

FRODE PEDERSEN

Application

- Measurement of temperature in gasses, vapours and fluids in pipes and cooling systems. Threaded connection to the process directly or with separate screw - in pocket.
- The operating range is up to 250°C, max. 50 bar and flow velocity up to 25m/sec (air)
- Fields of application
 - Marine sector
 - Diesel engines for generators

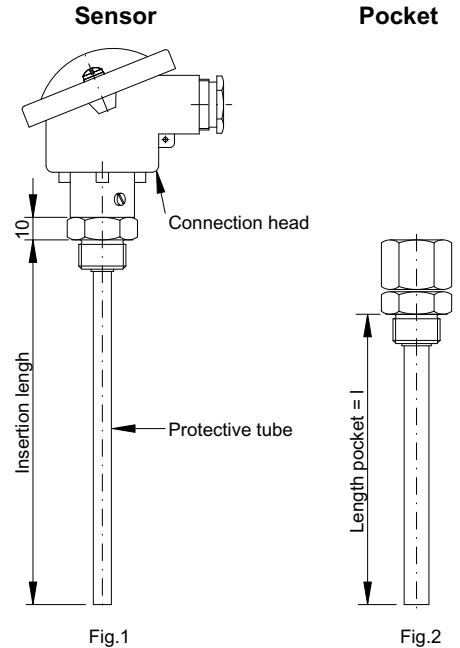
Technical features

- Pt100 resistance thermometer acc. to IEC 751
- 3-wire configuration is standard
- Easy connection and removal with special screw-in thermowell with female swivel for the sensor, allowing to rotate the cable entry of the sensor in the desired direction
- Solid construction with high resistance against vibration acc. to IEC 68-2-6
- Type approved by classification societies (see page 2)
- Standard modules and lengths means that few spare parts need to be kept in stock
- Can be supplied with head mounted transmitter as an option

Ordering

The requested sensor is selected from the table below
The colour code means:

- Standard: Built of standard modules (short delivery time)
- Variant: Modified standard modules
- Special: Special versions and materials. We are specialist in temperature measurement. Please contact us and we will do our utmost to solve your specific measuring task



Ordering information

Specification number	1809-	Sensor										Transmitter			
												4mA:	°C	20mA:	°C 2)
Protective tube												Transmitter, 2-wire, 4-20mA output			
Stainless, acidproof steel, W.no. 1.4571 (AISI 316Ti)												0			
8mm OD. 1mm wall		0										1			
												2			
												3			
												4			
												5			
												6			
												7			
												8			
												s			
												Special:			
												Note 2: Please specify measuring range in °C			
												Connection. Wiring configuration			
												0			
												1			
												2			
												Special:			
												Tolerance acc. to IEC 751			
												0			
												1			
												2			
												3			
												s			
												Special:			
												Resistance value (ohm) acc. to IEC 751			
												0			
												1			
												s			
												Special:			
												Measuring insert: Type and measuring range			
												0	0		
												s	s		
												Special:			

Accessories

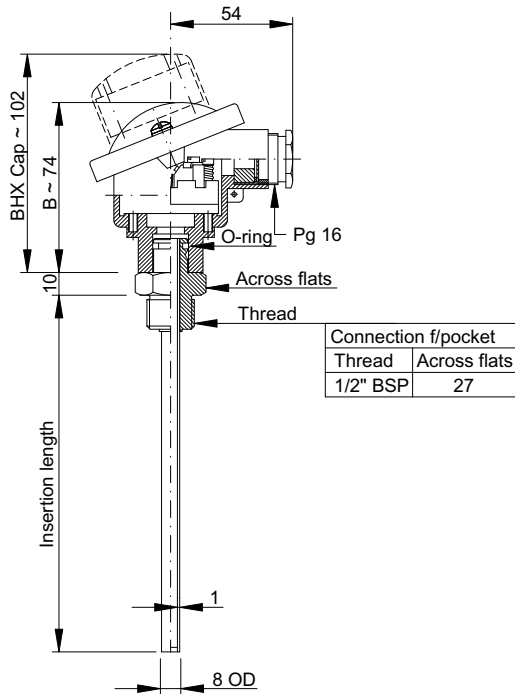
Transmitter: See data sheet 9168

Customer information

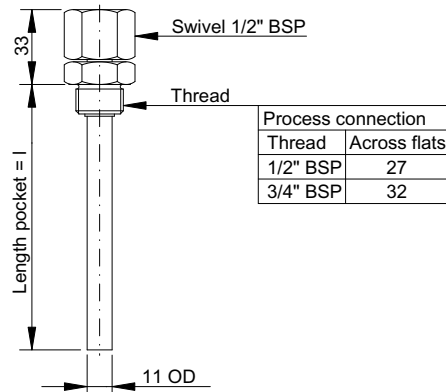
Name:
Tel.:

Dimensions

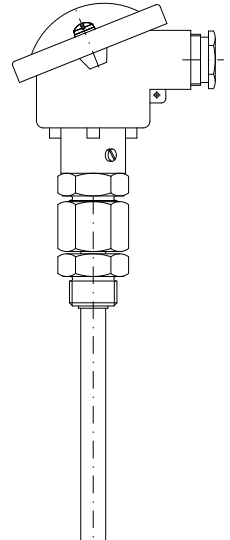
Resistance thermometer BFM
Connection head
Type B / B+BHX Cap (for transmitter)



Pocket



BFM with pocket



Length pocket l = Insertion length sensor minus 33mm

Response time

Protective tube	Response time in seconds (guidelines)			
	In water @ med 0.4m/sec.		In air @ 3m/sec.	
	t _{0,5}	t _{0,9}	t _{0,5}	t _{0,9}
8 OD	9	27	50	150
With 11 OD pocket	25	75	140	430

Note:

The 0.5/0.9 time is the time that it takes the sensor to reach 50%/90% of the final value of a temperature change of a medium.
If media and velocity are different from the ones stated, the time can change significantly.

Type approvals

- Lloyd's Register of Shipping

Connection diagram

