BZ20M is surrounded by a high-end stainless steel housing. With a diameter of 130 mm and the special scale design it can be easily read even at a larger distance. The measuring device BZ20M is the first choice whenever an equally precise and quick check of a healthy indoor climate is required; such examples include office spaces, training and conference rooms or, more privately, living and bedrooms. The humidity measuring range of the hygrometer covers all values between 20 and 100 % RH with a measurement accuracy of ± 3 % RH.

The high quality mechanical measurement technology "made in Germany" speaks for itself, but it also says something for the thermohygrometer BZ20M: The mechanism is employed to measure the change in length of a specially pre-treated synthetic fibre that expands in humid conditions and contracts when it is dry. The length variation is converted into a rotary motion using levers and axes and visualized by means of a needle. The display of the maintenance-free hygrometer can easily be calibrated and amended by way of a zero correction. Another convincing argument for the reliability of the measuring device with cross-needle design is its bi-metal thermometer. The figures clearly speak in favour of the BZ20M as well: In the temperature measuring range between -10 and 40 °C it captures values with a measurement accuracy of merely ± 2 °C.
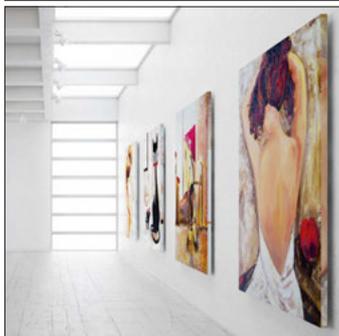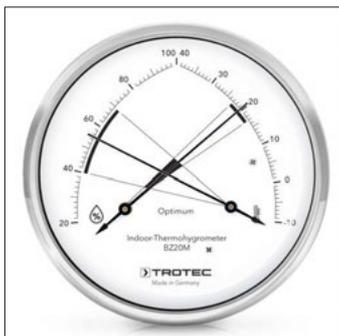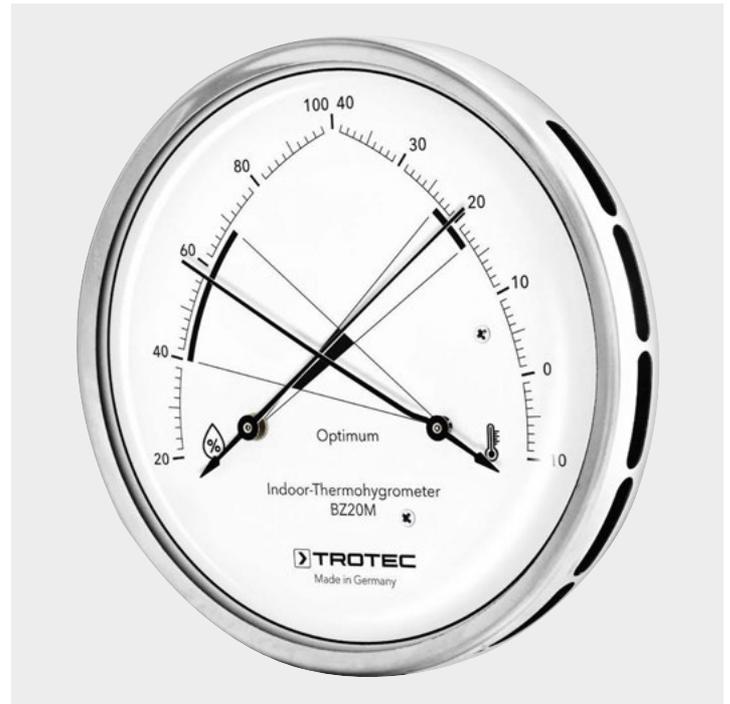
A few practical benefits

- High-quality mechanical measurement technology "made in Germany"
- Special cross-needle scale design
- Simple readability allowing a quick interpretation of the measured values
- Incl. calibration option

Technical data

Article number		3.510.205.013
Air temperature	Measuring range	-10 °C up to 40 °C
	Accuracy	±2 °C
	Resolution	1 °C
Humidity	Measuring range	20 % RH up to 100 % RH
	Accuracy	±3 % RH (at 20 % RH up to 100 % RH)
	Resolution	2 % RH
Functions		Measurement of air temperature and relative humidity
Dimensions		130 mm x 28 mm
Weight		185 g
Scope of delivery		Device, Operating manual

BZ21M Thermohygrometer

Perfect climate control with all the values of analogue precision measurement technology

From the indication of the room temperature and relative humidity to the display of absolute humidity and saturation humidity level: The thermohygrometer BZ21M easily combines four important climate parameters on just one dial that are required for controlling the room climate. The analogue measuring device convinces thanks to its high-quality stainless steel housing and precise measuring technology as well as its cross-needle scale design that is clearly legible even from afar. The BZ21M can be used as a wall-mounted device to keep the focus on the essentials in living rooms, bedrooms, sauna areas, offices and training rooms: Maintaining optimal room climate values provides an asset for your health, well-being and performance.

The measurement data is determined and regulated inside the device by means of a bi-metal thermometer and a specially treated synthetic fibre that expands in humid conditions and contracts when it is dry. The resulting length variation is converted into a rotary motion using levers and axes and visualized by means of the needles. If required, the display of the low-maintenance thermohygrometer can be readjusted by means of an integrated adjusting screw.

NEW

A few practical benefits

- Four climate values on one dial: Room temperature, relative humidity, absolute humidity and saturation humidity

- Analogue precision measurement technology "Made in Germany"

- Special cross-needle scale design

- Simple readability allowing a quick interpretation of the measured values

- Adjustment option included

Technical data

Article number		3.510.205.018
Air temperature	Measuring range	-10 °C up to 40 °C
	Accuracy	±2 °C
	Resolution	1 °C
Humidity	Measuring range	20 % RH up to 100 % RH
	Accuracy	±3 % RH (at 20 % RH up to 100 % RH)
	Resolution	2 % RH
Functions		Measurement of air temperature and relative humidity, Absolute humidity measurement, Saturation humidity measurement
Dimensions		130 mm x 28 mm
Weight		185 g
Scope of delivery		Device, Operating manual

BZ22M Thermohygrometer

Versatile climate control and mould prevention in a timelessly elegant form

Room temperature, relative humidity, saturation humidity and dew point temperature are important climate data that should be kept in mind with regard to a healthy indoor climate, especially when it comes to the prevention of mould formation in one's home. The analogue thermohygrometer BZ22M makes this particularly easy. The high-quality, wall-mounted thermohygrometer in a robust stainless steel housing (Ø 130 mm) is recommended in order to permanently monitor heating and ventilation conditions. The device allows for example to detect values fallen below the dew point and related problems such as condensation and mould formation at an early stage. This is the way to take appropriate countermeasures with targeted heating and ventilation in order to create a comfortable and healthy room climate in living rooms, bedrooms, storerooms, offices or garages. Even four measured values are displayed in an easy-to-understand way on the dial in cross-needle design to keep an optimal overview of the entire measuring range.

The measurement data is determined and regulated inside the device by means of a bi-metal thermometer and a specially treated synthetic fibre that expands in humid conditions and contracts when it is dry. The resulting length variation is converted into a rotary motion using levers and axes and visualized by means of the needles. If required, the display of the low-maintenance thermohygrometer can be readjusted by means of an integrated adjusting screw.

NEW

A few practical benefits

- Four climate values on one dial: Room temperature, relative humidity, saturation humidity and dew point temperature

- Analogue precision measurement technology "Made in Germany"

- Special cross-needle scale design

- Simple readability allowing a quick interpretation of the measured values

- Incl. calibration option

Technical data

Article number		3.510.205.019
Air temperature	Measuring range	-10 °C up to 40 °C
	Accuracy	±2 °C
	Resolution	1 °C
Humidity	Measuring range	20 % RH up to 100 % RH
	Accuracy	±3 % RH (at 20 % RH up to 100 % RH)
	Resolution	2 % RH
Functions		Measurement of air temperature and relative humidity, Dew point measurement, Saturation humidity measurement
Dimensions		130 mm x 28 mm
Weight		185 g
Scope of delivery		Device, Operating manual

BZ25 CO$_2$ Air quality monitor

Reliable measurement of the indoor air quality

We spend more than 90 % of our life indoors. Besides, with building structures growing closer and closer together, exhausting pollutants are increasingly impeded with noticeable consequences for the air quality. Increased concentrations of carbon dioxide – even when they are still within the permissible limit values – can not only lead to fatigue, lapse of concentration or performance loss, but further cause serious health problems especially for children or enfeebled persons.

Using the BZ25, the indoor air quality can reliably be monitored – the ideal air quality monitor for use in work, living or children's rooms, class rooms, kindergartens or office and production environments. Thanks to the accurate and permanently stable NDIR measurement method, the BZ25 in addition to air temperature and relative humidity also captures the current concentration of carbon dioxide in the room air and indicates these in steps of 1 ppm on the easily legible display.

Additionally, an individual CO$_2$ alarm limit value can be defined, which when exceeded is indicated by means of an acoustic warning signal. A practical additional function of the BZ25 is the CO$_2$ indicator with simple icon presentation of a good, normal or unfortunate concentration of carbon dioxide in the room air on the large LCD display, which further shows time and date.

A few practical benefits

- Accurate and permanently stable NDIR measurement of carbon dioxide concentrations in the room air

- Simultaneous display of CO$_2$ values, room temperature, humidity, date and time

- Minimum and maximum value function for CO$_2$, air temperature and humidity

- Carbon dioxide alarm function with acoustic alarm signal for freely definable limit values

- Additional symbolic CO$_2$ indicator display

- Large backlit display with easily legible measured value indication

- Free standing or wall mounted

Technical data

Article number		3.510.205.014
Sensor		NDIR sensor (nondispersive infrared)
Carbon dioxide	Measuring range	0 ppm up to 9,999 ppm CO$_2$
	Accuracy	±75 ppm or ±5 % of measured value
	Resolution	1 ppm
Temperature	Measuring range	-5 °C up to 50 °C / 23 °F up to 122 °F
	Accuracy	±1 °C / ±1.8 °F
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0.1 % RH up to 99.9 % RH
	Accuracy	±5 % RH
	Resolution	0.1 % RH
Measuring interval		2 s
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Backlit display, CO$_2$ acoustic alarm function, CO$_2$ sensor, Feel-good indication, Date, Time
Power supply		230 V power adapter
Dimensions		90 mm x 110 mm x 98 mm
Weight		190 g
Scope of delivery		Measuring device, Power adapter, Operating manual

POWER ADAPTER 230 /6V

BZ30 CO$_2$ Air quality data logger

For autonomous long-term recording of indoor air quality

This CO$_2$ air quality data logger is the ideal combination measuring device for architects, experts and every heating, ventilation and air conditioning engineer.

The BZ30 provides you with all functions and equipment features of the BZ25 and is further equipped with a large data memory for 50,000 measured values for the long-term recording of carbon dioxide concentrations, air temperature and humidity values in freely definable measuring intervals from 1 second to 12 hours.

The recorded data can be conveniently transferred to the connected PC via a fast USB connection and there analysed and logged using the analysis software included in the scope of delivery.

Owing to the integrated Li-Ion battery, the BZ30 is also suited for mobile application in addition to the stationary table installation.

The simultaneous recording of humidity and temperature values plus CO$_2$ concentrations offers property managers or landlords optimal possibilities to monitor the ventilation habits.

A few practical benefits

- Accurate and permanently stable NDIR measurement of carbon dioxide concentrations in the room air
- Simultaneous display of CO$_2$ values, room temperature, humidity, date and time
- Minimum and maximum value function for CO$_2$, air temperature and humidity
- Carbon dioxide alarm function with acoustic alarm signal for freely definable limit values
- Additional symbolic CO$_2$ indicator display
- Large backlit display with easily legible measured value indication
- Autonomous long-term recording of carbon dioxide concentration, room temperature and humidity
- Memory for 50,000 measured values
- Freely definable saving interval from 1 second to 12 hours
- USB interface for measuring data transfer
- Free standing or wall mounted
- PC analysis software

POWER ADAPTER 230 /6V

3.7 V BATTERY LI-ION 18500   1x

Technical data

Article number		3.510.205.015
Sensor		NDIR sensor (nondispersive infrared)
Carbon dioxide	Measuring range	0 ppm up to 9,999 ppm CO$_2$
	Accuracy	±75 ppm or ±5 % of measured value
	Resolution	1 ppm
Temperature	Measuring range	-5 °C up to 50 °C / 23 °F up to 122 °F
	Accuracy	±1 °C / ±1.8 °F
	Resolution	0.1 °C / 0.1 °F
Humidity	Measuring range	0.1 % RH up to 99.9 % RH
	Accuracy	±5 % RH
	Resolution	0.1 % RH
Measuring interval		2 s
Functions		Minimum value display, Maximum value display, Hold function, Switching function °C/°F, Backlit display, CO$_2$ acoustic alarm function, CO$_2$ sensor, Feel-good indication, Date, Time
Additional functions		Freely selectable measuring cycle from 1 second to 12 hours, Continuous or ring recording max. 50,000 measured values
PC interface		USB
Power supply		1x 3.7 V, Li-Ion battery or 230 V power adapter
Dimensions		90 mm x 110 mm x 98 mm
Weight		245 g
Scope of delivery		Measuring device, Battery(-ies), Power adapter, USB connection cable, CD-ROM with Smartgraph PC software, Operating manual

BL30 Climate data logger

Simple and exact long-term recording of environmental data

The BL30 is an ultra-compact climate data logger for the long-term recording of air temperature and relative humidity in living, work or storage spaces. For stationary use a lockable wall mount is included in the scope of delivery.

The combination of large memory for 32,000 measured values, a freely adjustable saving interval ranging from 1 second to 24 hours per recording and the alarm function with logging of freely definable upper and lower alarm limits allows innumerable possible applications of the BL30 – e.g. as mandatory test verification for craftsmen, for the cause assessment of damages caused by moisture or mould in rental flats or for the documentation of consistent climate data in archives and storage facilities.

The supplied PC analysis software comes with evaluation and documentation functions for all measured values including time and date as well as alarm incidents.

Since the BL30 is exclusively configured via PC, a manipulation of the configuration by unauthorized persons directly at the measuring device is impossible. Depending on recording interval and surrounding conditions, the durable battery of the BL30 enables autonomous readiness for use over a period of several months.

A few practical benefits

- Autonomous long-term recording of climate data
- Memory for 32,000 measured values
- Freely definable saving interval from 1 second to 24 hours
- Alarm function
- Indication of minimum and maximum values incl. date and time
- USB interface for measuring data transfer
- PC analysis software
- Wall bracket with lockable combination lock
- Battery status indication

Technical data

Article number		3.510.205.520
Air temperature	Measuring range	-40 °C up to 70 °C / -40 °F up to 158 °F
	Accuracy	±2 °C
	Resolution	0.1 °C
Humidity	Measuring range	0 % RH up to 100 % RH
	Accuracy	±3.5 % RH
	Resolution	0.1 % RH
Functions		Minimum value display, Maximum value display, Switching function °C/°F, Alarm function, Date, Time, Freely selectable saving interval from 1 second to 24 hours, Continuous or ring recording max. 32,000 measured values (16,000 each for temperature and humidity)
Power supply		1 x 3.6 V Li-SOCL$_2$, 14250
Dimensions		94 mm x 32 mm x 50 mm
Weight		91 g
Scope of delivery		Measuring device, Battery(-ies), Bag/Holster, USB connection cable, CD-ROM with Smartgraph PC software, Lockable wall holder, Operating manual

BG20 Carbon monoxide measuring device

For quick checking of CO concentrations

With the BG20, the exact CO content in the ambient air can be detected and so one can e.g. ensure the adherence to applicable limit values at the workplace.

The hand-held measuring device is ready for operation a few seconds after switch-on and quickly and reliably captures CO concentrations ranging from 0 to 1,000 ppm.

