

CAPBs®





From a simple measuring instrument to an all-rounder with CAPBs®



Seda



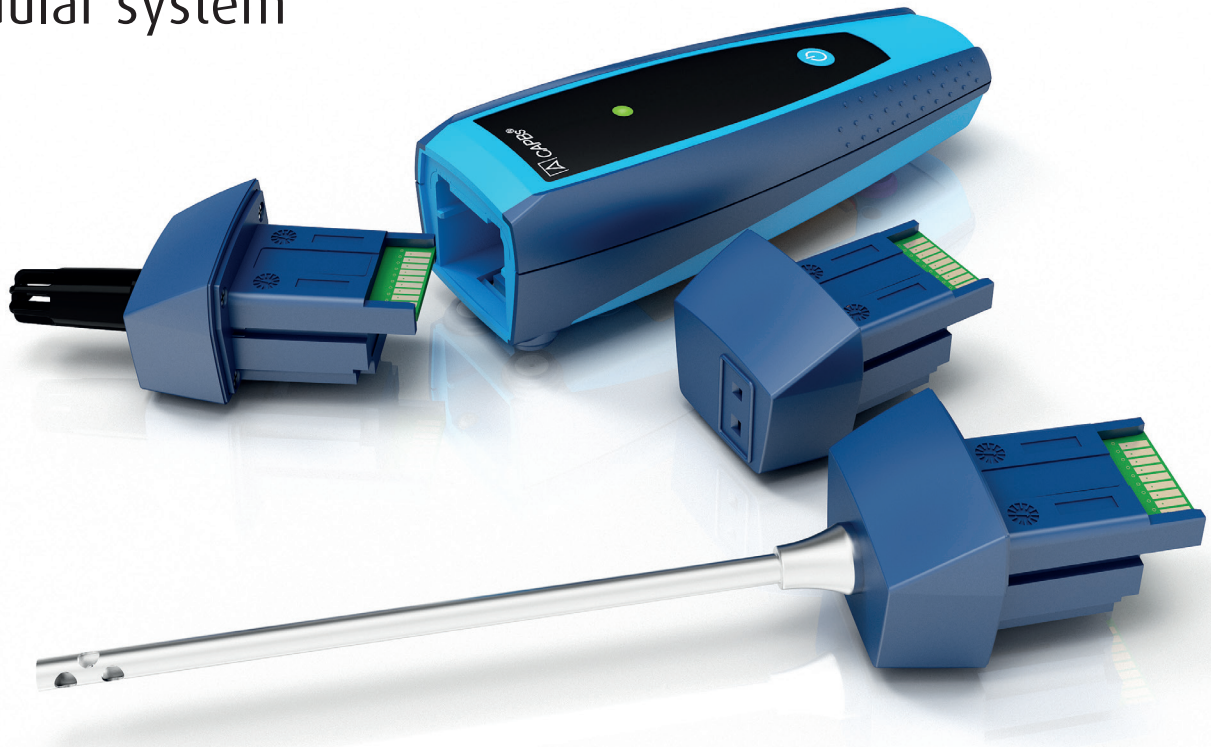
BEI GASGERUCH

-  Öffnen Sie alle Fenster und Türen!
Für Durchzug sorgen!
-  Vermeiden Sie offenes Feuer!
Nicht rauchen! Kein Feuerzeug, keine
elektrischen Schalter, Stecker,
Klingeln und kein Telefon benutzen!
-  Warnen Sie die anderen Hausbewohner
und verlassen Sie das Gebäude!
Auch schwachen Gasgeruch und
Gasgeruch auf der Straße melden!
-  Benachrichtigen Sie die Feuerwehr!



Universal. Accurate. Flexible.

