

Thermocouple assembly AF

mesuring insert with connection head

Data sheet 1308

FRODE PEDERSEN

Application

- · Measurement of temperature in ducts and furnaces with air and flue gasses
- The operating range is up to 800°C in the low-pressure range
- · Fields of application
 - Chemical process engineering
 - Drying equipment
 - Process industry

Technical features

- Thermocouple type J, K and N acc. to IEC-584-1
- Built as an meauring insert acc. to DIN 43769
- Connected to the process by adjustable flange or compression fittings
- Fast response time

Special:

Accesesories

Transmitter:

Process connection: See data sheet 9113 Measuring insert: See data sheet 9108-01

See data sheet 9168

- · Measuring insert is a mineral insulated type, vibrationproof
- Modular design and standard length minimize the necessary number of spares
- · Optionally, can be supplied with head mounted transmitter

Ordering

The requested sensor is selected from the table below

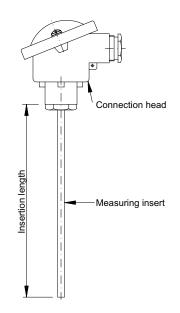
The colour code means:

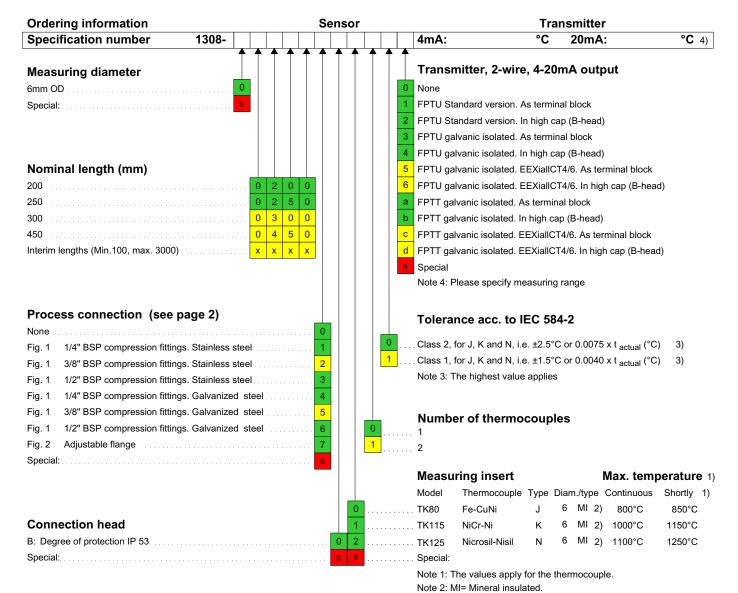
Standard: Built of standard modules (short delivery time)

Variant: Modified standard modules

Special versions and material. We are specialist in temperature measurement.

Please contact us and we will do our best to solve your specific measuring task





Customer information

Name:

Tel.:

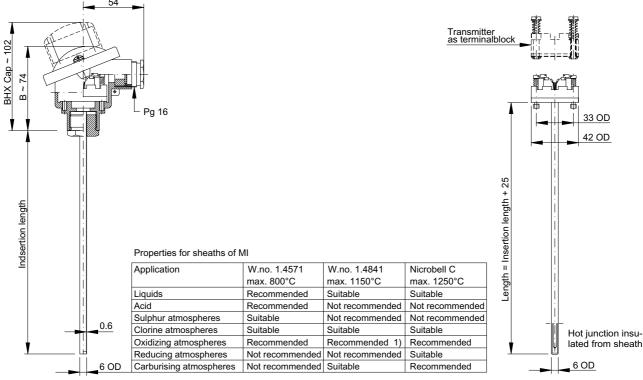
TECHNICAL All dimensions in mm

Dimensions

Complete themocouple assembly AF Type B / B+BHX Cap (for transmitter)

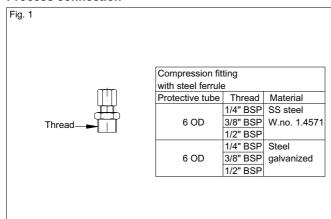
Measuring insert

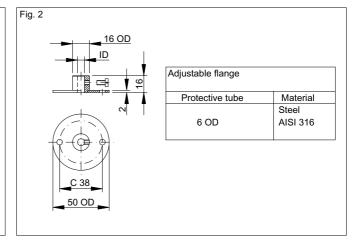
Mineral insulated



Note 1: Not recommended for continous operations in the range 425°C to 850°C

Process connection





Response time

•					
Sheath diameter	Resp	Response time in seconds (guidelines)			
	In water @	In water @ 0.4m/sec.		In air @ 3m/sec.	
	t 0,5	t 0,9	t 0,5	t 0,9	
6 OD	4	10	60	200	

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.

Connection diagram

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Thermocouple		Transmitter FPTU/FPTT				
Single TC	Duplex TC					
+ 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	+	Viddus V A Cupply				