The values are determined accurately to ± 10 ppm and indicated clearly legible on the large, backlit display. If required, ten measured values can further be stored directly in the BG20.

Practical alarm function with acoustic warning signal. Thanks to the integrated alarm function, it is also very simple and convenient to quickly check critical values: In case of values above 35 ppm, the measuring device automatically alerts the user by means of an acoustic signal, whose interval shortens with increasing values and from 200 ppm is emitted as a constant warning signal.

Thanks to the automatic switch-off after 15 minutes of inactivity, unintentionally flat batteries have become a thing of the past. The clearly structured function keys allow convenient single-handed operation.

A few practical benefits

- Quick and reliable measurement of CO concentrations in the ambient air
- Measuring range 0 ppm to 1,000 ppm
- Maximum value and hold function
- Adjustable alarm limit values
- Easy one-hand operation
- Backlit display
- Memory for ten measured values
- Automatic switch-off

Technical data

Article number	3.510.205.060
Measuring range	0 ppm up to 1,000 ppm
Accuracy	±5 % or ±10 ppm
Resolution	1 ppm
Sensor	Stabilised electrochemical gas-specific (CO)
Warm-up time	< 20 s
Operating conditions	0 °C up to 50 °C 0 % RH up to 99 % RH (Non-condensing)
Functions	Maximum value display, Hold function, Automatic switch-off, Backlit display, Acoustic alarm function, Visual alarm function, Memory for ten measured values
Power supply	1 x 9 V block battery
Dimensions	160 mm x 40 mm x 56 mm
Weight	180 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Operating manual

BG30 Gas detector

Quick and easy detection of gas leaks

Whether at home, on the camping site or boat, wherever combustible gas is stored or used, this gas detector is a must-have. Play it safe and regularly check your camping gas cartridges, LPG containers or gas soldering irons for tightness.

Also in commercial use the BG30 is a versatile measuring device for the detection of gas leaks on pipelines or fittings.

An acoustic alarm signal by means of increasing frequency and volume indicates the intensity and origin of the emerging gas. To avoid noise interferences, external headphones can be connected to the device.

With 10 % LEL the BG30 is more sensitive than the alarm threshold stipulated in many standards or regulations. LEL stands for lower explosive limit and defines the minimum concentration of gas on the air, that enables an explosion.

The BG30 reliably detects natural gas, methane, ethane, propane, butane, acetone, alcohol, ammonia, petrol, LPG, turbine fuel, hydrogen sulphide, industrial solvents, paint thinners and other combustible gases.

A few practical benefits

- Gas warning device and gas detector in one device
- Visual and acoustic alarm
- Alarm frequency in relation to gas concentration
- Individual calibration thanks to stepless sensitivity controller
- Easy one-hand operation
- Semi-rigid gooseneck probe of 40 cm length for the examination of poorly accessible locations

Technical data

Article number	3.510.205.064
Accuracy	50 ppm
Standard calibration	Methane
Alarm threshold	10 % LEL
Max. alarm level	40 % LEL
Warm-up time	Approx. 60 s
Response time	< 2 s (up to 40 % LEL)
Operating conditions	0 °C up to 50 °C 10 % RH up to 90 % RH (Non-condensing)
Gooseneck probe	Length approx. 40 cm
Functions	Visual alarm function, Acoustic alarm function (alarm frequency in relation to gas concentration), Gooseneck probe (40 cm), Individual calibration thanks to stepless intensity controller, Headphone connection
Power supply	3 x 1.5 V, C
Dimensions	221 mm x 24 mm x 72 mm
Weight	520 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Operating manual

BG40 Gas detector

Highly sensitive, quick-response detection of even the smallest gas leaks

In the private or commercial sector, storing and using combustible gases such as natural gas, methane, ethane and propane ranks among the everyday risks not to be underestimated. On these grounds, you should regularly inspect gas cartridges and LPG containers at your home or on your boat as well as gas pipelines and fittings for leakage by use of a gas detector – like the BG40.

Owing to its high sensitivity, the compact hand-held measuring device BG40 registers even the smallest of gas leaks in less than two seconds – and with a sensitivity level of <10 ppm it alerts you even to minor gas concentrations via a visual and acoustic alarm signal topped off with a vibration alert. With increasing frequency the acoustic alarm signal indicates a growing intensity of the escaping gas.

A flexible gooseneck probe of 40 cm (15.75") length permits the detection and identification of a leak in poorly accessible and confined spaces. The gas detector comes equipped with a backlit LCD display on which the measured ppm values can be read at any time quickly and easily even in unfavourable lighting conditions. Also indicated is the lower explosive limit in % (often abbreviated as LEL); it defines the minimum gas concentration in the air at which an explosion is possible.

A few practical benefits

- Gas warning device and gas detector in one device
- Visual and acoustic alarm signal as well as vibration alert
- Alarm frequency in relation to gas concentration
- Large, easy-to-read display with additional indicator
- Easy one-hand operation
- Semi-rigid gooseneck probe of 40 cm length for the examination of poorly accessible locations
- Backlit LCD display
- Soft-touch function keys
- Automatic switch-off
- Battery status indication
- Integrated ¼ inch tripod thread

Technical data

Article number	3.510.205.068
Accuracy	50 ppm
Standard calibration	Methane
Alarm threshold	x10: 0 up to 100 ppm, 100 up to 400 ppm, 400 up to 700 ppm, 700 up to 1,000 ppm, x100: 0 up to 1,000 ppm, 1,000 up to 4,000 ppm, 4,000 up to 7,000 ppm, 7,000 up to 10,000 ppm
Max. alarm level	x10: >1,000, x100: >10,000
Warm-up time	approx. 40 s
Response time	2 s
Operating conditions	0 °C up to 40 °C 10 % RH up to 85 % RH (Non-condensing)
Gooseneck probe	Length approx. 40 cm
Functions	Visual alarm function, Acoustic alarm function (alarm frequency in relation to gas concentration), Vibrating alert, Auto-Zero function, Automatic switch-off, Backlit display, Gooseneck probe (40 cm), ¼ inch tripod thread, Battery status indication
Power supply	1 x 3.7 V Li-Ion battery integrated
Dimensions	45 mm x 60 mm x 220 mm
Weight	428 g
Scope of delivery	Measuring device, Charger, Bag/Holster, Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BQ16 HCHO/TVOC measuring device

Precise detection of formaldehyde and VOC concentrations for air quality assessments

Whether at home, at the office or workplace, in public institutions, schools and kindergartens — wherever people stay indoors for any length of time, clean, uncontaminated air is a health-preserving necessity.Unfortunately, one cannot judge the atmospheric pollution at a glance, but at least measure it: using the HCHO/TVOC measuring device BQ16 from Trotec. Formaldehyde (HCHO) and volatile organic compounds (VOC) are certainly the most common and the most dangerous substance groups with regard to indoor air exposure.

For this reason both concentrations can be measured simultaneously in real time using the BQ16 to ensure that the room air pollution is harmless. The BQ16 detects even minor concentrations of as low as 0.01 ppm or 0.01 mg/m³.

Thanks to the integrated MIN, MAX and HOLD functions you can view the minimum or maximum value at any time during the measurement and even hold the currently measured value if needed. For battery-saving operation this practical measuring device is further equipped with an automatic switch-off function.
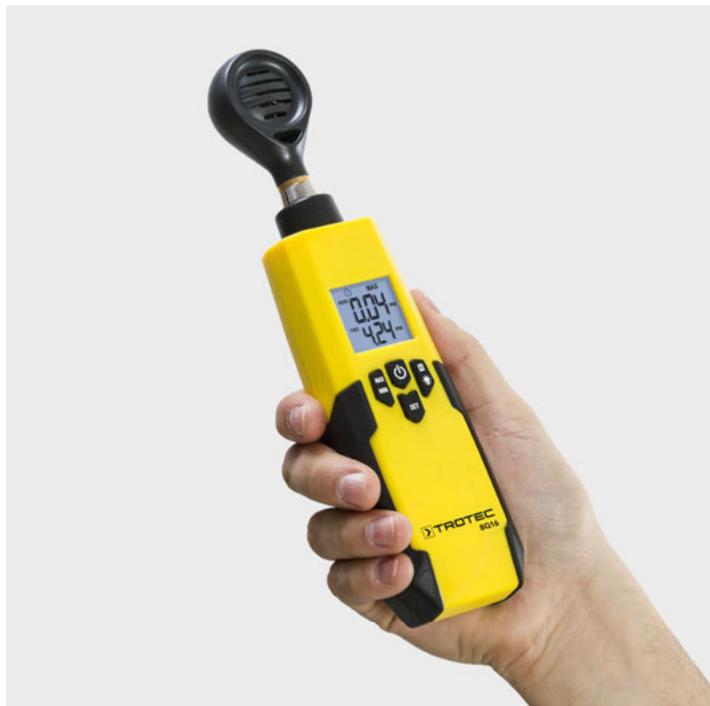
A few practical benefits

- Development, design, production: 100 % Trotec
- Compact air quality measuring device for the detection of formaldehyde and VOC concentrations in the room air
- Determination of measured values in ppm or mg/m³
- Dual real-value display for HCHO and TVOC
- Maximum, minimum value and hold function
- Backlit display
- Soft-touch function keys
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.090
Formaldehyd	Measure range	0 ppm up to 5 ppm / 0 mg/m³ up to 5 mg/m³
	Accuracy	± 5 % FS*
	Resolution	0.01 ppm / 0.01 mg/m³
TVOC	Measure range	0 ppm up to 9.99 ppm / 0 mg/m³ up to 9.99 mg/m³
	Accuracy	± 10 % FS*
	Resolution	0.01 ppm / 0.01 mg/m³
Functions		Minimum value display, Maximum value display, Real-time measured value display, Hold function, Automatic switch-off, Back-lit display, Battery status indication
Power supply		1 x 9 V block battery
Dimensions		35 mm x 55 mm x 230 mm
Weight		205 g
Scope of delivery		Measuring device, Battery(-ies), Storage case, Operating manual

* FS = Full Scale

BQ21 Particle measuring device

Compact environmental measuring device for the detection of fine dust, air temperature and humidity

> TROTEC

In the BQ21 you have a compact and easy-to-handle environmental measuring device permitting the detection of all health-relevant room climate parameters with just one device: air temperature, humidity and – above all – the dust concentration in the room air: The BQ21 simultaneously captures quantitative concentrations of airborne inhalable dust (PM10) and alveolar dust (PM2.5) the particle masses of which are displayed directly as mass proportion in µg per m² of air. Moreover, a colour bar indicates the current particle burden.

Furthermore, you can define individual threshold values on the device. When exceeded, you are immediately alerted by way of an acoustic signal. This is a particularly valuable function when using the BQ21 for the continuous monitoring of interior spaces. For such permanent applications the power for the otherwise battery-operated, mobile BQ21 may be supplied directly via USB cable.

The combination of measurable environmental parameters that is unique for this device class commends the BQ21 as an indispensable aid for the quick monitoring of the air quality at the workplace, in public facilities or at home.

NEW

MultiMeasure Mobile ready

A few practical benefits

- Development, design, production: 100 % Trotec
- Compact environmental measuring device for the detection of particulate matter pollution and climate data
- 2'' colour display for simultaneous indication of all measured parameters
- Memory space for up to 5,000 data sets
- Direct conversion and display of the concentrations of inhalable and alveolar dust fractions contained in the room air stated in µg per m³ of air
- Additional colour indicator display with automatic acoustic alarm for the quick detection of critical particle concentrations
- Maximum or minimum value and hold function
- Logging function
- Chart representation of measurement data
- Report generation
- Average value determination
- Alarm function
- Compatible with the MultiMeasure Mobile App
- Variety of further measuring and analysis functions
- Battery status indication
- Automatic switch-off
- Integrated tripod connection and stand
- Practice-optimized German industrial design – protected design patent

7.2V BATTERY LI-ION
1x

Technical data

Article number		3.510.205.095
Particles	Channels	2
	Duct sizes	2.5 µm, 10 µm
	Measure range	0.00 µg/m³ up to 2,000 µg/m³
	Resolution	1 µg/m³
Air temperature	Measuring range	0 °C up to 50 °C / 32 °F up to 122 °F
	Resolution	0.1 °C / 0.1 °F
Humidity	Measure range	0 % RH up to 100 % RH
	Resolution	0.1 % RH
Functions		Simultaneous measurement PM2.5 and PM10, Bar graph indicator, Switching function °C/°F, Memory for 5,000 measured values, Bluetooth interface, Automatic switch-off, Time, Battery status indication, ¼ inch tripod thread, Integrated foot
Power supply		1 x 7.2 V Li-ion battery integrated
Dimensions		188 mm x 35 mm x 52 mm
Weight		175 g
Scope of delivery		Measuring device, Li-ion battery (integrated), Wire stand, Mini USB cable, Charger (USB 5 V, 1 A), Getting started guide
Optional accessories		Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

100% TROTEC · DEVELOPMENT » DESIGN » PRODUCTION

BQ31 Long-term air quality monitor

Air quality monitor for checking the fine particulate and CO_2 burden as well as the air temperature and humidity level

The compact, long-term air quality monitor BQ31 allows you to simultaneously detect both critical fine particulate concentrations and CO_2 emissions in the air in a reliable and precise way. Additionally, the convenient all-round measuring device also measures the air temperature and humidity level. Home and industry dust, soot and pollen – the user-friendly mobile air quality monitor detects and quantifies the mass concentrations of various fine particulates. For this purpose, the measuring device's laser technology easily captures even the smallest air contaminations of sizes PM2.5 and PM10 in micrograms per cubic metre. Thanks to the adjustable time intervals, the BQ31 also allows for effective long-term control of the particle burden. Up to 5,000 data records can be saved, including both the PM concentrations and the date of detection.

If desired, this large variety of data can be conveniently displayed as curve characteristics on the large 3" colour display. With respect to the mass concentration of particle size PM2.5 you can define limit values preset in the BQ31 which, when exceeded, trigger an acoustic alarm signal. Additionally, a six-level colour display indicating the respective alarm levels helps you to quickly assess the current state of the particle concentration ranging between good and highly critical.

NEW

3,7 V BATTERY
LI-PO
2,400 mAh

1 x

A few practical benefits

- Development, design, production: 100 % Trotec
- Long-term air quality monitor for simultaneous detection of particle mass concentration in the air
- Measurement of fine particulates with a max. diameter of PM2.5 and PM10
- 3'' colour display for simultaneous indication of all measured parameters
- Indication of CO_2 pollution, current room temperature and humidity level
- Memory space for up to 5,000 data sets
- Bar graph indicator
- Additional colour indicator display with automatic acoustic alarm for the quick detection of critical particle concentrations
- Automatic switch-off
- Battery and mains operation possible
- Adjustable display brightness
- Automatically alternating indication of all measured climate parameters
- Compatible with the MultiMeasure Mobile App
- Variety of further measuring and analysis functions
- Date and time indication
- Choice of 8 languages
- Battery status indication
- Practice-optimized German industrial design – protected design patent

Technical data

Article number		3.510.205.099
Particles	Channels	2
	Duct sizes	2.5 µm, 10 µm
	Measure range	0.00 µg/m³ up to 2,000 µg/m³
	Resolution	1 µg/m³
CO_2	Measuring range	0 ppm up to 9,999 ppm
	Resolution	1 ppm
Air temperature	Measuring range	0 °C up to 70 °C / -4 °F up to 158 °F
	Resolution	0.1 °C / 0.1 °F
Humidity	Measure range	0 % RH up to 100 % RH
	Resolution	0.1 % RH
Functions		Automatically alternating indication of all measured climate parameters, Simultaneous measurement PM2.5 and PM10, Measurement of temperature, relative humidity, CO_2, configurable measuring rate, optional XY-diagram, Visual alarm function, Acoustic alarm function, Memory for 5,000 measured values, Bluetooth interface, Bar graph indicator, Date, Time, Adjustable display brightness, Automatic switch-off, Battery status indication
Power supply		1 x 3.7 V Li-Po battery
Dimensions		85 mm x 75 mm x 155 mm
Weight		360 g
Scope of delivery		Measuring device, Lithium polymer battery, Mini USB cable, Charger (USB 5 V, 1 A), Operating manual

BR16 Microwave radiation measuring device

Reliable detection of harmful microwave radiation

TROTEC

Whether leaky microwave, WLAN router, mobile phone or transmitter mast – Using the BR16 you can detect microwave emissions from all high-frequency devices functioning on 2.45 GHz ISM band.

