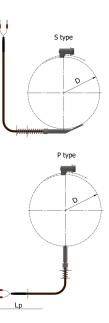
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Temperature sensors for surface measurement TOPE-243, TTJE-243, TTKE-243

Technical description

Measuring range /	sensing elem	ient	
(-50 ÷ 400) °C (-40 ÷ 400) °C	Pt100 J, K	class B class 2	
Pipe band camp			
 material, steel 1.4 pipeline diameter width b: 9 mm for 12 mr 	D [mm]: 16÷18		
Sheath			
– material: 1.4541 -	•	ntially to the band (S) icular to the band (P)	
Wire			
 Cu wire or thermodynamic of the second second	on with metal b n for TC: insula tandard)	oraid ated SO	
Options			
 Pt500, Pt1000, Ni other cable insulation 	tions acc. to re	equirements:	



Tolerance for thermocouples class acc to. PN-EN 60584

Thermocouple	Class 1		Class 2			
	Range [°C]	Tolerance [°C]	Range [°C]	Tolerance [°C]		
J Fe-CuNi	(-40÷375) (375÷750)	±1,5 ±0,004 t	(-40÷333) (333÷750)	±2,5 ±0,0075 t		
K NiCr-NiAl	(-40÷375) (375÷1000)	±1,5 ±0,004 t	from (-40÷333) (333÷1200)	±2,5 ±0,0075 t		

Types of measuring hot jur	nction
sheath themoslement insulation	
50	SP

Ordering code

Temperature sens	or	т		E-243	•					
Resistor Pt Thermocouple Fe-CuNi Thermocouple NiCr-NiAl			OP TJ TK							
Band clamp tangent to sheath Band clamp perpendicular to sheath					S P					
Pipeline diameter D [mm]						40*				
Resistor type Junction insulated from the sheath Junction grounded	for TC					Pt	100* SO SP			
Resistor class Thermocouple class								, B* 1, 2		
Measuirng circuit for RTD								2,	3, 4	
Cable length L _p [m]									1,	5m*

* or others acc. to requirements

Ordering example

TTJE-243S-25-SO-2-1,5m single thermocouple sensor Fe-CuNi, class 2, with sheath welded tangentially to the band, band diameter 25 mm, isolated junction, with lead wire in fiberglass insulation, lead wire length L_=1,5m

TOPE-243P-80-Pt100-B-2-1,5m single sensor Pt100, class B, 2-wire connection connection, with sheath welded perpendicular to the band, band diameter 80 mm, with lead wire in fiberglass insulation, lead wire length L,=1,5m

F

- - silicone insulation, operating temperature up to 180 °C,
 - teflon insulation, operating temperature up to 200 °C
 - measuring junction for TC: grounded SP - 3-, 4-wire connection for RTD
 - Pt100: class A (-30 ÷ 300) °C, class AA (0 ÷ 150) °C TC: class 1