

Thermocouple assembly AKT

with measuring insert and ceramic outer protective tube

Data sheet 1106

FRODE PEDERSEN

Application

- For technical temperature measurements in combustion processes and hot-gas environments,
- primarily in all types of furnaces up to 1200°C (shortly 1300°C)
- The sensor is special developed for use in
 - Refuse and hazardous waste incinerations plants. The combination of high temperature, corrosive gasses and particles demands special features in relation to life-time for the sensor and minimize process down-time

Technical features

- Thermocouple type N and K acc to IEC584-1
- Interchangeable measuring insert, mineral insulated with high heat and corrosive resistance sheath
- Connected to the process by adjustable flange, gas-tight flange or compression fitting
- Gas-tight ceramic protective tube in KER 610 or KER 710
- Modular design and standard length minimize the necessary numbers of spares
- Optionally, can be supplied with head mounted transmitter

Ordering

Special:

The requested sensor is selected from the table below

The colour code means:

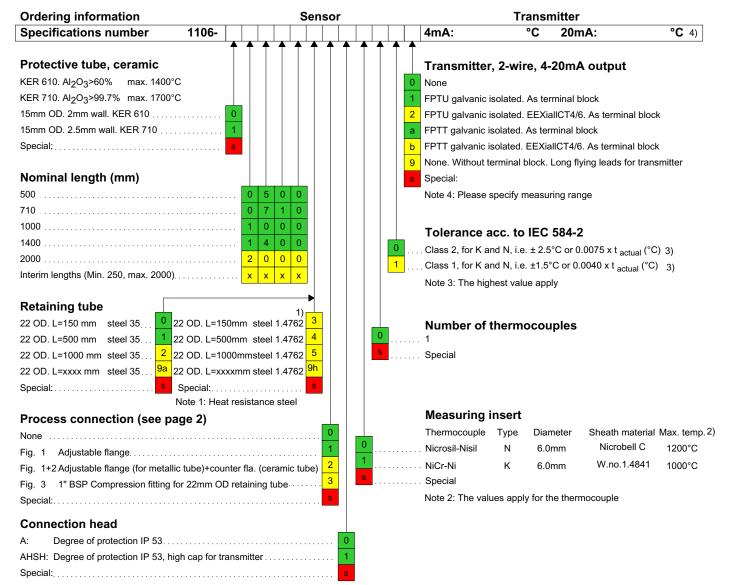
Built of standard modules (short delivery time) Standard:

Variant: Modified standard modules

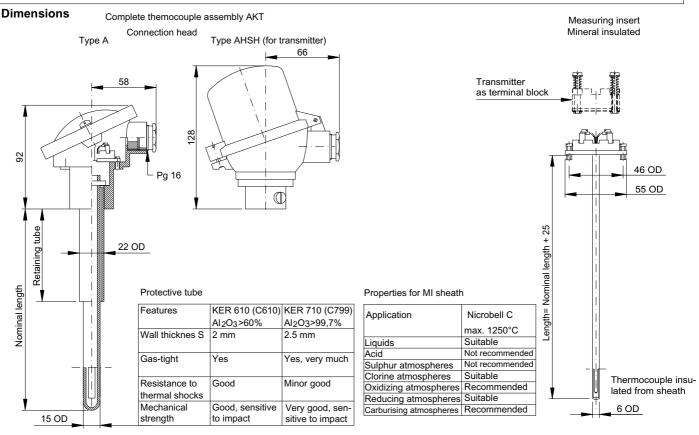
Special versions and material. We are specialist in temperature measurement.

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

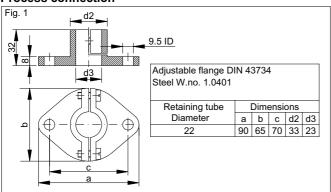
Complete assembly Measuring insert Connection head 1 Retaining tube Nominal length Protective tube

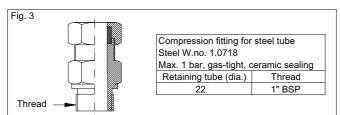


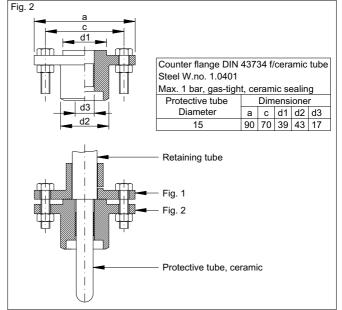
Accesessories		Customer information	
Process connection:	See data sheet 9113	Name:	
Transmitter:	See data sheet 9168	Tel.:	



Process connection







Response time

Nesponse unie					
Protective tube	Resp	Response times in seconds (guidelines)			
Diameter	In water @ 0.4m/sec. In air @ 3m/se		Bm/sec.		
	t _{0.5}	t _{0.9}	t _{0.5}	t _{0.9}	
15	-	-	250	700	

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

The	Transmitter FPTT							
Single TC	Duplex TC							
+	+ V E	(Iddns/ Amos-4						