The detected microwave emissions appear as a digital value on the easily legible display of the BR16.

If the determined value exceeds the ICNIRP maximum limit value of 5 mW/cm², the BR16 automatically alerts the user by means of an acoustic warning signal and additional warning indication on the display.

Facts worth knowing about EMF radiation: When setting limit values in the high-frequency range, most countries in the world are guided by the recommendations of the International Commission on Non-Ionizing Radiation Protection (ICNIRP). The current ICNIRP limit value recommendations vary depending on the case of application and range from 0.2 to 5 mW/cm². Values exceeding a limit value of 5 mW/cm² are unanimously rated as harmful to health.

NEW

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and easy radiation measurement in 2.45 GHz band
- Maximum value and hold function
- Automatic visual and acoustic alarm signal generator when exceeding limit values
- Backlit display
- Soft-touch function keys
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

9 V E
1 x

Technical data

Article number	3.510.205.071
Measuring range	0 - 9.99 mW/cm²
Accuracy	±1 dB
Resolution	0.01 mW/cm²
Alarm limit value	5.0 mW/cm²
Frequency range	Calibrated to 2.45 GHz
Operating conditions	0 °C up to 50 °C 10 % RH up to 80 % RH (Non-condensing)
Functions	Maximum value display, Measured value hold function, Automatic switch-off, Backlit display, Acoustic alarm function, Visual alarm function
Power supply	1 x 9 V block battery
Dimensions	160 mm x 42 mm x 60 mm
Weight	150 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

100% TROTEC DEVELOPMENT » DESIGN » PRODUCTION

BF06 Luxmeter

Universal light metering made easy

Precise light metering is not necessarily an extravagance: This compact mini luxmeter enables precise indoor and outdoor photometries.

The BF06's detector meets the requirements of the ISO accepted international commission on illumination (CIE) – due to the integrated spectral filter of the BF06 the infrared radiation is reliably filtered, so that only the relevant light spectrum is captured.

A successful combination of reliable measuring technology, ergonomic design and unbeatable price-performance-ratio makes the BF06 a universal photometer for manifold fields of application:

For instance use the BF06 for photometry at work or at home, as aid in window dressing, exhibition stand construction or the perfect illumination of film or photo sets – and not least to measure the incidence of light for planting work in parks, conservatories or your own garden. Moreover, the BF06 is a useful planning tool for architects or for the efficiency control if indoor and outdoor lighting equipment.

A few practical benefits

- Development, design, production: 100 % Trotec
- Measurement of illuminance and incidence of light
- Large, clearly legible measurement value display
- Maximum value function
- Easy one-hand operation
- Sensor-controlled display illumination in poor lighting conditions
- Automatic switch-off
- Integrated ¼ inch tripod thread
- Practice-optimized German industrial design – protected design patent

Technical data

| Article number	3.510.205.081
Light detector	Durable silicone photodiode with infrared filter
Measuring range	0 lx up to 40,000 lx / 0 fc up to 3,716 fc
Accuracy	±5 % ±10 lx/fc (< 10,000 lx / 1,000 fc) ±10 % ±10 lx/fc (> 10,000 lx / 1,000 fc)
Resolution	0.1 lx / 0.01 fc
Measuring rate	2.5 x per second, nominal
Functions	Maximum value display, Switching function lx/fc, Automatic switch-off, Sensor-controlled display illumination, ¼ inch tripod thread
Power supply	1 x 9 V block battery
Dimensions	157 mm x 34 mm x 56 mm
Weight	138 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BF06WP Luxmeter
controlled via smartphone

There are many good reasons to measure and evaluate the indoor and outdoor illumination intensity with the compact appSensor BF06WP. In addition to its easy operation, the luxmeter is compatible with 4.0 Bluetooth and convinces with a variety of options for data analysis. This is made possible by means of the MultiMeasure Mobile App (Android and iOS) included in the scope of delivery, which transforms the appSensor and the connected smartphone or tablet into a complete professional measuring system. Graphic evaluations, report functions, history monitoring as well as flexible exports (Excel, CSV, PDF) of the saved measurement data is all possible via the app-controlled measurement data management.

Natural, but also artificial light is the engine of our modern life. The illumination intensity influences our performance at work, our ability to concentrate when working from home and our well-being at home in our spare time. Artificial light also allows for a better growth of plants in greenhouses, provides for outstanding pictures in the photography sector and perfectly presents creations in exhibitions and museums. Provided the light intensity is right. To perform quick spot measurements in the lighting conditions described above or other, the Luxmeter BF06WP with MultiMeasure App is recommended to determine the illumination intensity in the measuring range of 0 to 40,000 lx (0 to 3,716 fc) within seconds and adjust it if necessary.
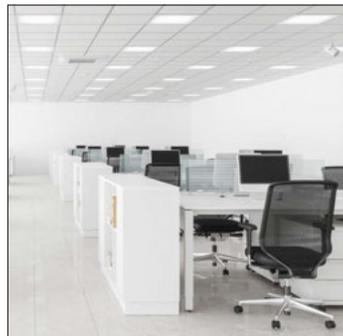
NEW

A few practical benefits

- Development, design, production: 100 % Trotec
- Measurement of illuminance and incidence of light
- High-quality sensor technology and numerous measuring functions
- Intelligent combination of appSensor and the MultiMeasure Mobile app
- Maximum or minimum value and hold function
- Logging function
- Chart representation of measurement data
- Report generation
- Average value determination
- Alarm function
- Magnetic holder to allow for hands-free working
- Practice-optimized German industrial design – protected design patent

1.5V AAA

3x

Technical data

Article number	3.510.205.085
Light detector	Durable silicone photodiode with infrared filter
Measuring range	0 lx up to 40.000 lx (0 fc up to 3.716 fc)
Accuracy	±4 % ±10 lx/fc (< 10.000 lx / 1.000 fc) ±10 % ±10 lx/fc (> 10.000 lx / 1.000 fc)
Resolution	0.1 (<200 LUX) 1 (<2000 LUX) 10 (<20000 LUX) 100 (<40000 LUX)
Measurement rate	1 x per second, nominal
Functions	LED connection indicator, Connection to Trotec MultiMeasure App, Battery warning, Automatic switch-off, Can be remote-controlled via Trotec MultiMeasure, Minimum value display, Maximum value display, Average value display, Measured value hold function, Alarm function
Data interface	Bluetooth 4.0
Power supply	3 x 1,5 V, AAA
Dimensions	22 mm x 36 mm x 155 mm
Weight	100 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual
Optional accessories	Bag for WP-appSensors (3510206090)

100%

BS06 Sound level measuring device

For the environment, workplace and leisure time

With the BS06 the sound level of different sources of noise can reliably be detected within a measuring range from 40 to 130 dB(A). Moreover, minimum and maximum values can be displayed.

For use in draughty outdoor environments an additional plug-on wind shield is included in the scope of delivery, which suppresses disturbing wind noise but simultaneously does not impair the sound level measurement. An integrated sensor further permanently monitors the ambient light and in case of poor lighting conditions automatically switches on the display illumination.

Diverse application possibilities: Owing to the successful combination of innovative equipment, ergonomic design and unbeatable value-for-money ratio, this precision instrument is suited for manifold fields of application, e.g. for noise measurements in the office, leisure time, machine controls, in the private living environment, on building sites, in the disco and much more.

The BS06 can also be used for quality inspections in the building trade, e.g. to detect sources of noise or badly done insulation. Often disturbing noise is transferred via the ventilation system or other supply shafts.

A few practical benefits

- Development, design, production 100 % Trotec
- Quick and reliable sound level measurements
- Maximum, minimum value and hold function
- Sensor-controlled display illumination in poor lighting conditions
- Easy one-hand operation
- Rapid response times
- Automatic switch-off
- Integrated ¼ inch tripod thread
- Practice-optimized German industrial design – protected design patent

Technical data

Article number	3.510.205.051
Measuring range	40 dB(A) up to 130 dB(A) (31.5 Hz - 8 kHz)
Accuracy	±3.5 dB (at 1 kHz and 94 dB)
Resolution	0.1 dB
Response time	0.125 s
Operating conditions	0 °C up to 40 °C 10 % RH up to 75 % RH
Functions	Minimum value display, Maximum value display, Hold function, Automatic switch-off, Sensor-controlled display illumination, ¼ inch tripod thread
Power supply	1 x 9 V block battery
Dimensions	140 mm x 34 mm x 56 mm
Weight	135 g
Scope of delivery	Measuring device, Battery(-ies), Bag/ Holster, Wind shield, Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BS30WP Sound level measuring device controlled via smartphone

The BS30WP impresses with a high measurement sensitivity and hence particularly recommends itself for the precise determination even of low sound levels starting at 35 and ranging up to 130 dB(A).

The combined application of the appSensor and the appertaining, free MultiMeasure Mobile app comes with many valuable and practical usage advantages. You can for instance easily calculate and display minimum, maximum and average values for the sound levels determined by the measuring device and transferred to the app. Also you can set individual limit values; exceeding or falling below these thresholds automatically triggers an alarm.

Compare the determined data directly on your mobile terminal device or use the measured values for differentiated on-site analyses. For use in measuring environments with roaring wind an additional plug-on wind shield is included in the scope of delivery, which suppresses disturbing wind noise but simultaneously does not impair the sound level measurement.

Further useful features such as the logging function, chart representation of the measurement data or their export to a secondary analysis software as well as the report generation function permit the BS30WP's universal application and make it an ideal companion for noise measurements.

A few practical benefits

- Development, design, production: 100 % Trotec
- Quick and reliable sound level measurements
- Maximum, minimum value and hold function
- Average value determination
- Rapid response times
- Alarm function
- Automatic switch-off
- Magnetic holder to allow for hands-free working
- Variety of further measuring and analysis functions
- Practice-optimized German industrial design – protected design patent

1.5V AAA 3x

Technical data

Article number	3.510.206.051
Measuring range	35 dB(A) up to 130 dB(A)
Accuracy	±3.5 dB (at 1 kHz and 94 dB)
Resolution	0.1 dB
Response time	0.125 s
Operating conditions	-20 °C up to 60 °C
Functions	Battery status indication, Minimum value display, Maximum value display, Average value display, Hold function, Automatic switch-off, Indication in dB(A), Alarm function, Long-term measurement function, Representation of measurement data as chart or table, Data export, Report generation function
Data interface	Bluetooth 4.0
Power supply	3 x 1.5 V, AAA
Dimensions	110 mm x 30 mm x 20 mm
Weight	180 g
Scope of delivery	Measuring device, Battery(-ies), Wrist strap, Operating manual
Optional accessories	Bag for WP-appSensors (3510206090)

BB20 Layer thickness measuring device

Quick thickness measurements of car paint and other coatings

Thanks to its innovative dual sensor, the BB20 enables measuring the thickness of non-magnetic coatings such as paints, varnishes, plastic coatings, zinc coatings, enamellings or chrome plating both on iron or steel and also on non-ferrous metals like aluminium, magnesium, titanium etc.

The measuring head is spring-loaded and equipped with a practical V groove. This way, the measuring of round objects such as axes or hinges is easier and not influenced by vibrations.

The measuring device, comfortably to be used with one hand, impresses with a broad measuring range from 0 to 1,250 μm and ensures precise measuring results in every situation plus it comes with additional helpful statistics displays and a convenient alarm function when exceeding or falling below a predefined layer thickness.

The professional equipment features make the BB20 an indispensable tool in the motor vehicle sector, e.g. for paintwork control measurements or the detection of repainted accidental damages – but also for the universal check of hand rail and ship's paint or other protective coatings.

A few practical benefits

- Dual sensor for thickness measurement of non-magnetic layers on all magnetic and non-magnetic metals
- Broad measuring range from 0 μm to 1,250 μm
- Spring-loaded measuring head
- V groove for measurement to be performed at round surfaces
- Alarm function when exceeding or falling below a freely definable layer thickness
- Various statistical functions such as maximum, minimum and average layer thickness
- Two-point calibration for pinpoint accuracy
- Memory space for up to 400 measured values
- USB interface for measuring data transfer to a PC
- Easy one-hand operation
- Backlit display
- Automatic switch-off
- Battery status indication

Technical data

| Article number	3.510.205.075
Sensor	Ferromagnetic ground, Non-ferrous metal ground
Functional principle	Magnetic induction, turbulent flow
Guaranteed tolerance	Fe: ±3 % + 1 μm (at 0 μm up to 850 μm) Fe: ±5 % (at 850 μm up to 1,250 μm) nFe: ±3 % + 1.5 μm (at 0 μm up to 850 μm) nFe: ±5 % (at 850 μm up to 1,250 μm)
Minimum bending radius (surface)	Fe: 1.5 mm nFe: 3 mm
Minimum measuring surface	Fe: Ø 7 mm nFe: Ø 5 mm
Critical primary layer thickness	Fe: 0.5 μm nFe: 0.3 μm
Measuring range	0 μm up to 1,250 μm
Accuracy	±0.1 μm
Functions	Minimum value display, Maximum value display, Average value display, Automatic switch-off, Backlit display, Acoustic alarm function, Sensor for ferromagnetic ground, Sensor for non-ferrous metal ground, Two-point calibration, Standard deviation, Battery status indication
Power supply	2 x 1.5 V, AAA
Dimensions	110 mm x 24 mm x 54 mm
Weight	114 g
Scope of delivery	Measuring device, Battery(-ies), Transport case, USB cable, Software, Calibration accessories, Operating manual

BB30 Layer thickness measuring device

Professional layer thickness measurement of car paint and other coatings

With the BB30 you can quickly and precisely determine the thickness of non-magnetic coatings such as paints, varnishes, plastic coatings, zinc coatings, enamellings or chrome plating both on ferromagnetic and non-ferromagnetic metals. The sensitive dual sensor is just as precise on iron and steel as it is on non-ferrous metals like aluminium, magnesium or titanium.

The spring-loaded measuring head comes with a practical V groove. On the one hand this simplifies measurements of round objects, e.g. axles or hinges and on the other hand, they become insensitive to vibrations.

Whether you use the instrument conveniently with just one hand, or for use on difficult-to-reach measuring points in combination with the included flexible probe extension - the BB30 always delivers accurate measurement results with a measuring range between 0 and 2,000 µm. Saved measured values and groups are available directly on the device if required. Furthermore, the data transfer is effected via Bluetooth – simple and wireless.

Regardless of whether for use in the automobile sector, for layer thickness measurement of hand rail and ship's paint or checking enamellings – the BB30 is the ideal hand-held measuring device for pros in this and other fields.