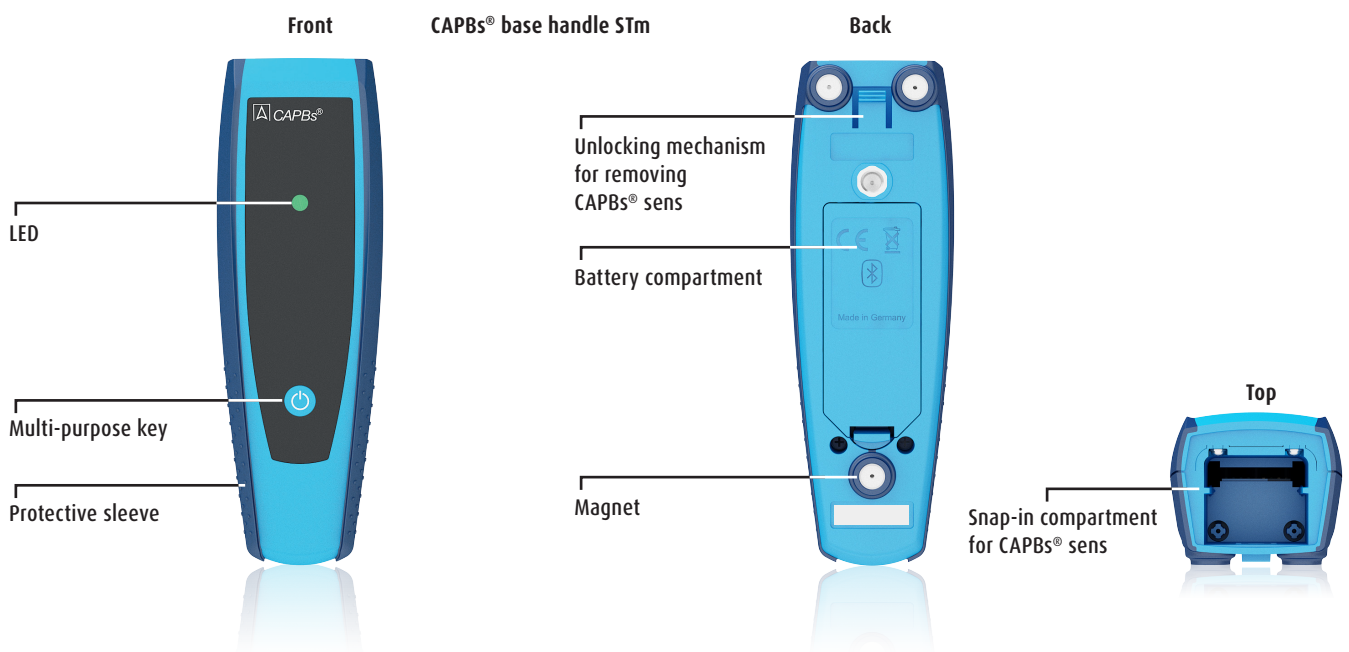
Modular system



The new CAPBs® constitute a modular system consisting of the universal base handle CAPBs® STm and an application-specific sensor module CAPBs® sens for a wide variety of measured variables such as pressure, temperature, humidity. The base handle CAPBs® STm holds the various sensor modules CAPBs® sens. The base handle can be combined with any sensor module to form a complete CAPBs® measuring unit. Each measuring unit can transmit the measured data immediately and without a delay to a BlueLine measuring instrument via Bluetooth® Smart and, via a free app for different operating systems, also to a smartphone or tablet. This results in a vast array of measuring units – all tasks of, for example, a heating system engineer or a chimney sweep can be performed with a single measuring instrument.


A multi-purpose key is located at the front; it is used for switching the unit on and off, for zero adjustment, for activating the Hold mode or for starting the data logger function. The multi-colour LED displays the status of the CAPBs® measuring unit by means of different colours and flashing frequencies. For example, BLUE means "Establishing Bluetooth® Smart connection" or GREEN "Connected to an evaluation unit". The base handle also contains a device which indicates excess concentrations or limit values by means of audible signals with different frequencies.






The ergonomic base handle CAPBs® STm is equipped with three magnets at the rear side. The battery compartment and the unlock button for exchanging the CAPBs® sens are also located at the rear. The snap-in mechanism on top of the base handle is standardised for all CAPBs® sens.



