

Temperature sensors with non-replaceable measuring inserts **TOPGN-55, TTJGN-55, TTKGN-55**

Dane techniczne

Measuring range* / sensing element		
(-200 ÷ 550) °C	Pt100	class B
(-40 ÷ 600) °C	J, K	class 2
Measuring insert		
– non-replaceable		
Sheath		
– material: steel 1.4541		
– length L [mm]: 50+1500		
Connection head		
– MA, IP54, (-40 ÷ 100) °C		
Options		
– Pt500, Pt1000, Ni100, Ni1000, N, T		
– other threads (inch and metric) acc. to requirements		
– measuring junction types – p. 13		
– connection head - stainless MBEG – p. 218		
– Pt100: class A (-100 ÷ 450) °C, class AA (-50 ÷ 250) °C; TC: class 1		
Additional accessories		
– temperature transmitters (only Pt100, 2-wire connection) – p. 237		
– process protection tubes and thermowells – p. 200+214		
– compensation cables – p. 197		

* for clean air

Response time T05/T09

Sensor type	ø9	ø11
Pt	≤33/≤95	≤40/≤120
J, K insulated junction	≤22/≤62	≤27/≤90
J, K grounded junction	≤3/≤8	≤6/≤15

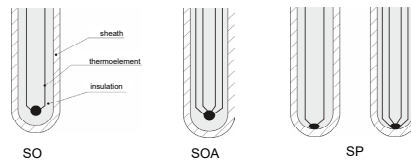
Resistors tolerance acc. to PN-EN 60751

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	...	GN-55	-	...	-	...	-	...	-	...	-	...	-	...	-	...	-	...	
Single		no sign																			
Double (only 2-wire connection)		2																			
With transmitter (for Pt100)		AP																			
Resistor Pt																					
Thermocouple Fe-CuNi																					
Thermocouple NiCr-NiAl																					
Junction isolated from the sheath																					
Double junction isolated from the sheath			for																		
Grounded junction			TC																		
Sheath length L [mm]																					
Thermowell diameter d [mm]																					
Thread dimension																					
Resistor class																					
Thermocouple class																					
Measuring circuit for RTD (Single)																					
Measuring circuit for RTD (double)																					
Type of transmitter (tylko Pt100, 2-przew.)																					
Setting of transmitter temperature																					

* or others acc. to requirements

Ordering example

TTJGN-55-SO-600-8-M20x1,5-1