A few practical benefits

- Dual sensor for thickness measurement of non-magnetic layers on all magnetic and non-magnetic metals
- Broad measuring range from 0 µm to 2,000 µm
- Spring-loaded measuring head
- V groove for measurement to be performed at round surfaces
- Convenient probe extension to reach poorly accessible measuring locations
- Error indicator for incorrect measuring
- Simple zero point calibration for quick operational readiness and high precision
- Memory space for up to 2,500 measured values
- All stored values and groups can be called up directly at the device
- Bluetooth interface for PC measuring data transfer
- Adaptive display illumination
- Automatic switch-off
- Battery status indication

Technical data

| Article number	3.510.205.077
Sensor	Ferromagnetic ground, Non-ferrous metal ground
Functional principle	Magnetic induction, turbulent flow
Guaranteed tolerance	Fe: ±2 % + 2 µm (at 0 µm up to 1,000 µm) Fe: ±3.5 % (at 1,000 µm up to 2,000 µm) nFe: ±2 % + 2 µm (at 0 µm up to 1,000 µm) nFe: ±3.5 % (at 1,000 µm up to 2,000 µm)
Minimum bending radius (surface)	Fe: 1.5 mm nFe: 3 mm
Minimum measuring surface	Fe: Ø 7 mm nFe: Ø 5 mm
Critical primary layer thickness	Fe: 0.5 µm nFe: 0.3 µm
Measuring range	0 µm up to 2,000 µm
Accuracy	±0.1 µm (at 0 µm up to 100 µm) ±1 µm (at 100 µm up to 1,000 µm) ±0.01 mm (at 1,000 µm up to 2,000 µm)
Functions	Minimum value display, Maximum value display, Average value display, Automatic switch-off, Backlit display, Sensor for ferromagnetic ground, Sensor for non-ferrous metal ground, Error indicator for incorrect measuring, Bluetooth, Battery status indication
Power supply	2 x 1.5 V, AAA
Dimensions	114 mm x 27 mm x 54 mm
Weight	152 g
Scope of delivery	Measuring device, Battery(-ies), Transport case, Calibration accessories, Probe cable extension, Operating manual

BD5A Cross line laser

Exact alignment made easy – with laser precision instead of spirit level

The cross line laser is a state-of-the-art spirit level and superior to its old-fashioned predecessor in every respect. Whether you want to precisely align pictures in parallel at right angles, drill holes on a straight projected line or attach tiles in a strict grid – using the cross line laser BD5A from Trotec, all this and much more is easily possible.

Immediately after being switched on, the BD5A – which is battery-operated and can thus be used conveniently in any place – projects a right-angled laser cross onto the opposite wall. Since the device is self-levelling, the projected lines are always 100 % straight.

The BD5A's levelling mode automatically compensates for an unevenness of the ground up to an inclination of 4°. If self-levelling is impossible due to larger unevenness, the laser will give a warning via a red LED on the device and a pulsing laser cross on the projection surface. Where previously one had to make use of a spirit level and pencil, now modern laser technology has become the solution.
If required, the two light-intense laser cross lines can also be switched on and levelled separately at any time at the push of a button – thus producing an individual horizontal or vertical line. Moreover, besides perpendicular projection, you can also easily use the BD5A for alignment at oblique lines, for instance if you want to hang up pictures parallel to a banister.

A few practical benefits

- Projects light-intense laser lines up to a distance of 10 m
- Self-levelling laser – always automatically aligned straight
- Laser projection either as cross lines or as individual horizontal or vertical line
- High accuracy of only ± 0,8 mm/m (at 0°)
- Ideally suited for fast and straight alignment of drill holes, pictures, tiles, strips of wallpaper, wall cupboards, shelves etc.
- Incl. multifunctional combination holder with universal clamp plus suction cup
- Latest laser technology ultra-easy to handle
- Extremely light and ultra-compact
- Can be used everywhere immediately thanks to battery operation
- Laser locking function for projecting oblique lines
- Operating switch with transport position for safe laser position fixing when changing the location
- Integrated ¼ inch tripod thread

Technical data

Article number	3.510.205.151
Display	Multifunction LED
Range auto-leveling	±4°
Range	10 m
Laser class	2
Laser output	1 mW
Laser wavelength	650 nm
Accuracy	±0.8 mm/m (at 0°), ±1 mm/m (at ≤4°)
Type of protection	IP40
Functions	Self-leveling cross-laser laser, Intuitive usability, Projection of cross and single lines (horizontal & vertical), Laser locking function (transport protection) and tilt adjustment, ¼ inch tripod thread, Multifunctional support arm
Power supply	2 x 1.5 V, AA
Dimensions	83 mm x 60 mm x 72 mm
Weight	275 g
Scope of delivery	Measuring device, Multifunctional support arm, Battery(-ies), Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BD7A Rotary laser

All-round precise working and alignment in interior spaces

The 360° rotary laser BD7A, which is battery-powered and can thus be used anywhere, quickly and easily supports your decoration projects and assembly work at home whenever high measurement accuracy and precision are crucial. At the push of a button, the device projects a 360° horizontal laser line allowing you e.g. to hang wallpaper borders on a straight line or drill holes at a perfectly uniform height. Simultaneously on all four walls! If required, the BD7A additionally also projects a vertical laser line on the opposite wall, which is useful for aligning paintings or shelves on the rectangular laser cross or laying tiles at a precise pattern, for instance. Even oblique marking lines can be projected in a trice at a freely definable inclination angle. This makes the otherwise tricky installation of a banister to be mounted in parallel to the stairs become mere child's play.

Three operating modes, the possibility of inclination and the multifunctional combination holder make the compact line laser BD7A an indispensable measuring tool for do-it-yourselfers. Forget about time-consuming handling of a spirit level and pencil prior to the actual assembly work. The measuring device is self-levelling and fully automatically compensates for unevenness of the ground of up to 3°. This self-alignment only takes a few seconds and takes place immediately after the device is switched on.

A few practical benefits

- 3 projection modes: 360° horizontal mode, cross line mode, 90° vertical mode
- Projects light-intense laser lines up to a distance of 10 m
- Self-levelling rotary laser – always automatically aligned straight
- High accuracy of only ± 0.8 mm/m (at 0°)
- Ideally suited for fast and straight alignment of drill holes, pictures, tiles, strips of wallpaper, wall cupboards, shelves etc.
- Visual warning when outside the auto-levelling range
- Incl. multifunctional combination holder with universal clamp plus suction cup
- Latest laser technology ultra-easy to handle
- Extremely light and ultra-compact
- Can be used everywhere immediately thanks to battery operation
- Laser locking function for projecting oblique lines
- Operating switch with transport position for safe laser position fixing when changing the location
- Integrated ¼ inch tripod thread
- Quick charging via supplied micro USB cable

Technical data

Article number	3.510.205.152
Display	2 status LEDs (red/green)
Range auto-leveling	±3°
Range	10 m
Laser class	2
Laser output	1 mW
Laser wavelength	650 nm
Accuracy	±0.8 mm/m (at 0°), ±1 mm/m (at ≤3°)
Type of protection	IP40
Functions	Cardanic automatic levelling, Intuitive usability, Projection of individual or cross lines (360° horizontal, 90° vertical), Laser locking function (transport protection) and tilt adjustment, Optical warning outside the automatic levelling range, ¼ inch tripod thread, Multi-functional support arm
Power supply	1 x 3.7 V Li-ion battery integrated
Dimensions	55 mm x 55 mm x 112 mm
Weight	280 g
Scope of delivery	Measuring device, Li-ion battery (integrated), Multi-functional support arm, Micro USB cable, Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BD11 Distance meter

Small in size, but big on performance

Despite its small size, the convenient mini laser measuring device BD11 comes equipped with everything a distance meter might need. These features includes the precise laser measurement of distances, areas and volumes, the surprisingly varied equipment with helpful functions as well as the simple, intuitive operation. At the same time the measuring device is compact enough to fit into a trouser or shirt pocket. Finally, a distance meter saving the avid do-it-yourselfer or craftsman both effort and money.

The laser measuring device with its unbeatable value-for-money ratio determines distances of up to 30 metres, areas and volumes precisely and with lightning speed. Moreover, the BD11 can score with the functions 'Pythagoras' and 'Pythagoras times two': Both are indispensable functions enabling the indirect calculation of distances or heights in addition to checking the right angle. The hand-held laser meter further comes with handy features such as a non-stop measuring mode, the addition and subtraction of the measurement results as well as the automatic saving of the 10 most recent measurements.
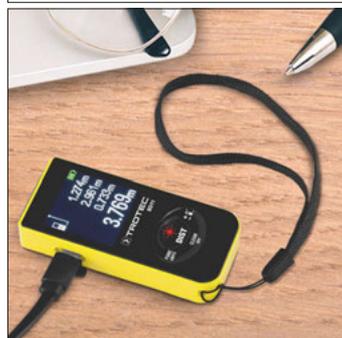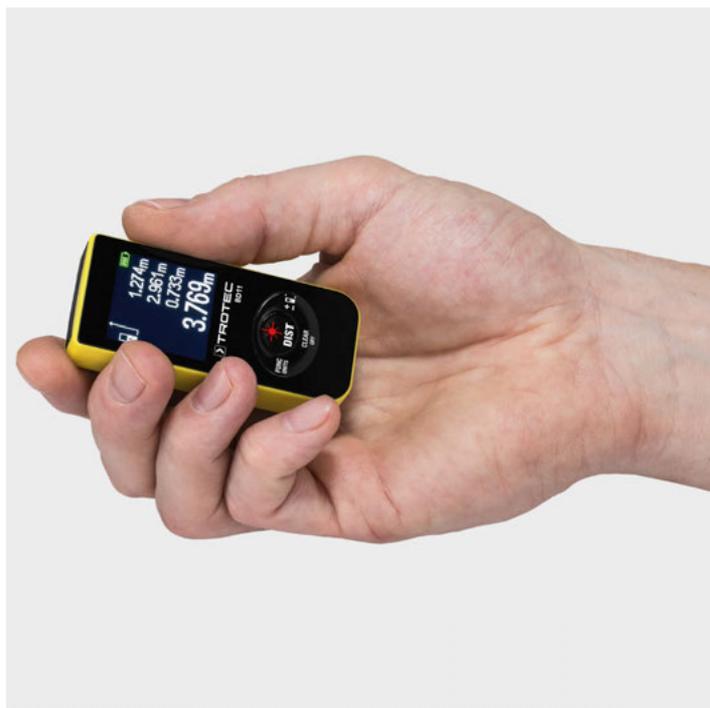
A few practical benefits

- Range of 0.05 m to 30 m
- Indirect distance and height or partial height calculation (3-point Pythagoras functions)
- Precise measurement of distances, areas and volumes within seconds
- Illuminated multi-line display
- Non-stop measuring mode with Min/Max function
- Addition and subtraction of measuring results
- Automatic saving of the 10 most recent measured values
- Robust workmanship – dust- and splash-proof (IP54)
- Measurement to be made from the front and rear edge
- Battery status indication
- Automatic switch-off
- Wrist strap
- Quick charging via supplied micro USB cable

Technical data

Article number	3.510.205.153
Range	0.05 m up to 30 m / 0.17 ft up to 98 ft
Measured values	m, in, ft
Recall of previous measurements	10
Type of protection	IP54
Functions	Minimum value display, Maximum value display, Automatic switch-off, Backlit display, Pythagoras function, Non-stop measuring function, Area measurement, Volume measurement, Recall of previous measurements, Addition, Subtraction, Battery status indication
Power supply	1 x 3.7 V Li-ion battery integrated
Dimensions	34 mm x 75 mm x 15 mm
Weight	24 g
Scope of delivery	Measuring device, Li-ion battery (integrated), Wrist strap, Micro USB cable, Operating manual

BD16 Distance meter

Precise laser measurement of distances, areas and volumes

The ambitious handymen that wants to achieve great things in his work at home or for his hobby, needs accordingly precise measuring instruments. Thanks to laser measurements the BD16 determines the exact measures of distances, areas and volumes without the slightest effort and at the speed of light. Hence, the tasks of measuring as well as correctly and thus cost-effectively calculating floor space or wall surfaces and also room volume are mere child's play for the laser distance measuring device.

Its measuring accuracy with a deviation of only 3 millimetres and a maximum range of about 40 metres make the BD16 an ideal tool for almost every craftsman and do-it-yourselfer. And yet the precise distance measuring device can offer even more, e.g. the MIN and MAX tracking functions as well as 'Pythagoras' and 'Pythagoras times two' – enabling i.a. indirect calculations of distances or heights. Since this is a question of measuring precisely in a horizontal line, the measuring device is further provided with a spirit level function implemented in form of a bubble – a useful feature, yet by no means standard. All further equipment features of the practice-optimised distance measuring device BD16 also demonstrate first-class functionality and easy handling characteristics. This includes the automatic switch-off function: after 30 seconds for the laser, after 3 minutes in case of the measuring instrument as a whole.

A few practical benefits

- Range of 0.05 m to 40 m
- Indirect distance and height or partial height calculation (3-point Pythagoras functions)
- Precise measurement of distances, areas and volumes within seconds
- Illuminated multi-line display
- Non-stop measuring mode with Min/Max function
- Addition and subtraction of measuring results
- Automatic saving of the 10 most recent measured values
- Can be used as spirit level thanks to bubble
- Robust workmanship – dust- and splash-proof (IP54)
- Measurement to be made from the front and rear edge
- Automatic switch-off
- Belt clip
- Wrist strap

Technical data

| Article number	3.510.205.154
Range	0.05 m up to 40 m / 0.16 ft up to 131 ft
Measured values	m, in, ft
Recall of previous measurements	10
Type of protection	IP54
Functions	Minimum value display, Maximum value display, Automatic switch-off, Backlit display, Pythagoras function, Non-stop measuring function, Area measurement, Volume measurement, Recall of previous measurements, Addition, Subtraction, Signal tone, Battery status indication
Power supply	2 x 1.5 V, AA
Dimensions	124 mm x 41 mm x 23 mm
Weight	118 g
Scope of delivery	Measuring device, Belt clip, Wrist strap, Battery(-ies), Operating manual

BD21 Distance meter

With a 90 ° tilt sensor for manifold laser distance measurements

The advanced distance meter BD21 offers functions and equipment features as standard which are usually restricted to expensive high-class devices: Thanks to the integrated 90° tilt sensor with 3-point Pythagoras functions you can not only determine distance, area or volume in a quick and precise way – even height and partial height measurements, distance tracking or indirect distance or height measurements past obstacles do not pose a problem for this handy measuring device, which can further be applied as electronic spirit level.

Despite an extensive functional range, the laser distance meter is extremely easy to handle – every function and setting has a separate button. Due to the selectable illumination of the large multi-line display, measurements pose no problem no matter if in dark surroundings or daylight.

Designed for indoors usage, the BD21 can also confidently cope with rough situations on construction sites, for the robust measuring device is dust- and splash-proof as per IP54. It is therefore excellently suited for all types of handicraft.
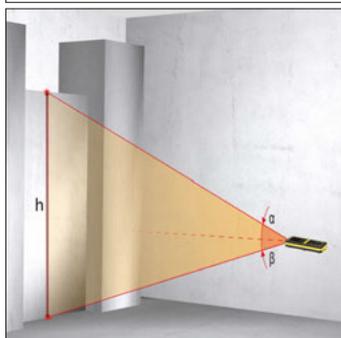
A few practical benefits

- Integrated 90° tilt sensor
- Range of 0.05 m to 70 m
- Indirect distance and height or partial height calculation (3-point Pythagoras functions)
- Precise measurement of distances, areas and volumes within seconds
- Illuminated multi-line display
- Can be used as an electronic spirit level
- Robust workmanship – dust- and splash-proof (IP54)
- Measurement to be made from the front and rear edge
- Multifunctional end piece
- Timer function
- Battery status indication
- Automatic switch-off
- Integrated ¼ inch tripod thread

Technical data

Article number	3.510.205.156
Range	0.05 m up to 70 m / 0.16 ft up to 230 ft
Measured values	m, in, ft
Inclination measurement	90° (-45° up to 45°)
Recall of previous measurements	10
Type of protection	IP54
Functions	Minimum value display, Maximum value display, Automatic switch-off, Backlit display, Indirect measurement as per Pythagoras' theorem, Indirect measuring using tilt sensor, Non-stop measuring, Area measurement, Volume measurement, Recall of previous measurements, Timer, Addition, Subtraction, Signal tone, Multifunctional end piece, Electronic spirit level, Distance tracking, Tripod, Battery status indication
Power supply	2 x 1.5 V, AA
Dimensions	118 mm x 27 mm x 49 mm
Weight	150 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Wrist strap, Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BD26 Distance meter

Professional laser distance measurements up to 120 metres

The professional distance meter for architects and planners allows to dimension large halls and storage spaces or entire staircases in one run. The device features a high degree of functionality including a 90° tilt sensor for measuring distances, heights and partial heights indirectly even past obstacles. Thanks to the 3-point Pythagoras functions you can determine distances, surfaces or volumes in a quick and precise way.

