

Resistance Thermometer AF

Data sheet 1408

measuring insert with connection head

Application

- Measurement of temperature in ducts and furnaces with air and flue gasses
- The operating range is up to 600°C in the low-pressure range
- Fields of application
- Heat and ventilation (HVAC)

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- Drying equipment
- Machine construction and enviromental engineering

Technical features

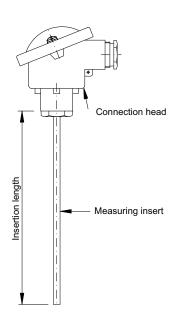
- Pt100 resistance thermometer acc. to IEC 751
- Built as an meauring insert acc. to DIN 43769
- 3-wire connection is standard
- Connected to the process by adjustable flange or compression fittings
- Measuring insert in either ceramic powder filled tube, or mineral insulated MK40/60, vibrationproof
- Modular design and standard length minimize the necessary number of spares
- Can be supplied with head mounted transmitter as an option

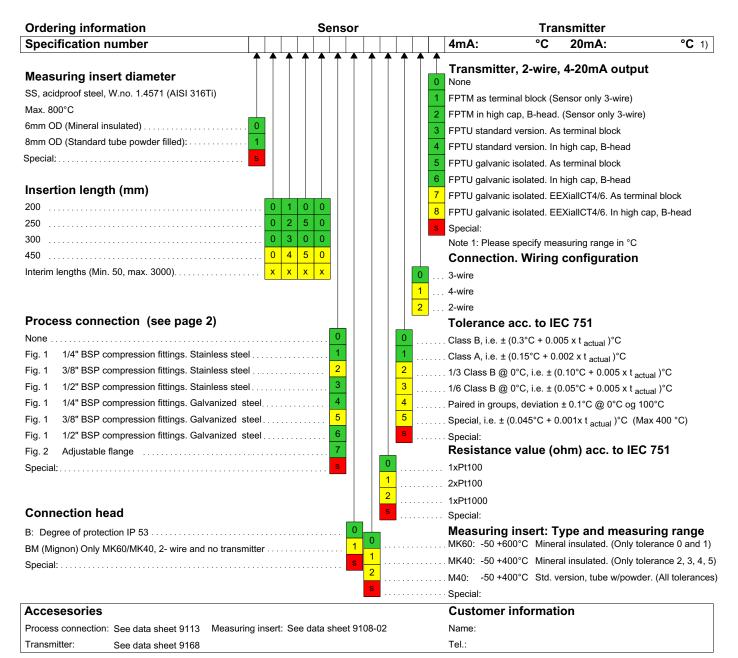
Ordering

The requested sensor is selected from the table below

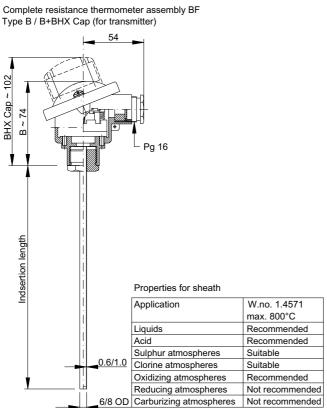
The colour code means:

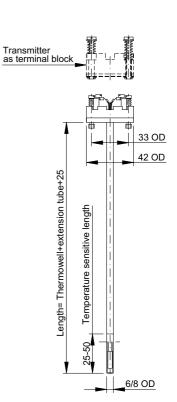
Standard:	Built of standard modules (short delivery time)
Variant:	Modified standard modules
Special:	Special versions and material. We are specialist in temperature measurement. Please contact us and we shall do our utmost to solve your specific measuring task





TECHNICAL DATA

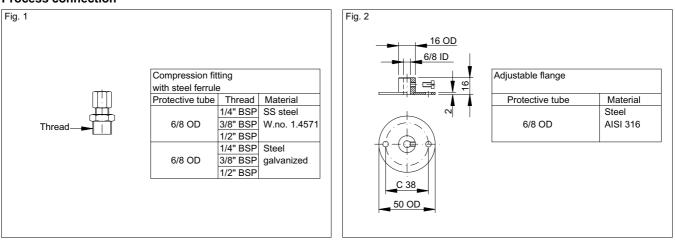




Measuring insert

Type M40 / MK60

Process connection



Response time

Sheath diameter	Response time in seconds (guidelines)					
	In water @	0.4m/sec.	In air @ 3m/sec.			
	t 0,5	t 0,9	t 0,5	t 0,9		
OD 6	7	20	48	151		
OD 8	9	26	60	190		

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

	4-wire							
Pt100 resis	stance	Transmitter FPTU	Transmitter FPTM	Pt100 ressistance			Transmitter FPTU	
1xPt100 3-wire 2	2xPt100 3-wire			1xPt100	4-wire	2xPt100	4-wire	
		4-20mA V supply						4-20mA V vsupply

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