Suitable sensor modules for any application

CAPBs® overview

						
	Humidity/ temperature	Gas leak detection	Pressure measurement	Pressure measurement	Pressure measurement	Pressure measurement
CAPBs®	RH 80	GS 10	PS 10 (20 mbar)	PS 20 (180 mbar)	PS 40/41 (6 bar)	PS 60/61 (20 bar)
Application examples	Monitoring or humidity in closed rooms	Detection of leaking flammable gases (e.g. methane)	Measurement of ultra-fine pressure (Pitot measure- ment)	Check of connection and flow pressure in gas fired heating systems	Tightness and load test of gas lines	Stress pressure test at pipe systems

				
Pressure transmitter	Pressure/temperature	Air quality	Temperature	Flow rate/temperature
PT 70	FP 10	AQ 20	TK 10 – TK 50	FlowTemp® ST
Inspection of water pipes and oil pressure tests	Determination of flow rate (4 Pa test)	Fast and reliable detection of VOCs (volatile organic compounds) and CO ₂	Determination of temperatures on surfaces, in liquids and in gases	Function tests of drinking water heaters and connected pipe systems

CAPBs®

Base handle STm

Description

Universal base handle for all CAPBs® sensor modules. Ergonomic handle with three magnets and battery compartment at the rear of the housing. Multi-colour LED and multi-purpose key on the front. With integrated device for audible signals and Bluetooth® Smart module.



Technical specifications

Dimensions (H x W x D):	140 x 45 x 39 mm
Weight:	113 g
Supply voltage:	2 x 1.5 V AAA alkaline batteries or 2 x AAA NiMH batteries (1.2 V / 900 mAh)
Interface:	Bluetooth® Smart

DG: H, PG: 4	Part no.
CAPBs® base handle STm	M091000017



CAPBs®

Humidity/temperature RH 80

Description

Sensor module for measurement of temperature and relative humidity in ambient air.

Application

- Checks of the climatic conditions in rooms
- Mould prevention

Technical specifications

Dimensions (H x W x D):	82 x 42 x 35 mm
Weight:	51 g
Interface:	Bluetooth® Smart
Measuring ranges:	0 / 100 % rH -40 / +80 °C
Accuracy:	±2 % rH ±1 digit ±0.5 °C ±1 digit
Resolution:	0.1 % rH 0.1 °C



DG: H, PG: 4	Part no.
CAPBs® base handle STm	M091000017
Humidity CAPBs® sens RH 80	M090111210

CAPBs®

Gas leak detection GS 10

Description

Sensor module for fast and reliable gas leak detection. The flexible probe allows for use in spaces difficult to access. The gas concentration is displayed by the evaluation unit in ppm; the CAPBs® measurement unit provides visual and audible signals. The alarm threshold can be adjusted as required. The base calibration for methane

ensures that a broad range of flammable gases can be detected. The anti-poisoning protection function for the sensor ensures a service life.

Application

- Gas leak detection
- Detection of gas leaks (flammable gases) in gas pipes as well as connection pieces and fittings, gas meters, gas burners and gas tanks

Technical specifications

Dimensions (H x W x D):	290 x 42 x 35 mm
Weight:	51 g
Interface:	Bluetooth® Smart
Measuring range (methane):	0 / 2,000 ppm
Accuracy:	±200 ppm
Resolution:	10 ppm