In terms of handling, the BD26 impresses with its compactness and ergonomic design. Despite its wide range of functions, this laser distance meter can be operated easily and intuitively since every function and setting has a separate button. The large multi-line display designed for indoor use can be optionally illuminated and thus enables measurements even in dark rooms or in the daylight without any problems. The integrated electronic spirit level completes the equipment. Owing to its dust and splash protection as per IP54, the robust device also allows for use in rough construction site conditions.

A few practical benefits

- Integrated 90° tilt sensor
- Range of 0.05 m to 120 m
- Indirect distance and height or partial height calculation (3-point Pythagoras functions)
- Precise measurement of distances, areas and volumes within seconds
- Illuminated multi-line display
- Can be used as an electronic spirit level
- Robust workmanship – dust- and splash-proof (IP54)
- Measurement to be made from the front and rear edge
- Multifunctional end piece
- Timer function
- Battery status indication
- Automatic switch-off
- Integrated ¼ inch tripod thread

Technical data

Article number	3.510.205.161
Range	0.05 m up to 120 m / 0.16 ft up to 394 ft
Measured values	m, in, ft
Inclination measurement	90° (-45° up to 45°)
Recall of previous measurements	10
Type of protection	IP54
Functions	Minimum value display, Maximum value display, Automatic switch-off, Backlit display, Indirect measurement as per Pythagoras' theorem, Indirect measuring using tilt sensor, Non-stop measuring, Area measurement, Volume measurement, Recall of previous measurements, Timer, Addition, Subtraction, Signal tone, Multifunctional end piece, Electronic spirit level, Distance tracking, Tripod, Battery status indication
Power supply	2 x 1.5 V, AA
Dimensions	118 mm x 27 mm x 49 mm
Weight	150 g
Scope of delivery	Measuring device, Battery(-ies), Bag/Holster, Wrist strap, Operating manual
Optional accessories	Universal tripod (6300000200), Combination bracket with universal clamp (6300000201)

BI15 Wall scanner

Practical universal locating device for drilling and levelling assistance

Goodbye drilling damage – The BI15 wallscanner protects drills and saves nerves at the same time, as this multifunctional measuring device does not only locate ferrous and non-ferrous metals or live cables, but also reliably finds wooden substructures located below plasters or concrete.

The measuring device is fitted with an adjustable laser levelling assistance to show the further course for construction or piping. This laser levelling assistance, combined with the two built-in spirit levels can be used as installation tools for correct angular alignment.

So that the BI15 wallscanner can also be aligned for measuring on uneven surfaces, there are two independent adjustment wheels fitted to the back which can compensate for unevenness at the position of measuring.

A few practical benefits

- Simple detection of live cables, wood or metal in walls and floors
- Adjustable laser levelling assistance
- With integrated bulls eye level and spirit level for exact alignment
- Adjustment wheels for compensating for uneven surfaces
- Detection depth up to 38 mm
- Audiovisual alarm upon detection of alternating current
- Laser installation assistance up to 6 meter range
- Material calibration when switched on
- Simple operation
- Battery status indication

Technical data

Article number	3.510.205.140
Detection depth for metal and live cables	Max. 38 mm
Detection depth for wood	Max. 19 mm
Laser rotation	180° in steps of 45°
Laser accuracy	12.7 mm at 6.1 m
Laser range	Max. 6.1 m
Functions	Metal and wood measuring modes, Selectable levelling laser, Audiovisual alarm upon detection of alternating current, Signal tone for detection of edges, Calibration function, Battery status indication
Power supply	1 x 9 V block battery
Dimensions	180 mm x 38 mm x 67 mm
Weight	180 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

BI20 Wall scanner

Indispensable locating device for drilling and orientation assistance

The BI20 wallscanner is indispensable both for professionals and ambitious do-it-yourselfers: The measuring device does not only reliably locate ferrous and non-ferrous metals and live cables, but also wooden substructures located under plaster or concrete. These hidden elements, which are potential interference factors for all work on walls and floors, are detected by the device to a depth of 50 mm.

Furthermore, the BI20 has an audiovisual warning function, which is used to signal the detection of live AC cables. The device, which is conceivably easy to handle, is equipped with an automatic switch-off function allowing to safe battery power, and moreover impresses with an excellent value-for-money ratio.
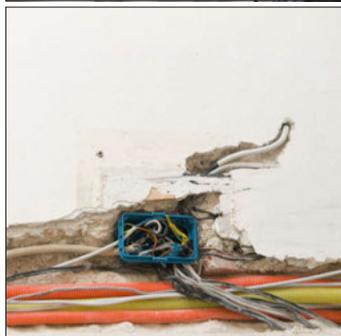
A few practical benefits

- Development, design, production: 100 % Trotec
- Simple detection of live (AC) cables, wood or metal in walls and floors
- Detection depth up to 50 mm
- Audiovisual alarm upon detection of alternating current
- Simple handling via one button
- Battery status indication
- Automatic switch-off
- Practice-optimized German industrial design – protected design patent

Technical data

Article number	3.510.205.141
Detection depth for metal and live cables	Max. 50 mm
Detection depth for wood	Max. 25.4 mm
Functions	Measuring modes: Metal, wood, power cables (AC), Automatic switch-off, Visual signal transmitter, Acoustic signal transmitter, Battery status indication
Power supply	1 x 9 V block battery
Dimensions	168 mm x 35 mm x 75 mm
Weight	210 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

UV-Torchlight 5F Ultraviolet LED torch

Ultraviolet and ultrapractical

The lightweight UV-Torchlight 5F with a robust housing made of a high-strength aluminium alloy is a versatile UV LED torch for leisure and professional applications since its UV emitting range of 380 to 385 nanometres is perfectly suited for many common fields of application.

Even when you are on the move, the UV-Torchlight 5F allows you, among others, to quickly and easily check the safety features on identity documents and banknotes, to analyse conspicuous features in works of art by means of UV light, or to have hygiene inspections and controls carried out by cleaning personnel. Furthermore, using fluorescent fluid additives, you can also locate leaks in fluid-bearing lines, for example in motor vehicles and indoor installations.

Naturally the UV-Torchlight 5F is also perfectly suited for geocaching applications at night and for hygiene checks in the kitchen, bathroom and hotel rooms since its nine ultraviolet high-performance LEDs do not only visualize UV colourants but also traces of dried blood, sweat and other fluids. This way, pet owners can easily check whether their pets are house-trained. Due to a length of under 10 cm, the UV-Torchlight 5F fits into even the smallest pocket and is therefore always at hand. Moreover, it can be switched on and off easily via the convenient end cap switch.

A few practical benefits

- Ultraviolet LED technology with 1,000 mW and 380 - 385 nm wavelength

- Optimum wavelength for UV light that can be used effectively in many fields of application

- 9 UV high-performance LEDs behind a clear glass lens with high scratch resistance

- Low energy consumption thanks to modern LED technology

- Light, compact and durable aluminium housing with handy surface

- Convenient end cap switch

Technical data

Article number	3.510.011.003
Lamp type	9 x LED, approx. 1 W
Wavelength	UV-A, Peak up to 380 ~ 385 nm
Housing design	6061-T6 aluminium
Type of protection	IP65
Functions	No warm-up phase – immediately ready for use, Insensitive to magnetic fields
Power supply	3 x 1.5 V, AAA
Dimensions	98.5 mm x 29 mm x 29 mm
Weight	79 g
Scope of delivery	Torch, Battery(-ies), Operating manual

BH30 Socket hygrostat

Feel-good climate paired with economic efficiency

The hygrostat BH30 permits the regulation of the humidity level to be adjusted in increments of 1 % in a range between 20 % and 90 % by means of connected humidifiers, air coolers or dehumidifiers. The convenient plug adapter automatically switches these devices on or off and so ensures an agreeable feel-good climate and savings — for unnecessary equipment runtimes are avoided. The socket hygrostat is simply installed between humidifier or dehumidifier and socket. Then you select the desired mode and the individual humidity value – that's it! Via an electronic moisture measurement the BH30 determines the current humidity level and compares it to the individually adjustable target humidity values.

Exceeding or falling below the set limits causes the hygrostat to automatically switch the connected humidity-regulating devices on or off, e.g. a humidifier in case of excessively dry air and a dehumidifier if the humidity level is too low. As a consequence the connected devices need no further attention and can be disregarded. The BH30 is also ideally suited for an efficient automatic control of devices without integrated hygrostat – such as Trotec's air coolers or dehumidifiers without built-in hygrostat.

A few practical benefits

- Simple handling and programming
- Constant humidity regulation of humidifiers and dehumidifiers to a set value
- Regulation of the humidity level between 20 % and 90 % RH
- Prevention of unnecessary runtimes due to automatic device switch-on/switch-off
- Operating status can be identified by red or green indicator light
- Neatly arranged display
- Reset option for selected settings
- Buffer battery for storage of selected settings

Technical data

Article number	6.100.004.205
Switching capacity	9 A / 2,070 VA (Inductive load) 16 A / 3,680 VA (Resistive load)
Control range	20 % RH up to 90 % RH
Accuracy	±5 % RH
Operating conditions	5 °C up to 35 °C at 95 %
Insulation	Protection class I
Type of protection	IP30
Functions	Humidity control for humidification and dehumidifying operation, Display of the current room humidity, Manual switching function, Power fail-safe
Power supply	230 V/50 Hz / 1x 3 V, CR2032
Dimensions	126 mm x 68 mm x 76 mm
Weight	165 g
Scope of delivery	Device, Battery(-ies), Operating manual

Note: Connected consumers are switched to zero potential when the device is switched OFF and must be provided with an automatic restart function.

BN30 Socket thermostat

Plug in. Set room temperature. That's it!

The thermostat BN30 enables temperature control of heating devices and air conditioners in steps of half a degree from 5 °C to 30 °C. To this end, simply plug the socket thermostat in between the heating device or air conditioner and a socket, and select the desired temperature. Via its integrated sensors the device measures the current room temperature and regulates the heating device or air conditioner according to the desired nominal value.

The extremely simple handling and programming of the device enable a multitude of possible applications – for example, the BN30 is particularly suited for mobile heaters. The respective current room temperature can be read conveniently from the large overview display. The heating device or air conditioner can also be switched off permanently by the thermostat. Furthermore, a buffer battery makes sure that the selected settings are even saved in the event of a power failure.
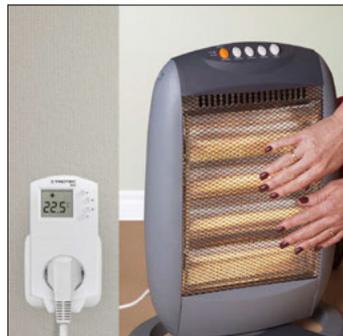
A few practical benefits

- Simple handling and programming
- Quick adjustment of the programme temperature possible
- Suitable for heating and cooling control
- Operating range from -10 °C to +70 °C
- Regulation from 5 °C to 30 °C
- Temperature control in steps of 0.5 °C
- Permanent consumer switch-off function (OFF)
- Overview display
- Buffer battery for storage of selected settings

Technical data

Article number	6.100.007.009
Switching capacity	2 A / 460 VA (Inductive load) 16 A / 3,680 VA (Resistive load)
Control range	5 °C up to 30 °C / 41 °F up to 86 °F
Accuracy	±0.5 °C
Operating conditions	-10 °C up to 70 °C
Display	LCD, Monochrome
Insulation	Protection class I
Type of protection	IP20
Functions	Temperature control for heating or cooling operation, Display of the current room temperature, Manual switching function, Power fail-safe
Power supply	230 V/50 Hz
Dimensions	140 mm x 60 mm x 75 mm
Weight	340 g
Scope of delivery	Device, Operating manual

Note: Connected consumers are switched to zero potential when the device is switched OFF and must be provided with an automatic restart function.

BN35 Radio-controlled socket thermostat

Saving precious heating energy thanks to timer function

The BN35 radio-controlled socket thermostat with its integrated multiple timer function is the ideal solution for adapting your devices such as infrared radiant heaters or heating panels to your individual heating requirements while achieving your desired energy savings. Thanks to the timer function of the BN35, up to six switching times can be set freely for each day of the week. Here you can program both your preferred point in time where you want the heater to switch on or off, and the desired temperature ranging from 0 to 70 °C.

A temperature probe integrated in the BN35 continuously measures the ambient temperature and compares it to the desired target temperature. When the latter is reached, the terminal device is switched off – and will only be re-activated when the temperature drops below the desired value again. Up to 100 radio-controlled sockets can be separately configured and switched using the BN35.

The radio range of up to 20 m also allows for convenient access to the terminal devices to be switched, even over larger distances. It goes without saying that the heating device or air conditioner can also be switched off permanently by the thermostat. Since the operation of air conditioners is sensitive to energy costs, too, the socket thermostat can easily be switched over from heating to cooling mode.

A few practical benefits

- Suitable for heating and cooling control – manually and automatically
- Comprehensive programming options: 7 week programs, 6 changes per day
- Individual programming depending on the day: Mon - Fri, Sat - Sun, Mon - Sun
- Simple and flexible installation – no mains connection or cable
- Suitable for switching up to 100 radio-controlled sockets
- Simple switch-over from daylight saving to standard time
- Operating range from 0 °C to 70 °C
- Temperature control in steps of 1.0 °C
- Automatic frost protection system (5 °C)
- Permanent consumer switch-off function (OFF)
- Large range of up to 20 metres
- Indication of room temperature and time
- Backlit display
- Battery status indication
- For wall mounting

Technical data

Article number		6.100.007.008
Switching capacity		75 A / 250 VA (Inductive load) 16 A / 250 VA (Resistive load)
Control range		0 °C up to 70 °C / 32 °F up to 158 °F
Accuracy		±1 °C
Measuring interval		20 s
Operating conditions		0 °C up to 70 °C
Display		LCD
Insulation		Protection class II
Type of protection		IP20
Radio	Transmission frequency	2.4 GHz
	Range	20 m
Functions		Temperature control for heating or cooling operation, Display of the current room temperature, Target temperature indication, Programmable timer switch, Backlit LCD display, Automatic frost protection system, Power fail-safe, Simple switch-over from daylight saving to standard time, LED indicator button, Memory function, Can be remote-controlled, Battery status indication
Power supply	Control unit	2 x 1.5 V, AA
	Radio-controlled socket	230 V/50 Hz
Dimensions		73 mm x 66 mm x 112 mm
Weight		105 g
Scope of delivery		Control unit, Radio-controlled socket, Battery(-ies), Operating manual
Optional accessories		Separate radio-controlled socket BN35R (6100007007)

Note: Connected consumers are switched to zero potential when the device is switched OFF and must be provided with an automatic restart function.

BX09 Energy cost measuring device

Gets on the track of energy wasters

Which electrical device in your office or household costs what amount of energy? This question is answered quickly and reliably by the energy cost measuring device BX09 — offered at an optimum value-for-money ratio. With a minimum possible current indication of 0.1 W this measuring device even gets on the track of the smallest energy wasters, e.g. devices in standby mode.

Simply plug the device in between a socket and the power consumer to be checked, and the BX09 will immediately display the current energy consumption. This can be done either as active power in watts, kWh, price or costs per kWh.

