

FRODE PEDERSEN

Thermocouple assembly UST 3

for exhaust gasses, with interchangeable insert

Data sheet 1803

Application

- Measurement of exhaust temperature in ships- and stationary diesel engines
- The operating range is up to 800°C in gaseous media with high flow velocity
- Fields of application
 - Ship engines
 - Generators

Technical features

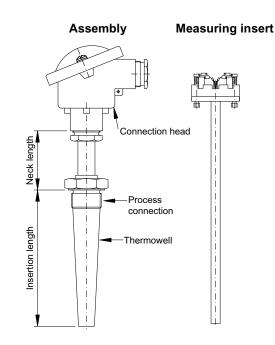
- Thermocouple type K acc. to IEC 584-1
- Solid construction with high resistance against vibration acc. to IEC 68-2-6
- The measuring insert can be exchanged or calibrated without closing down the process
- Thermowell drilled from bar stock for optimum strength
- Type approved by classification societies (see page 2)
- · Connected to the process with a screwed attachment on the thermowell
- Can be supplied with head mounted transmitter as an option

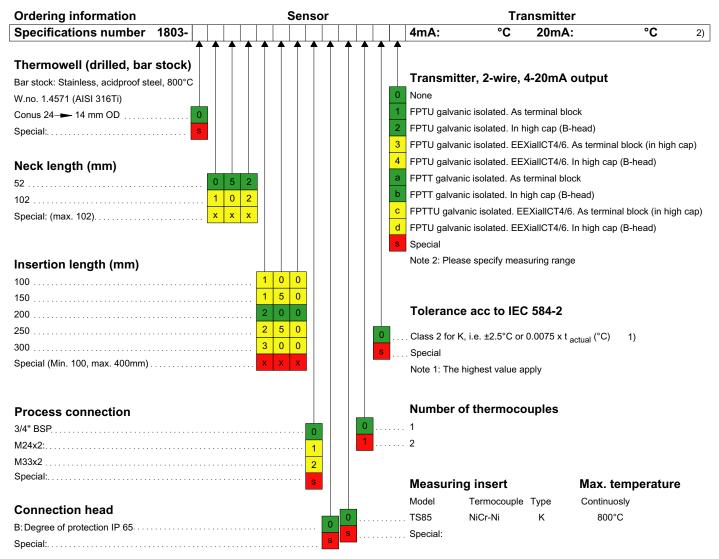
Ordering

Please select the requested sensor from the table below The colour code means:



- Variant: Modified standard modules
- Special: Special versions and material. We are specialists in temperature measurement. Please contact us and we shall do our utmost to solve your specific measuring tasks

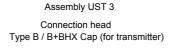


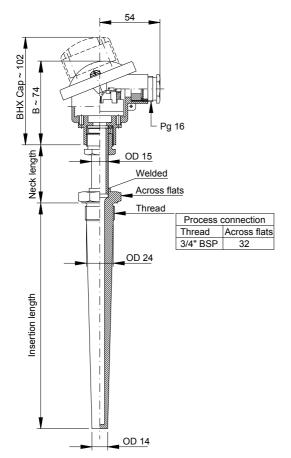


Accesseori	es	Customer information
Measuring insert: See data sheet 9108-01		Name:
Transmitter:	See data sheet 9168	Tel.:

Dimensions

Measuring insert





Insulation resistance

Versus temperature

Test temperature	U	Rmin
°C	Volts	M ohm
20±15	500	1000
500±15	500	5

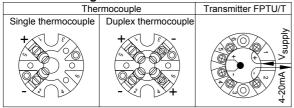
Response time

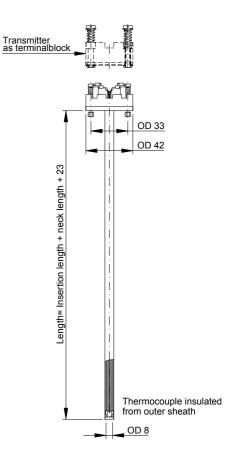
Thermowell	Response time acc. to representative measurement		
	Temp. changed from 800°C to 20°C (immersed in water)		
	t 0.5	t _{0.9}	
Conus OD 24 - OD 14	40	120	

Type Approvals

- Lloyd's Register of Shipping - Det Norske Veritas

Connection diagram





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.