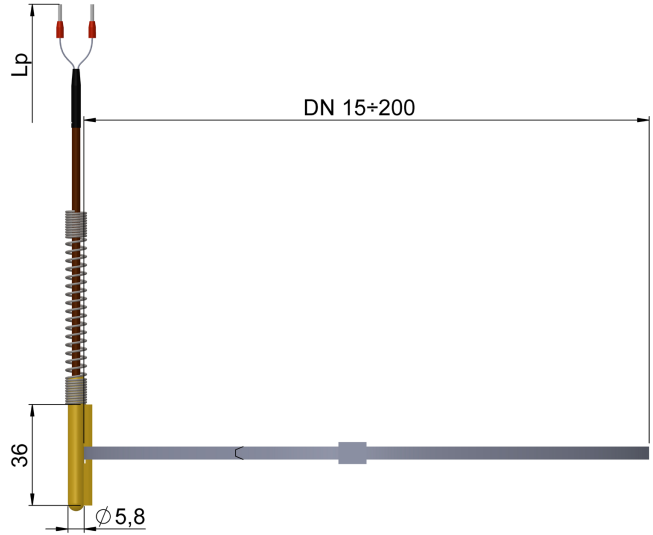


Intrinsically safe temperature sensors for surface measurement **TOPE-244Exi**

Technical description



Measuring range / sensing element		
(-40 ÷ 400) °C	Pt100	class B
Thermowell		
- material: brass		
- length [mm]: 48		
- radiator increasing the heat sink surface		
- band for mounting on a DN 15 ÷ 200 mm pipeline		
Wire		
- wire: 0,22 mm ² in fiberglass insulation with metal braid		
- cable length L _p =1,5m (standard)		
- wires resistance Cu ~0,14 Ω/m=±0,36 °C		
Construction version		
- Exi acc. to ATEX		
- WE Type-Examination Certificate: KDB 07ATEX055		
II 2G Ex ia IIC T6		
II 2D Ex ia IIIC T85 °C		
Options		
- Pt500, Pt1000		
- silicone insulation, operating temperature up to 180 °C		
- 3-, 4-wire connection		
- Pt100: class A (-30 ÷ 250) °C, class AA (0 ÷ 150) °C		



Response time T05/T09

Sensor type	ø9	ø11
Pt	≤33/≤95	≤40/≤120

Resistors tolerance acc. to PN-EN 60751

Class	Wire wound resistor	
	Range [°C]	Tolerance [°C]
AA	(-50÷250)	±(0,1+0,0017· t)
A	(-100÷450)	±(0,15+0,002· t)
B	(-196÷600)	±(0,3+0,005· t)

Ordering code

Temperature sensor	TOPE-244Exi	-	...	-	...	-	...	-	...
Fiberglass insulation									Ws
Silicone insulation									Si
Resistor type									Pt500*
Resistor class									A, B*
Measuring circuit									2, 3, 4
Cable length L _p [m]									1,5m*

* or others acc. to requirements

Ordering example

TOPE-244Exi-Ws-Pt100-B-3-1,5m single sensor Pt100, class B, 3-wire connection, with a band for mounting on a pipe 15÷200 DN, fiberglass insulated lead wire length_p=1,5m