A few practical benefits

- Quick and easy measurement of the energy demand
- Power consumption indication in watts, price or costs per kWh
- Minimum possible current indication 0.1 W
- Buffer capacitor for storage of selected settings

Technical data

Article number	3.510.205.918
Measuring range	0.1 W up to 3,680 W
Maximum performance	3,680 W / 16 A
Input voltage	230 V, AC / 50 / 60 Hz
Consumption measurement	0.01 kWh up to 9,999.9 kWh
Recording capacity	9,999.9 h
Surrounding conditions	5 °C up to 40 °C
Insulation	Protection class I
Type of protection	IP20
Functions	Consumption indication of scale of charges, Consumption indication as active power in watts, Power fail-safe
Dimensions	95 mm x 51 mm x 70 mm
Weight	100 g
Scope of delivery	Measuring device, Operating manual

BX11 Energy cost measuring device

Energy cost measuring made easy

This measuring device not only quickly and easily reveals secret energy wasters in the office or at home, it has much more to offer. For the BX11 is a complete miniature energy cost measuring station and the handling is dead easy: Programmed in line with demand, the device is simply plugged in-between socket and power consumer and immediately displays the current energy consumption – optionally as active power in watt or directly in euros and cents.

Handy: For the precise calculation of costs, two electricity tariffs can be saved in the device – for instance daily rate and night rate. Thanks to the integrated digital clock with calendar function the correct rate always according to the time of day is considered.

A convincing practical benefit for building owners or craft enterprises is the accurately recorded accounting mode: Over a period of 40 days, the device can non-stop measure the precise energy consumption of random devices, e.g. devices supplied on site by third parties. Simultaneously, the BX11 registers the entire on-time of the connected consumers and saves all data – power failure-proof – in the internal EEPROM.

A few practical benefits

- Quick and easy measurement of the energy demand
- Power consumption indication as active power in watt or directly in euros and cents
- Measurement of the correct rate according to the time of day by use of the integrated digital clock with calendar function
- Memory function for two definable electricity tariffs, e.g. daily rate and night rate
- Recording mode for long-term measurements

Technical data

Article number	3.510.205.920
Measuring range	2 W up to 3,680 W
Maximum performance	3,680 W / 16 A
Input voltage	230 V, AC / 50 / 60 Hz
Consumption measurement	0.1 kWh up to 999.9 kWh
Recording capacity	9,999 h
Surrounding conditions	5 °C up to 40 °C
Insulation	Protection class I
Type of protection	IP20
Functions	Integrated digital clock, Consumption indication as active power in watts, Consumption indication as scale of charges in cents, Calendar function / date display, 2 programmable electricity tariffs, Recording mode for long-term measurements, Power fail-safe
Power supply	3 x 1.5 V, AAA
Dimensions	122 mm x 64 mm x 77 mm
Weight	300 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

BX50 MID Energy consumption measuring device

Tamper-proof solution for the professional commercial determination of the energy consumption for billing purposes.

The BX50 MID is probably the most compact ready-to-connect energy consumption measuring instrument with MID-compliance* on the market and therefore is the ideal solution for many craftsmen or service companies, which, for billing purposes, have to determine the amount of energy consumed at the customer's site.

For tasks of this kind it is not always practical to directly provide a largely dimensioned, MID-compliant* multiple socket outlet, especially if perhaps only one electricity consumer is used.

But the use of conventional energy cost measuring devices for home use without MID-compliance* for the commercial measurement of energy consumption for billing purposes is not permissible. The BX50 MID, which has been specifically designed for this purpose closes this gap in a cost-effective fashion:

The MID-compliant* energy consumption measuring device can be easily plugged between the electrical appliance and a normal household safety socket (230 V/AC) and does not involve any further installation effort. Only when operating the BX50 MID on construction or installation sites at a socket of the building's wiring with unknown protective measures, a BGI-608-compliant plug adapter must be used.

A few practical benefits

- Development, design, production 100 % Trotec

- Professional measuring device for quickly and easily recording the energy requirement of electric consumers

- MID-compliance – approved for the commercial determination of the energy consumption for billing purposes

- Sealing slots for safeguarding the plugs in compliance with the Weights and Measures Act (MessEG)

- Tamper-proof total consumption meter

- Resettable daily consumption meter

- Dust- and splash-proof – type of protection IP54

- Socket outlet with spring-loaded flap lid to provide protection against pollution when it is not used

- Practice-optimized German industrial design – protected design patent

Technical data

Article number	3.510.205.950
Measuring range	0 W up to 3.680 W
Maximum performance	3.680 W / 16 A
Alternating voltage	176 V up to 276 V
Input voltage	230 V, AC / 50 Hz
Consumption measurement	0 kWh up to 999,999.9 kWh
Surrounding conditions	-25 °C up to 55 °C
Measuring circuit category	CAT II (600 V)
Insulation	Protection class II
Accuracy class	Class 1 IEC62053-21, Class B EN50470-1/3
Type of protection	IP54
Measured values	Power [W], AC voltage [V/AC], Alternating current [A/AC], Frequency [Hz], Power factor [cos φ], Indication of max. electricity demand [W], Indication of absolute consumption [kWh]
Functions	Digital display of voltage (V), power (W), current (A), frequency (Hz), power factor (cos φ), max. electricity demand (W) and absolute consumption (kWh), Tamper-proof total consumption meter, Resettable daily consumption meter, Power fail-safe, Display illumination
Power supply	Via mains voltage
Dimensions	77 mm x 63 mm x 118 mm
Weight	155 g
Scope of delivery	Measuring device, Operating manual
Optional accessories	Safety seal (6100002090)

*MID-compliant counters correspond to the European Measuring Instruments Directive (MID) that defines the requirements for active power meters used for billing purposes. This for example also applies to the energy consumption measuring for recharging to insurance companies or customers. The former initial factory calibration is now replaced by the MID compliance, however, the devices have to be re-calibrated after a defined period of time – for instance after 8 years in case of electronic counters in Germany.

BE14 Voltage detector

Quick and non-contact voltage detection

The BE14 is a non-contact phasing tester enabling not only the quick localization of line breaks in exposed cables, e.g. in cable reels or fairy lights, but also detects all live conductors such as sockets, switches or cable links.

Owing to the capacitive measurement method, the voltage test can be effected quickly and easily without contact.

As soon as there is voltage present in the measuring tip's localization range, the red LED glow lamp starts to pulse accompanied by an additional acoustic alarm.

Practical detail: Integrated at the clip end of the BE14 is an LED torch – powerful enough to optimally illuminate dark measuring areas.

The BE14 ought to be found in the basic equipment of every handyman or craftsman carrying out work on live installations for quick testing.
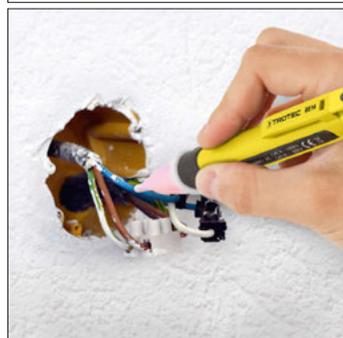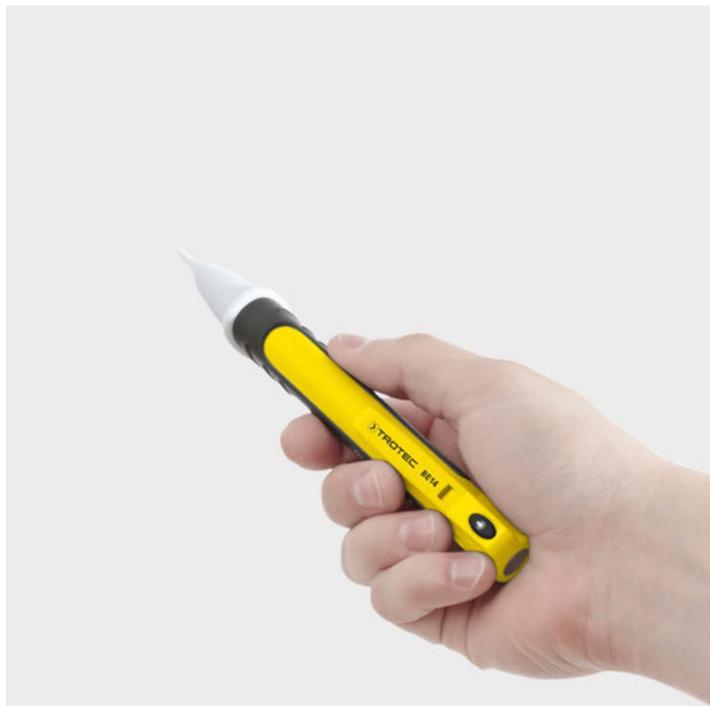
A few practical benefits

- Quick non-contact detection of alternating voltages
- Visual and acoustic alarm function
- Compact design in pen shape with pocket clip
- Integrated torch

Technical data

Article number	3.510.205.214
Voltage indication	Single-colour LED
Test type	Non-contact
Measuring range	U_{AC} 200 V up to 1,000 V
Measuring circuit category	CAT III (1,000 V), CAT IV (600 V)
Conformity	EN 61326, EN 61010-1, EN 61010-2-031, Degree of pollution 2
Functions	Non-contact AC voltage detection (without galvanic contact), Acoustic alarm, Visual alarm, Integrated torch
Power supply	2 x 1.5 V, AAA
Dimensions	176 mm x 26 mm x 26 mm
Weight	48 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

BE15 Voltage detector

Quick and non-contact voltage detection

The BE15 is a non-contact phasing tester enabling not only the quick localization of line breaks in exposed cables, e.g. in cable reels or fairy lights, but also detects all live conductors such as sockets, switches or cable links.

The device has two different sensitivity levels. When set to the highest measurement sensitivity, even low AC voltages of 24 V and above can be detected.

Owing to the capacitive measurement method, the voltage test can be effected quickly and easily without contact. As soon as there is voltage present in the measuring tip's localization range, the red LED lamp starts to pulse accompanied by an additional acoustic alarm.

Practical detail: Integrated at the clip end of the BE15 is an LED torch powerful enough to satisfactorily illuminate dark measuring areas.

The BE15 ought to be found in the basic equipment of every handyman or craftsman carrying out work on live installations for quick testing.

A few practical benefits

- Selection of two measuring ranges with different sensitivity levels
- Quick non-contact detection of alternating voltages
- Visual and acoustic alarm function
- Compact design in pen shape with pocket clip
- Integrated torch

Technical data

Article number	3.510.205.216
Voltage indication	Single-colour LED
Test type	Non-contact
Measuring range	U_{AC} 24 V up to 1,000 V, U_{AC} 200 V up to 1,000 V
Measuring circuit category	CAT III (1,000 V), CAT IV (600 V)
Conformity	EN 61326, EN 61010-1, EN 61010-2-033, Degree of pollution 2
Functions	Non-contact AC voltage detection (without galvanic contact), Acoustic alarm, Visual alarm, Integrated torch
Power supply	2 x 1.5 V, AAA
Dimensions	158 mm x 21 mm x 25 mm
Weight	48 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

BE16 Voltage detector

Stepless, non-contact voltage detection starting at 5 V

The non-contact voltage detector BE16 belongs in the basic tool kit of every do-it-yourselfer. For the detector identifies voltage sources of as little as 5 V, but also those ranging up to 1,000 V. The detection of even low voltage sources is enabled by a sensitivity that can be steplessly adjusted from minimum to maximum using the thumb-wheel at the side of the voltage tester. Thanks to this particular advantage, the BE16 detects every live conductor within a range from 5 to 1,000 V, e.g. in cable connections and cable drums, sockets and switches as well as junction boxes.

This method can even be used for detecting power lines located at a lower level. Owing to the capacitive measurement method, approaching the conductor with the voltage detector suffices – without any contact – and the device will warn you quickly by means of a flashing red LED illuminating the entire detector tip. An acoustic warning signal is emitted simultaneously. The BE16 is equipped with an integrated LED lamp that can be switched on in addition and enables an optimal illumination of darker detection areas. This feature enables safe and precise working even in unfavourable lighting conditions. The convenient clip allows you to attach the voltage detector securely e.g. to your shirt pocket and thus ensures constant operational readiness of this indispensable testing device.
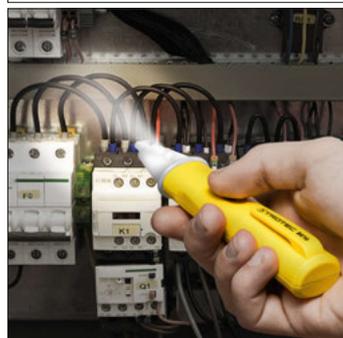
A few practical benefits

- Quick and non-contact detection of alternating voltage
- Visual and acoustic alarm when voltage is present
- Stepless adjustment of the measurement sensitivity
- Compact design in pen shape with pocket clip
- Integrated LED lamp for operation in unfavourable lighting conditions

Technical data

Article number	3.510.205.217
Voltage indication	Single-colour LED
Test type	Non-contact
Measuring range	U_{AC} 5 V up to 1,000 V
Measuring circuit category	CAT IV (1,000 V)
Conformity	EN 61610-1:2010, EN 61610-2-033:2012, EN 61326-1:2013, EN 61326-2-2:2013, Degree of pollution 2
Functions	Non-contact AC voltage detection (without galvanic contact), Acoustic alarm, Visual alarm, Integrated torch
Power supply	2 x 1.5 V, AAA
Dimensions	154 mm x 32 mm x 28 mm
Weight	50 g
Scope of delivery	Measuring device, Battery(-ies), Operating manual

# BE17 Voltage tester

Voltage detection device for everyday usage

Precise measuring technology and an outstanding value-for-money ratio make this bipolar voltage tester professional partner for practical use. The BE17 enables measurements of alternating (AC) or direct (DC) voltage and the respective polarity. Furthermore, it has a function for residual current device (RCD) testing and tripping. The status of all measured values can be easily read from an LED display.

Thanks to the ergonomic design, the voltage tester rests comfortably in the hand even after a long period of use. In addition, its impact, dust and splash proof housing complies with protection class IP64 and impresses all electricians working in tough conditions every day as well as semi-professional users.

A few practical benefits

- Versatile bipolar voltage tester for measuring alternating (AC) and direct (DC) voltage as well as polarity

- RCD test, 30 mA

- IP64 type of protection

- Overvoltage category CAT III 400 V

- Dust- and splash-proof housing

Technical data

| Article number	3.510.205.227
Display	LED bargraph
Test type	Bipolar contact measurement
Measuring range	U_{DC} 12 V up to 400 V, U_{AC} 12 V up to 400 V
Measuring circuit category	CAT III (400 V)
Internal resistance	300 kΩ / 25 kΩ
Conformity	IEC 61243-3
Type of protection	IP64
Functions	Automatic detection of DC and AC voltage, Automatic switch-on, Polarity test, RCD test, Low ohmic test, Overvoltage protection
Power supply	Via measuring voltage
Dimensions	240 mm x 26 mm x 45 mm
Weight	130 g
Scope of delivery	Measuring device, Measuring tip adapter (4 mm), Operating manual

NO BATTERY REQUIRED

BE20 Voltage tester

Versatile voltage detection device with professional features

Built and tested according to strict standards, provided with many professional functions and thanks to IP64 type of protection also optimally prepared for rough everyday usage – this bipolar voltage tester is the ideal measuring device for electricians and ambitious handymen.

The BE20 enables voltage tests, visual and acoustic continuity checks, bipolar rotating field tests and unipolar phase testing.