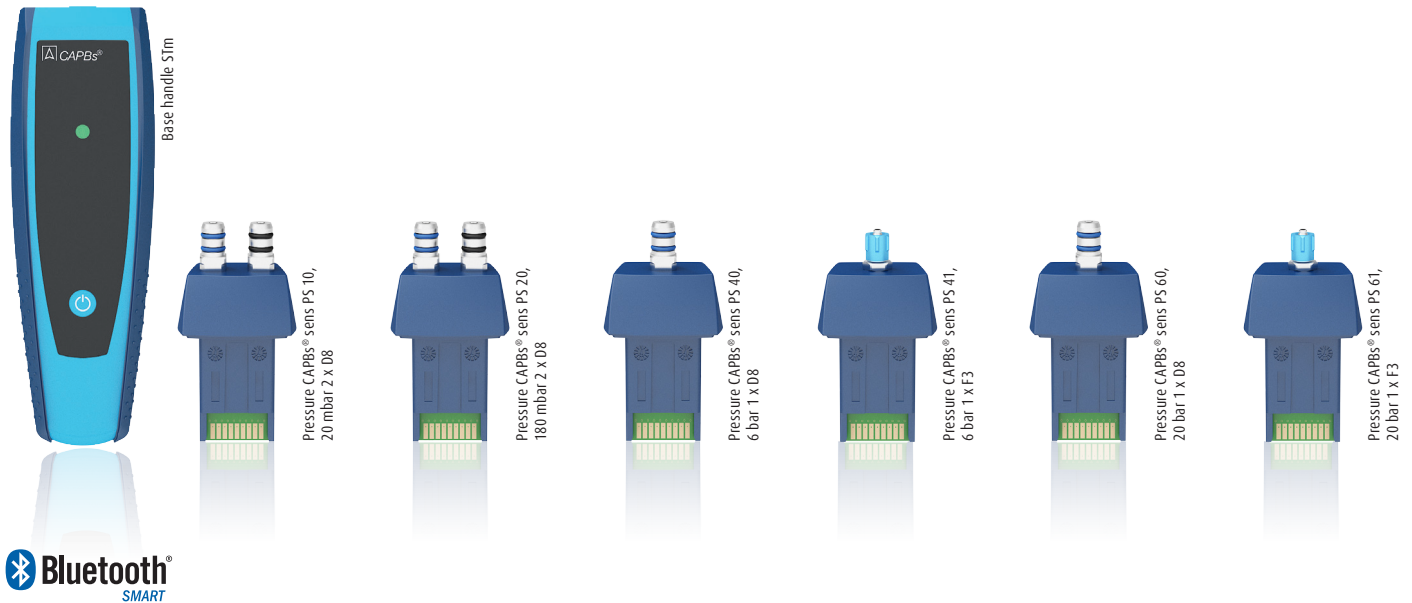
DG: H, PG: 4	Part no.
CAPBs® base handle STm	M091000017
Gas leak detection CAPBs® sens GS 10	M090131410





CAPBs® Pressure PS

Description

Sensor module for measurement of pressure, vacuum and differential pressure of non-corrosive, gaseous, dry media. The pressure sensors are available in four measuring ranges from 20 mbar to 20,000 mbar. Manual shifting of the zero point allows you to double the measuring

range. The high-quality sensors are extremely accurate, orientation-independent and temperature-compensated.



				
	PS 10 (20 mbar)	PS 20 (180 mbar)	PS 40 / PS 41 (6 bar)	PS 60 / PS 61 (20 bar)
Application				
Differential pressure	•	•		
Pressure loss	•	•	•	•
Connection pressure/flow pressure		•	•	
Flow rate	•	•		
Stress pressure test				•
4 Pa test	•			
Test of gas pipes				
Tightness test		•	•	
Test of drinking water systems				
Tightness test		•	•	
Strength test			•	•
Test of heating systems				
Tightness test			•	•
Test of solar systems				
Pressure test		•	•	•
Strength test			•	•
Test of oil pipes				
Tightness test		•	•	
Pressure test			•	•
Technical specifications				
Dimensions (H x W x D):	74 x 42 x 35 mm	74 x 42 x 35 mm	74 x 42 x 35 mm	74 x 42 x 35 mm
Weight:	34 g	34 g	30 g	26 g
Interface:	Bluetooth® Smart	Bluetooth® Smart	Bluetooth® Smart	Bluetooth® Smart
Measuring range:	-20 / +20 mbar 0.5 / 50 m/s	-180 / +180 mbar 0.5 / 50 m/s	-1 / +6 bar	-1 / +20 bar
Accuracy:	±0.003 mbar 0.5 % displayed value ±1 digit	±0.03 mbar 0.5 % displayed value ±1 digit	±0.3 mbar 0.5 % displayed value ±1 digit	±1 mbar 0.5 % displayed value ±1 digit
Resolution:	0.001 mbar 0.1 m/s	0.01 mbar (< 99.99) 0.1 mbar (> 100.0) 0.1 m/s	0.1 mbar (< 999.99) 1 mbar (> 1,000)	0.1 mbar (< 999.99) 1 mbar (> 1,000)
Hose connection:	Ø 8 mm	Ø 8 mm	Ø 8 mm or Ø 3 mm (Festo)	Ø 8 mm or Ø 3 mm (Festo)

