

## Type TF 15

**modular @temp**

Temperature sensor for aseptic applications with welding sleeve system and modular process connections

### Basic features

- ▶ welding sleeve system with modular process connections
- ▶ thread G1/2" elastomer-free sealing system
- ▶ changeable measuring element (without opening the process)
- ▶ changeable connecting head
- ▶ aseptic measuring points
- ▶ optional: with free programmable integrated measuring transducer
- ▶ wetting parts made of high-grade-steel no. 1.4571
- ▶ FDA, EHEDG-conformal
- ▶ optional: calibration certificate according to DIN ISO 9000 ff (see data sheet calibr.-service)



### Technical features

- ▶ 1 or 2 x Pt100, class A
- ▶ sensor lengths from 50 mm to 2500 mm
- ▶ standard-functional range -50°C to 400 °C (other ranges on request)
- ▶ alu / high-grade-steel connecting head with bolting or M12-plug
- ▶ torque: 10 - 20 Nm
- ▶ protection class: (execution-dependently)
- ▶ operating pressure 10 bar max.
- ▶ standard protective tube Ø 6 mm

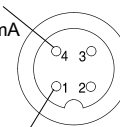
### Pin assignment M12-plug

With measuring transducer MUK

Without measuring transducer MUK

Black  
-24 V  
4-20mA

Brown  
+24 V



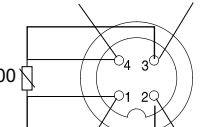
Black

Bue

Pt100

Brown

White



### Favoured fields of application are e.g.:

- ▶ temperature measuring in the pharmaceutical and food industry
- ▶ temperature measuring in positive pressure- and under-inflation containers and pipings

### Examples clamp boltings



AP 15



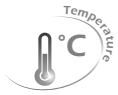
CP 15



HP 15

See data sheet process connections

**modular @process**



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TF 15 -						
<b>Connecting head</b>						
SB (IP54) with screw -cap	1					
SBKL (IP65) with hinged lid	2					
SBKS (IP54 with hinged lid quick release fastener)	3					
SBAKLH (IP65 with high hinged lid (for meas. transducer))	4					
<b>SBVA (high-grade-steel 1.4571, IP65), small vers., screw connection</b>	<b>5</b>					
<b>SBVAST (high-grade-steel 1.4571, IP65, like 5 w.o.screw conn., M12-plug)</b>	<b>6</b>					
SBVAG (high-grade-steel 1.4571, IP65), large version,screw connection)	7					
SBVASTG (high-grade-steel, 1.4571, IP65, like 7 w.o. scr.conn., M12-plug	8					
SBVAG (high-grade-steel 1.4571, IP65) large vers. with assembly kit for 2 MT	9					
SBVASTH (high-grade-steel 1.4571, IP65, like 9 w.o scr.conn, M12-plug)	10					
<b>Fitting length (ML = mouting length), (MEL = measuring element length)</b>						
50 mm ML (MEL = 126 mm)		A				
100 mm ML (MEL = 176 mm)		B				
150 mm ML (MEL = 226 mm)		C				
200 mm ML (MEL = 276 mm)		D				
250 mm ML (MEL = 326 mm)		E				
300 mm ML (MEL = 376 mm)		F				
400 mm ML (MEL = 476 mm)		G				
Customized, Length <400mm, price of the next higher standard length		K				
Customized, Length > 400 mm, Base price of 400 mm, + 10,00 euro per started 100 mm						
<b>Type of sensor and tolerance</b>						
1xPt100, class A 4-wire			1	A	4	
2xPt100, class A 3-wire			2	A	3	
other type or customized classification on request					K	
<b>Output signal</b>						
Additional name for integrated sensor-head transducer						<b>MUK</b>
Specification of the temperature range						

**The red marked items are preferred types!**