Despite its functional diversity, the compact BE20 is easy-to-handle and due to the ergonomic design and light weight lies comfortably in the hand. It also provides the user with additional safety by means of the connectable measuring point illumination for working in dark surroundings.
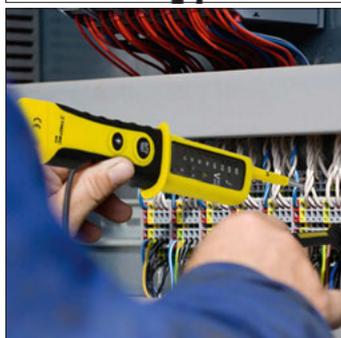
A few practical benefits

- Unipolar phase testing without counter potential
- Versatile bipolar voltage tester for measuring alternating (AC) and direct (DC) voltage as well as polarity and rotating field
- Visual and acoustic continuity test
- Voltage indication even with empty batteries
- Automatic switch-off
- Integrated torch for measuring point illumination
- Automatic function test
- Impact-, dust- and splash-proof housing

1,5 V AAA

2x

Technical data

Article number	3.510.205.230
Display	LED bargraph
Test type	Bipolar contact measurement
Measuring range	U_{DC} 12 V up to 690 V, U_{AC} 12 V up to 400 V
Measuring circuit category	CAT III (600 V)
Internal resistance	300 kΩ
Conformity	EN 61326, EN 61010-1, EN 61010-2-031
Type of protection	IP64
Functions	Automatic detection of DC and AC voltage, Continuity check, Acoustic continuity check, Visual continuity check, Polarity test, Phase sequence indicator, Unipolar phase testing, Integrated torch, Visual alarm, Acoustic alarm
Power supply	2 x 1.5 V, AAA
Dimensions	240 mm x 40 mm x 78 mm
Weight	237 g
Scope of delivery	Measuring device, Battery(-ies), Measuring tip adapter (4 mm), Operating manual

BE38 Clamp meter

Measurement of alternating current without circuit interruption

Measuring the current in running systems without the need to switch them off – this is no problem for the clamp-on ammeter BE38. Since the current measurement is effected without contact via the electromagnetic field, the electric circuit does not have to be interrupted for this procedure: this allows you to check the load current, AC voltage or continuity of circuits, fuses and contacts.

The compact design of the clamp meter with drop-shaped clamping jaws facilitates the use in the commercial and industrial sector, e.g. when working in confined control cabinets or poorly accessible locations.

Moreover, the robust, ergonomically shaped housing of the extremely cost-efficient BE38 allows for convenient one-hand operation.
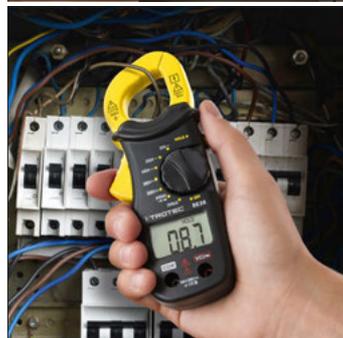
A few practical benefits

- 3 ½-digit LCD display (max. display 1,999)
- Robust housing
- CAT III 300 V
- Measurement of alternating current up to 400 A
- Voltage measurement up to 300 V (AC/DC)
- Resistance measurement and diode test
- Acoustic continuity test
- Hold function
- Suitable for line diameters of up to 25 mm

Technical data

| Article number		3.510.205.239
Display		LCD 3 1/2-digit
Measuring range (Accuracy)	Voltage	U_{DC} 0 V up to 300 V, U_{AC} 0 V up to 300 V (U_{DC} ±1 %, U_{AC} ±1.2 %)
	Current	I_{AC} 0 A up to 400 A (I_{AC} ±3 %)
	Resistance	0 Ω up to 200 kΩ (±1.2 %)
Measuring circuit category		CAT III (300 V)
Conformity		EN 61326
Functions		Hold function, Diode test, Continuity check, Acoustic continuity check, Overload protection, Battery status indication
Power supply		3 x 3 V, CR2032
Dimensions		148 mm x 27 mm x 60 mm
Weight		155 g
Scope of delivery		Measuring device, Battery(-ies), Safety measuring lines with test probes, Operating manual

BE40 Clamp meter

Reliable, non-contact measurement of alternating current

With the clamp-on ammeter BE40 load current, AC voltage or continuity of circuits, fuses and contacts can be checked.

The current measurement is effected without contact via the electromagnetic field, which is why the electric circuit does not have to be interrupted for this method. Therefore, running systems, which cannot be switched off separately, can also be checked with the BE40.

Owing to the galvanic isolation, the measuring signal is also completely potential-free towards the variable to be measured.

The robust BE40 housing with injection-moulded soft rubber coating enables an ergonomic single-handed operation. The compact design with drop-shaped clamping jaws and illuminated display simplifies the application in industrial surroundings, confined control cabinets or inaccessible locations.
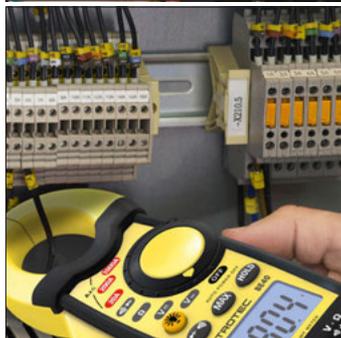
A few practical benefits

- 3 ¾-digit LCD display (max. display 1,999)
- Robust housing with injection-moulded rubber coating
- CAT III 600 V
- Measurement of alternating current up to 1,000 A
- Voltage measurement up to 600 V (AC/DC)
- Resistance measurement
- Continuity and diode test
- Automatic and manual range selection
- Measured value hold function and maximum value indication
- Backlit display
- Suitable for line diameters of up to 30 mm
- Automatic switch-off

Technical data

Article number		3.510.205.240
Display		LCD 3 3/4-digit
Measuring range (Accuracy)	Voltage	U_{DC} 0 V up to 600 V, U_{AC} 0 V up to 600 V (U_{DC} ±0.8 %, U_{AC} ±0.8 %)
	Current	I_{AC} 0 A up to 1,000 A (I_{AC} ±3 %)
	Resistance	0 Ω up to 20 MΩ (±1 %)
Measuring circuit category		CAT III (600 V)
Conformity		EN 61326, EN 61010-1, EN 61010-2-031, Degree of pollution 2
Functions		Maximum value display, Hold function, Automatic measuring range selection, Measurement of alternating current, DC voltage, AC voltage, Resistance, Automatic switch-off, Backlit display, Diode test, Continuity check
Power supply		2 x 1.5 V, AAA
Dimensions		229 mm x 48 mm x 80 mm
Weight		303 g
Scope of delivery		Measuring device, Battery(-ies), Bag/ Holster, Safety measuring lines with test probes, Operating manual

BE44 Clamp meter

Direct and alternating current measurements combined in one testing device

> TROTEC

Its professional equipment makes this clamp-on amperemeter a truly reliable and perfect measuring device for private users as well as for electrical engineers and service technicians. Additionally, the clamp meter is excellently suited for a large number of inspection and maintenance tasks in the motor vehicle production sector as well as in the workshop, for it can also be used for measuring direct current. With its clamp, the compact measuring device allows you to measure currents of up to 1,000 A in DC and AC mode. For this purpose, it detects AC voltages of up to 1,000 V and DC voltages of up to 750 V. This makes the testing device an interesting choice particularly for users in the automotive sector. The measuring device offers non-contact detection of alternating voltages for quick and easy testing of electrical conductors.

Moreover, the BE44 is able to measure resistances, frequency, duty cycle and capacity. These electrical measuring functions are completed by a diode test and a continuity test. The measurement results are shown on the > 3" backlit LCD display. Furthermore, the BE44 clamp meter convinces with features such as the HOLD function, a polarity and overload indicator as well as a battery-saving automatic switch-off function. An LED light integrated in between the two clamp jaws allows you to work safely even in unfavourable lighting conditions.
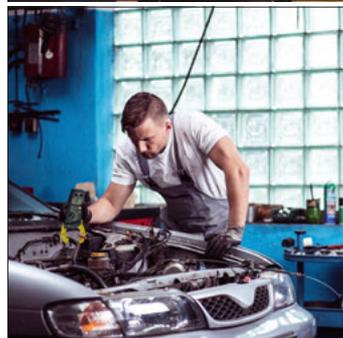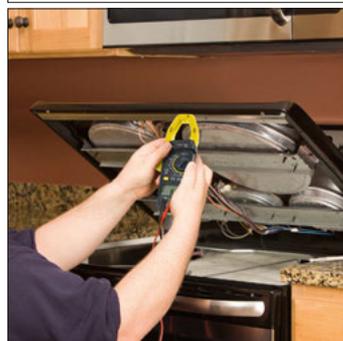
A few practical benefits

- 3 ⅚-digit LCD display (max. display 9,999)
- Robust housing
- CAT III 1,000 V / 750 V
- Measurement of alternating current up to 1,000 A
- Measurement of direct current up to 1,000 A
- Measurement of AC voltage up to 750 V
- Measurement of DC voltage up to 1,000 V
- Resistance measurement
- Continuity and diode test
- Duty cycle measurement
- Frequency measurement
- Polarity indicator
- Overload protection
- Automatic and manual range selection
- Hold function
- Backlit display
- Bar graph indicator
- Suitable for line diameters of up to 38 mm
- Automatic switch-off
- Battery status indication
- Integrated LED lamp

1.5V AAA 3x

Technical data

Article number		3.510.205.244
Display		LCD 3 5/6-digit
Measuring range (Accuracy)	Voltage	U_{DC} 6 V up to 1,000 V (6 V/60 V/600 V ±0.8 %, 1,000 V ±1 %), U_{AC} 6 V up to 750 V (6 V ±0.8 %, 60 V/600 V/750 V ±1.2 %)
	Current	I_{DC} 60 A up to 1,000 A (±3 %), I_{AC} 60 A up to 1,000 A (±2.5 %)
	Resistance	600 Ω up to 60 MΩ (600 Ω/6 k/60 kΩ/600 kΩ ±1 %, 6 MΩ ±1.5 %, 60 MΩ ±3 %)
	Frequency (pliers)	40 Hz up to 999.9 Hz (±1 %)
	Frequency (with test probes)	9.999 Hz up to 9.999 MHz (9.99 Hz/99.99 Hz/999.9 Hz/9.999 kHz/ 99.99 kHz/999.9 kHz ±1 %)
	Duty cycle	5 % up to 95 % (±2 %)
	Capacity	40 nF up to 4,000 µF (40 nF/400 nF/4 µF/40 µF/400 µF ±5 %)
Measuring circuit category		CAT III (1,000 V)
Conformity		EN 61010-1, Degree of pollution 2
Functions		Hold function, Automatic measuring range selection, Indication when exceeding the measuring range, Measurement of direct current, alternating current, DC voltage, AC voltage, capacity, frequency, duty cycle and resistance, Automatic switch-off, Backlit display, Diode test, Continuity check, Battery status indication, Integrated LED lamp
Power supply		3 x 1.5 V, AAA
Dimensions		243 mm x 87 mm x 44 mm
Weight		372 g
Scope of delivery		Measuring device, Battery(-ies), Bag/ Holster, Safety measuring lines with test probes, Operating manual

BE47 Digital multimeter

Ergonomically shaped multifunction measuring meter

With its seven measuring functions and its ergonomic design, the multifunction measuring meter BE47 offers manifold possibilities of use and is thus perfectly suited for the most diverse fields of application in the hobby and do-it-yourself sector. Moreover, the BE47 complies with measuring circuit category CAT II 600 V or. CAT III 300 V and offers functions for diode, battery and acoustic continuity testing, as well as a battery state indicator.

The protective rubber holster, which can be detached for cleaning, effectively protects the device from damage – even in rough construction site surroundings. The additional fold-out foot integrated in the rubber holster makes the handling of the BE48 noticeably easier and complements the practice-oriented features of this multifunction measuring meter. Due to its attractive value-for-money ratio, the purchase of this multimeter is an interesting supplement particularly for ambitious do-it-yourselfers.
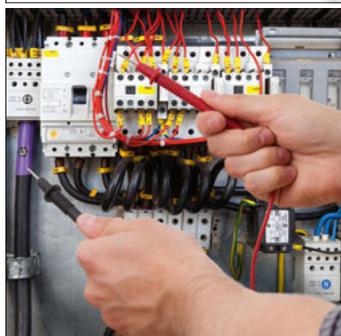
A few practical benefits

- Robust multifunction measuring meter with protective rubber holster
- CAT II 600 V, CAT III 300 V
- Diode test
- Battery test (9 V, 1.5 V)
- Acoustic continuity test
- Battery status indicator

Technical data

Article number		3.510.205.247
Display		LCD 3 1/2-digit
Measuring range (Accuracy)	Voltage	U_{DC} 0.001 V up to 600 V, U_{AC} 0.1 V up to 600 V (U_{DC} ±1 %, U_{AC} ±1.2 %)
	Current	I_{DC} 0.01 A up to 10 A (I_{DC} ±2.0 %)
	Resistance	0 Ω up to 2,000 kΩ (±0.8 %)
Measuring circuit category		CAT II (600 V), CAT III (300 V)
Conformity		EN 61326-1, EN 61326-2-2, Degree of pollution 2
Type of protection		IP50
Functions		Continuity check, Diode test, Acoustic continuity check, Battery status indication, Battery test (9 V, 1.5 V)
Power supply		1 x 9 V block battery
Dimensions		122 mm x 40 mm x 61 mm
Weight		260 g
Scope of delivery		Measuring device, Battery(-ies), Safety measuring lines with test probes, Operating manual

9 V E

1x

BE50 Digital multimeter

Fully equipped multifunction measuring meter

The BE50 is a digital multimeter, like one can only wish for, since it offers you spectacular possibilities of use for more than just electrical variables:

With altogether eleven measuring functions, automatic range selection, temperature measurement with type K contact sensor, hold function and display illumination this measuring device is suited for manifold fields of application in the industrial or semi-professional sector.

The fully equipped, practice-oriented BE50 with IP67 type of protection impresses with excellent quality finish and robustness:

Measuring device and measuring lines are doubly insulated and conform to protection class II. Moreover, this digital multimeter is extremely impact-, dust- and water-proof – and thus optimally suited for tough everyday usage!
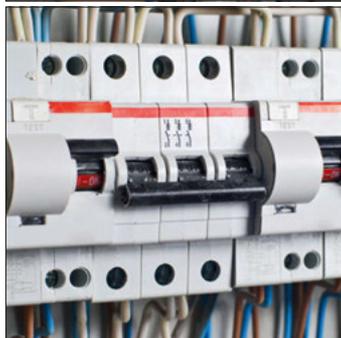
A few practical benefits

- Digital multifunction measuring meter with eleven measuring functions
- Particularly hardwearing and powerful
- Automatic range selection
- CAT III 1,000 V / CAT IV 600 V
- Impact-proof housing
- IP67 type of protection – dust- and water-proof
- Function for non-contact voltage detection
- Insulation protection class II for measuring device and measuring lines
- Temperature measurement with type K contact sensor
- Hold function
- Backlit display
- Automatic switch-off

Technical data

Article number		3.510.205.250
Display		LCD 4-digit
Measuring range (Accuracy)	Voltage	U_{DC} 0.1 V up to 1,000 V, U_{AC} 0.1 mV up to 1,000 V (U_{DC} ±1.2 %, U_{AC} ±2 %)
	Current	I_{DC} 0.0001 A up to 10 A, I_{AC} 0 A up to 10 A (I_{DC} ±1.5 %, I_{AC} ±2 %)
	Capacity	10 pF up to 100 µF (±3 %)
	Resistance	0.1 Ω up to 10 MΩ (±1.2 %)
	Frequency	1 mHz up to 10 MHz (±1.2 %)
	Temperature	-20 °C up to 760 °C (±3.0 %; ±5 °C)
	Duty cycle	0.1 % up to 99.9 % (1.2 %)
Measuring circuit category		CAT III (1,000 V), CAT IV (600 V)
Safety		EN 61326, EN 61010-1, EN 61010-2-031
Type of protection		IP67
Functions		Continuity check, Diode test, Hold function, Automatic measuring range selection, Automatic switch-off, Backlit display, Type K contact temperature measurement, Visual alarm, Battery status indication, Duty cycle, Non-contact detection of AC voltage
Power supply		1 x 9 V block battery
Dimensions		182 mm x 55 mm x 82 mm
Weight		320 g
Scope of delivery		Measuring device, Battery(-ies), Safety measuring lines with test probes, Contact temperature sensor type K, Operating manual

9 V E

1 x

BO21 Videoscope

Quick visual inspections

The BO21 is a universally applicable video inspector for quick endoscopic visual inspections in poorly accessible areas or hollows.