DG: H, PG: 4	Part no.
CAPBs® base handle STm	M091000017
Pressure CAPBs® sens PS 10, 20 mbar 2 x D8	M090050110
Pressure CAPBs® sens PS 20, 180 mbar 2 x D8	M090010110
Pressure CAPBs® sens PS 40, 6 bar 1 x D8	M090082910
Pressure CAPBs® sens PS 41, 6 bar 1 x F3	M090083010
Pressure CAPBs® sens PS 60, 20 bar 1 x D8	M090102910
Pressure CAPBs® sens PS 61, 20 bar 1 x F3	M090103010

CAPBs®

Pressure transmitter PT 70

Description

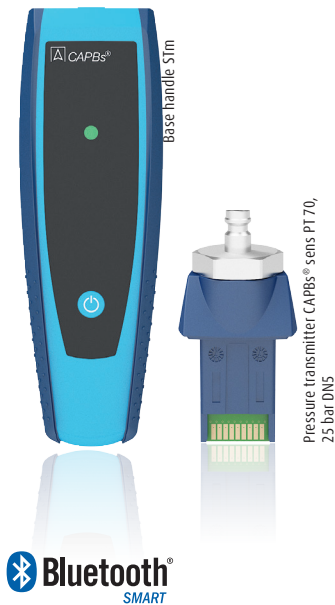
Pressure transmitter for measurements in liquids and corrosive media.

Application

- Pressure tests of oil pipes
- Tightness test/strength test of drinking water installations
- Pressure loss test
- Pressure test at pipe systems
- Stress pressure test at pipe systems

Technical specifications

Dimensions (H x W x D):	76 x 42 x 35 mm
Weight:	55 g
Interface:	Bluetooth® Smart
Measuring range:	0 / +25 bar
Accuracy:	0.5 % of full scale ±1 digit
Resolution:	0.1 bar
Hose connection:	Plug connection DN 5



DG: H, PG: 4	Part no.
CAPBs® base handle STm	M091000017
Pressure transmitter CAPBs® sens PT 70, 25 bar	M090142810



CAPBs®

Pressure and temperature FP 10

Description

Sensor module for simultaneous, continuous measurement of temperature and pressure. The CAPBs® features a barometric pressure sensor and allows for convenient measurement with a stable zero point.

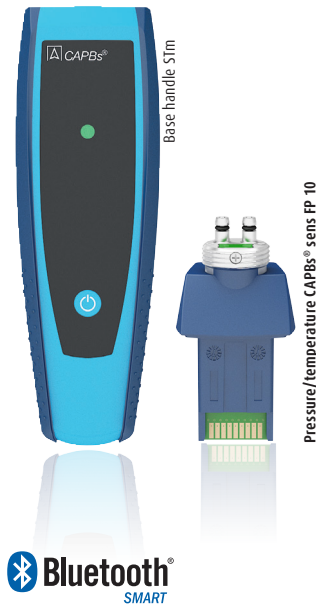
Application

- Flow rate measurement (Pitot tube)
- Barometric pressure
- Surface loss
- 4 Pa measurement (hose kit)

