

Temperature sensors with non-replaceable measuring inserts TOPI-6, 8, TTJI-6, 8, TTKI-6, 8

Dane techniczne

Measuring range* / sensing element		
(-200 ÷ 600) °C	Pt100	class B
(-40 ÷ 700) °C	J, K	class 2
Measuring insert		
– non-replaceable		
Sheath		
– material: steel 1.4541		
– sheath length L [mm]:		
standard - 115, 175, 245, 375, 525	for ø6, L _{max.} [mm]:	1500
standard - 495, 705, 995, 1395, 1995	for ø8, L _{max.} [mm]:	2000
Connection head		
– BA, IP55, (-40 ÷ 100) °C		
Options		
– local display built into the DANAWwin head connection – p. 220		
– Pt500, Pt1000, Ni100, Ni1000, N, T		
– measuring junction types – p. 13		
– connection heads: p. 217+218 (eg. stainless BEG; aluminium NA, IP65; NA with snap lock)		
– Pt100: class A (-100 ÷ 450) °C, class AA (-50 ÷ 250) °C; TC: class 1		
Additional accessories		
– temperature transmitters – p. 225+241		
– process protection tubes and thermowells – p. 200+214		
– compensation cables – p. 197		
– mounting brackets: UG-1, UG-3, UG-8, UZK-1 – p. 215+216		

* for clean air

Response time T05/T09

Sensor type	ø8
Pt	≤33/≤95
J, K insulated junction	≤22/≤62
J, K grounded junction	≤3/≤8

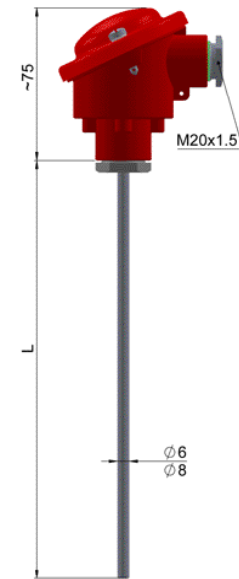
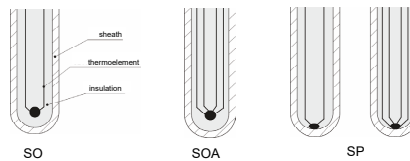
Resistors tolerance acc. to PN-EN 60751

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)

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 junction



Ordering code

Temperature sensor	...	T	...	I	-	-	-	-	-	-	-	-	-	-	-
Single		no sign													
Double		2													
Single with transmitter		AP													
Double with transmitter (only one circuit)		AP2													
Double with two transmitters		2AP2													
With local display (single)		APW													
Resistor Pt				OP											
Thermocouple Fe-CuNi				TJ											
Thermocouple NiCr-NiAl				TK											
Thermowell diameter [mm]								6, 8							
Junction isolated from the sheath										SO					
Double junction isolated from the sheath										SOA					
Grounded junction										SP					
Sheath length L [mm]												525*			
Resistor class														A, B*	
Thermocouple class														1, 2*	
Measuring circuit for RTD														2, 3, 4*	
Type of transmitter															RT-01*
Setting of transmitter temperature															(0 ÷ 400) °C*

* or others acc. to requirements

Ordering example

TOPI-6-115-B-2