Integrated in the tip of the bendable gooseneck probe is a water-proof colour camera with adjustable illumination.

The powerful quad LED illumination of the easy-to-handle BO21 enables perfectly illuminated inspection images in every situation, displayed on the colour LCD display of the BO21 with excellent brilliance.

During visual inspection the results can additionally be observed on an external display via the video output.

Thanks to the 180° image rotation function, inspection views in an almost upright position are possible even in areas full of nooks and crannies.

Practical detail: Auxiliary tools are included in the scope of delivery which can be used to expand the BO21's range of applications, e.g. as recovery instrument for loose parts or for taking samples.

A few practical benefits

- Immediately ready for use – just switch it on and get started
- Robust videoscope probe with fixed-focus lens and water-proof camera head (IP67 type of protection)
- High-intensity quad LED illumination with dimmer
- 180° image rotation function
- Bendable, inherently stable gooseneck probe
- Mobile, battery-supplied operation
- Automatic switch-off
- Inclusive of side-view mirror, hook and magnet attachment
- Different exchangeable probes optionally available as accessories

Technical data

Article number	3.510.009.121
Display	TFT, Colour, 2.4 inch LCD (480 x 234 pixels)
Probe / Camera head	Ø = 8 mm / 17 mm, L = 1,000 mm
Focussing range	50 mm up to 150 mm
Type of illumination	Quad LED
Zoom	2x
Operating temperature	-10 °C up to 50 °C
Functions	Zoom function (2x), Image rotation function 180°, Brightness control, Automatic switch-off, Bendable, inherently stable gooseneck probe, Fixed focus lens
Power supply	4 x 1.5 V, AA
Dimensions	207 mm x 60 mm x 80 mm
Weight	800 g
Scope of delivery	Measuring device, Battery(-ies), Mirror attachment, 1 m probe / Ø 17 mm, Hook attachment, Magnetic adapter, Operating manual
Optional accessories	BO21 E 17,0-1000 Extension (3510009270) BO21 P 17,0-1000 Probe (3510009269) BO21 P 4,5-1000 Probe (3510009210) BO21 P 4,5-2000 Probe (3510009212) BO21 P 4,5-3000 Probe (3510009220) BO21 P 6,0-1000 Probe (3510009230) BO21 P 6,0-3000 Probe (3510009240) BO21 P 9,0-1000 Probe (3510009250) BO21 P 9,0-3000 Probe (3510009260)

BO26 Videoscope

Quick endoscopic photo or video documentation

The BO26 enables the visual inspection even in poorly accessible locations which for the purpose of documentation can not only be saved in form of photos but also as video sequences and can be watched via an external TV screen or transferred to a PC, if required.

The 360° image rotation function, the supplied side-view mirror attachment and the powerful quad LED illumination with variable brightness ensure significant photos and videos in every inspection environment.

Despite its versatility the BO26 is characterized by uncomplicated handling:

A multilingual on-screen menu and many clever parameters such as exposure or focusing of the target area, which are predefined or integrated directly in the device's CMOS sensor, promote a simple, intuitive operation.

Practical detail: Auxiliary tools are included in the scope of delivery which can be used to expand the BO26's range of applications, e.g. as recovery instrument for loose parts or for taking samples.
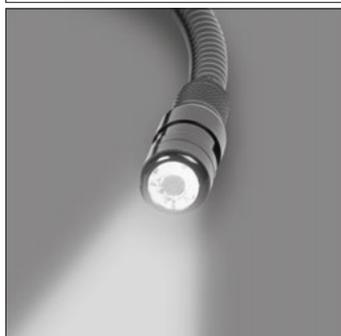
A few practical benefits

- Light, easy-to-handle compact device with semi-rigid gooseneck probe
- Memory function to take individual photographs or record complete video sequences
- Robust videoscope probe with fixed-focus lens and water-proof camera head (IP67 type of protection)
- 3.5-inch LCD colour screen
- High-intensity quad LED illumination with dimmer
- Intuitive user navigation through multilingual on-screen menu
- Multiple image rotation function
- Automatic switch-off
- Inclusive of side-view mirror, hook and magnet attachment
- Different exchangeable probes optionally available as accessories

3.7 V BATTERY LI-ION 18650   1x

Technical data

Article number	3.510.009.126
Display	TFT, Colour, 3.5 inch LCD (320 x 240 pixels)
Probe / Camera head	Ø = 8 mm / 17 mm, L = 1,000 mm
Focussing range	50 mm up to 150 mm
Type of illumination	Quad LED
Zoom	3x
Operating temperature	0 °C up to 50 °C
Functions	Zoom function (3x), Image rotation function 4 x 90°, Brightness control, Automatic switch-off, Bendable, inherently stable gooseneck probe, Fixed focus lens, Video recording, Photo recording, Audio recording, Photo memory with date and time, Shooting and saving individual images and complete video sequences, Multilingual on-screen menu
Power supply	1 x 3.7 V / 1,800 mA Li-Ion battery integrated
Dimensions	255 mm x 85 mm x 110 mm
Weight	840 g
Scope of delivery	Measuring device, 3.7 V Li-Ion battery, Transport case, Mirror attachment, Magnetic adapter, Hook attachment, 1 m probe / Ø 17 mm, RCA cable, Power adapter, USB cable, Operating manual
Optional accessories	BO26 E 17,0-1000 Extension (3510009271) BO26 P 17,0-1000 Probe (3510009268) BO26 P 4,5-1000 Probe (3510009215) BO26 P 4,5-2000 Probe (3510009211) BO26 P 4,5-3000 Probe (3510009221) BO26 P 6,0-1000 Probe (3510009231) BO26 P 6,0-3000 Probe (3510009241) BO26 P 9,0-1000 Probe (3510009251) BO26 P 9,0-4000 Probe (3510009261)

Trotec measuring devices WP-Series with appSensor

Measurement data management with wireless connection for mobile devices

One app, plenty of measuring devices, countless possibilities MultiMeasure Mobile for appSensors

Trotec appSensors are compact precision measuring devices with high-quality sensors. Designed in a way to save space and energy, they have neither display unit nor evaluation electronics – data analysis and operation are realized almost entirely by means of the smartphone.

Combined with the free app MultiMeasure Mobile this measuring device concept offers many compelling advantages. All appSensors are automatically identified by the app and can be connected quickly and easily to a mobile terminal device using wireless technology.

For individual or non-stop measuring operations, MultiMeasure Mobile provides manifold display options for the indication of measured values: numerical, in form of a chart or as a combination of several measurement parameters.

Using the integrated customer management function all of the measured data can be assigned to projects and clients via the app. The built-in report function further facilitates a quick on-site documentation. All data can be shared with customers or colleagues and even be synchronized via the MultiMeasure Cloud using an existing PC installation of MultiMeasure Studio Professional.

In addition to typical professional analysis options and the smart measurement data linkage of the parallel-connected appSensors the app MultiMeasure Mobile offers a still greater number of innovative functions such as matrix measurements that are linked to photos: Just take a photo, mark the position of the mea-suring point on it, carry out the measurement and then save it all.

All measuring points and data remain linked to the photo for later analysis and can also be prepared as matrix representation e.g. to indicate the distribution of moisture or heat.

A few practical benefits

- Development, design, production: 100 % Trotec
- Professional measuring system consisting of individual appSensors centrally controlled via app
- MultiMeasure Mobile – free app for the operation, evaluation and measured value indication of all connected measuring devices
- appSensors – compact, professional measuring devices without display but with high-quality measuring sensors and smartphone control
- The appSensor product range comprises various measuring devices for different measuring applications and is permanently enhanced
- Analysis tools, report generating function and customer management are already integrated in the app ready for use
- Simple data export option, also convenient measurement data synchronization via cloud to a PC with installed MultiMeasure Studio Professional

MultiMeasure Mobile – free download

The Trotec app MultiMeasure Mobile turns your mobile terminal device into a multifunctional measurement data management tool.
The operation is as simple and intuitive as the installation: Simply download MultiMeasure Mobile for free onto your mobile device – it is available for iOS and Android.

MultiMeasure Mobile and appSensors

turn your smartphone into a multifunctional measuring station

All appSensors at a glance:
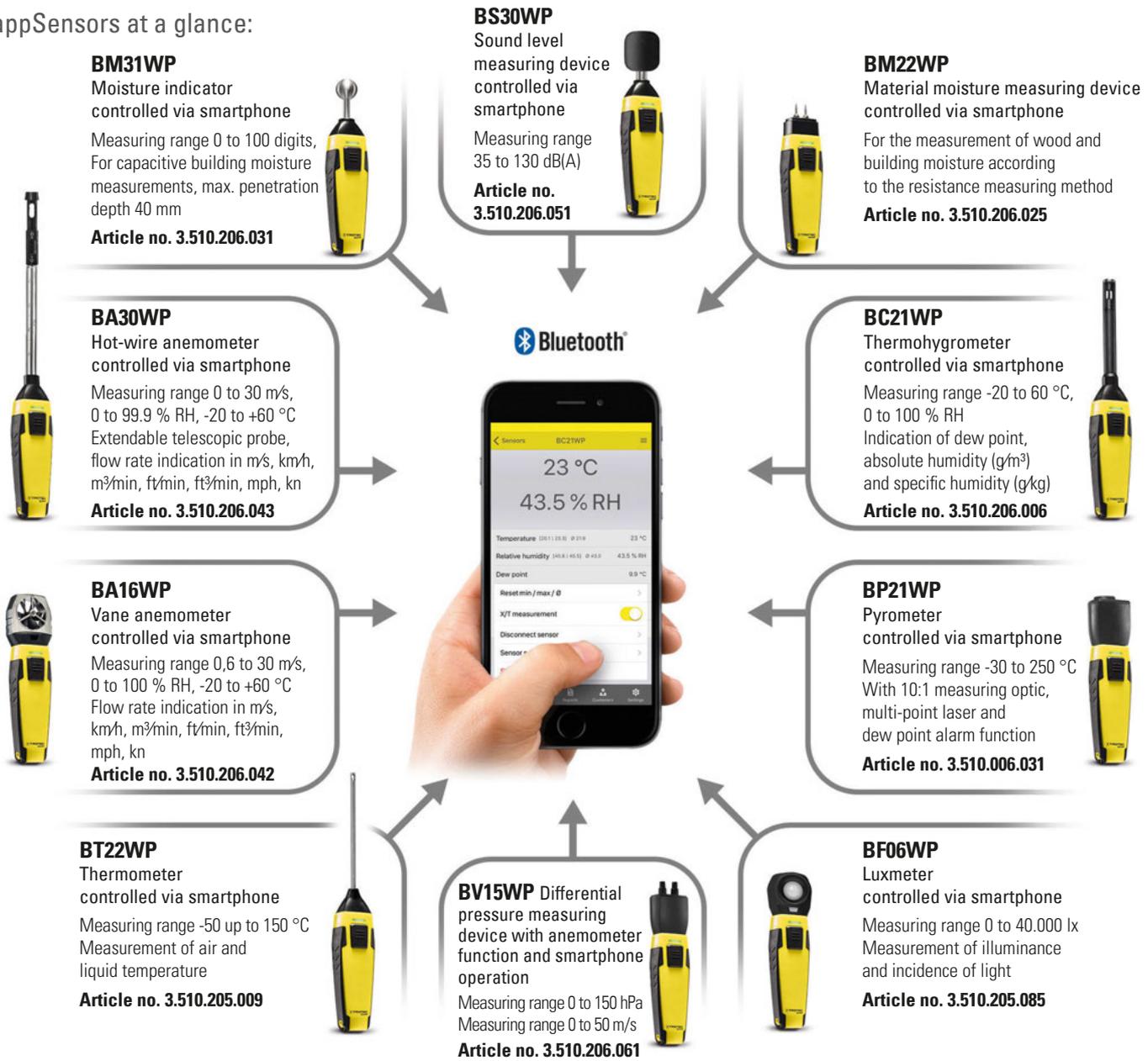
BM31WP

Moisture indicator controlled via smartphone

Measuring range 0 to 100 digits, For capacitive building moisture measurements, max. penetration depth 40 mm

Article no. 3.510.206.031

BS30WP

Sound level measuring device controlled via smartphone

Measuring range 35 to 130 dB(A)

Article no. 3.510.206.051

BM22WP

Material moisture measuring device controlled via smartphone

For the measurement of wood and building moisture according to the resistance measuring method

Article no. 3.510.206.025

BA30WP

Hot-wire anemometer controlled via smartphone

Measuring range 0 to 30 m/s, 0 to 99.9 % RH, -20 to +60 °C Extendable telescopic probe, flow rate indication in m/s, km/h, m³/min, ft/min, ft³/min, mph, kn

Article no. 3.510.206.043

Bluetooth®

23 °C
43.5 % RH

BC21WP

Thermohygrometer controlled via smartphone

Measuring range -20 to 60 °C, 0 to 100 % RH Indication of dew point, absolute humidity (g/m³) and specific humidity (g/kg)

Article no. 3.510.206.006

BA16WP

Vane anemometer controlled via smartphone

Measuring range 0,6 to 30 m/s, 0 to 100 % RH, -20 to +60 °C Flow rate indication in m/s, km/h, m³/min, ft/min, ft³/min, mph, kn

Article no. 3.510.206.042

BP21WP

Pyrometer controlled via smartphone

Measuring range -30 to 250 °C With 10:1 measuring optic, multi-point laser and dew point alarm function

Article no. 3.510.006.031

BT22WP

Thermometer controlled via smartphone

Measuring range -50 up to 150 °C Measurement of air and liquid temperature

Article no. 3.510.205.009

BV15WP Differential pressure measuring device with anemometer function and smartphone operation

Measuring range 0 to 150 hPa Measuring range 0 to 50 m/s

Article no. 3.510.206.061

BF06WP

Luxmeter controlled via smartphone

Measuring range 0 to 40.000 lx Measurement of illuminance and incidence of light

Article no. 3.510.205.085

MultiMeasure Mobile – all of the app's advantages at one glance:

- Automatic identification of appSensors
- Simultaneous operation of several appSensors
- Quick and intuitive navigation
- Numerical measured value indication or else in form of a chart / matrix
- Integrated report function for the documentation directly on site
- PDA function for the organization of measurement data and documents
- Customer management already integrated
- Manifold analysis options directly in the app
- Storage of measured values linked to photos
- Matrix measurements, also linked to photos
- Complete data synchronization with MultiMeasure Professional via cloud

Function for the automatic synchronization via the MultiMeasure Cloud

or CSV-export

MultiMeasure Studio Professional

It is not necessary to install MultiMeasure Studio Professional on a PC in or to use the appSensors. All you need for the application of the measuring devices is a mobile terminal device with MultiMeasure Mobile.

However, as a user of the Studio version you'll further benefit from the smart interaction of the two applications. All values and measurement series incl. photos and the corresponding customer data can be imported to MultiMeasure Studio Professional from the app and then be further processed and archived there!

All of Trotec's appSensors offer the following advantages:

appSensor®

- Professional sensors for precise measuring results
- Foolproof connection of the app via Bluetooth with visual connection confirmation by means of an LED at the device
- Wireless control of the measuring devices and display of data via app
- Simple measured value detection even at remote locations since the values do not have to be read directly from the measuring device
- Additional determination and indication of minimum, maximum and average values
- Hold, logging and alarm functions
- Practice-optimized German industrial design – protected design patent

Loss of control? Not with Trotec.

There is nothing you can not measure. Not with Trotec. Do not leave your success to chance, but to the measuring devices of the ComfortControl Series.

Whether at home, in the office, at your hobby or in the workshop. A perfect outcome is often determined by a tad more accuracy.

The right partner for every measurement. In your hand. Easy to use. And always precise.

Measuring is success.
Trotec ComfortControl.

TÜV SÜD
ISO 9001

> TROTEC