Technical specifications

Dimensions (H x W x D):	74 x 42 x 35 mm
Weight:	33 g
Interface:	Bluetooth® Smart
Measuring ranges:	-20 / +20 mbar 0.2 / 20 m/s -50 / +600 °C
Accuracy:	±0.003 mbar 0.5 % displayed value ±1 digit ±0.1 m/s or ±5 % displayed value ±1.5 °C
Resolution:	0.0001 mbar / 0.01 m/s / 0.1 °C

DG: H, PG: 4	Part no.
CAPBs® base handle STm	M091000017
Pressure/temperature CAPBs® sens FP 10	M090053210



CAPBs® air quality AQ 20

Description

Sensor module for fast and reliable detection of VOCs (volatile organic compounds) and CO₂ in ambient air. The gas concentration is displayed by the evaluation unit as CO₂ (ppm) and TVOC (ppb); the CAPBs® measurement unit provides visual and audible signals. The alarm threshold can be adjusted as required.

Application

- Evaluation of the air quality in rooms
- Inspection of filters
- Redundant measurement in conjunction with PID measurements
- Evaluation of the air quality in closed rooms (e.g. in schools, offices, conference rooms, libraries, etc)

Technical specifications

Dimensions (H x W x D):	58 x 42 x 35 mm
Weight:	30 g
Interface:	Bluetooth® Smart
Measuring ranges:	450 / 2,000 ppm CO ₂ equivalent (relative) 125 / 500 ppb TVOC equivalent
Resolution:	1 ppb (TVOC) / 1 ppm (CO ₂)

DG: H, PG: 4	Part no.
CAPBs® base handle STm	M091000017
Air quality CAPBs® sens AQ 20	M090120010



CAPBs®

Temperature TK 10, type K

Description

Temperature transmitter with standardised temperature socket type K. This allows for the connection of all type K two-pole thermocouples and temperature probes.

Application

- Temperature measurement

Technical specifications

Dimensions (H x W x D):	58 x 42 x 35 mm
Weight:	22 g
Interface:	Bluetooth® Smart
Measuring range:	-50 / +1,150 °C (depends on thermocouple used)
Accuracy:	±1.5 °C
Resolution:	0.1 °C



DG: H, PG: 4	Part no.
CAPBs® base handle STM	M091000017
Temperature CAPBs® sens TK 10, type K	M090000810



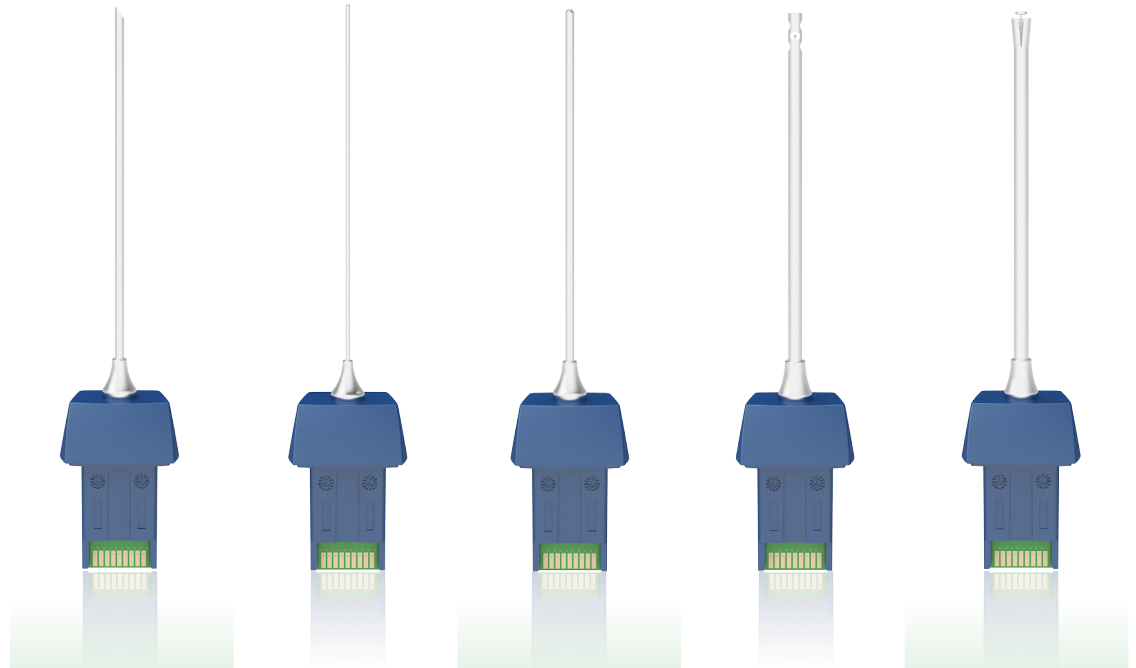
CAPBs® Temperature TK

Description

Sensor module for measurement of the temperature on surfaces, in liquids, soft plastic media or in air with different, application-specific temperature probes.

Application

- Temperature measurement



Technical specifications

	Spike probe TK 20	Liquid probe TK 30	Liquid probe TK 35	Air probes TK 40	Surface probe TK 50
Dimensions (H x W x D):	186 x 42 x 35 mm	187 x 42 x 35 mm	190 x 42 x 35 mm	187 x 42 x 35 mm	187 x 42 x 35 mm
Weight:	32 g	28 g	32 g	32 g	34 g
Interface:	Bluetooth® Smart	Bluetooth® Smart	Bluetooth® Smart	Bluetooth® Smart	Bluetooth® Smart
Measuring ranges:	-50 / +800 °C	-50 / +1,100 °C	-50 / +1,100 °C	-50 / +400 °C	-50 / +400 °C
Accuracy:	±1.5 °C 1 % displayed value	±1.5 °C 1 % displayed value	±1.5 °C 1 % displayed value	±1.5 °C 1 % displayed value	±1.5 °C 1 % displayed value
Resolution:	0.1 °C	0.1 °C	0.1 °C	0.1 °C	0.1 °C

DG: H, PG: 4	Part no.
CAPBs® base handle STM	M091000017
Insertion probe CAPBs® sens TK 20 D3	M090002210
Liquid probe CAPBs® sens TK 30 D1.5	M090002310
Liquid probe CAPBs® sens TK 35 D3	M090002410
Air probe CAPBs® sens TK 40 D4.7	M090002510
Surface probe CAPBs® sens TK 50 D4	M090002610

CAPBs®

Flow rate and temperature measurement FlowTemp® ST



Description

Sensor module for continuous, simultaneous determination of flow rate (l/min) and temperature (°C) in water applications. The flow rate is measured with a high-precision capacitance flow sensor, the temperature with a PT1000 module. Both sensors are integrated in a robust housing made of high-quality plastic with degree of protection IP 67. Thanks to the compact design, measurements at low water fittings are very convenient. The device is tested as per TÜV report S1217-00/15. The measured data is transmitted to a BlueLine measuring instrument or a mobile device via the integrated Bluetooth® Smart interface.

Application

- Verification of performance key "NL" of accumulator and continuous capacity
- Function checks of decentralised drinking water heaters
- Checking the output capacity of heat exchangers
- Inspection of heat exchangers
- Function tests of circulation lines
- Inspection of fittings (minimum volume flow)
- Determination of the water temperature at water taps
- Inspection of thermal mixing valves
- Acceptance tests of newly installed drinking water installations

Dimensions (H x W x D):	158 x 71 x 97 mm	
Weight:	370 g	
Interface:	Bluetooth® Smart	
Measuring ranges:	Flow rate: 1.5 / 17.5 l/min	Temperature: 0 / +100 °C
Accuracy:	Flow rate: ±0.3 l/min or ±5 % of measured value	Temperature: ±2 °C or ±3 % of measured value
Resolution:	Flow rate: 0.1 l/min	Temperature: 0.1 °C

DG: H, PG: 4	Part no.
FlowTemp® ST	502001





Seda

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