

Temperature sensors with non-replaceable measuring inserts TOPGN-1, TTJGN-1, TTKGN-1

Dane techniczne

Measuring range* / sensing element		
(-200 ÷ 600) °C	Pt100	class B
(-40 ÷ 600) °C	J, K	class 2
Measuring insert		
– non-replaceable		
Sheath		
– material: steel 1.4541		
– length L [mm]: 50÷2000		
Connection head		
– BA, IP54, (-40 ÷ 100) °C		
Options		
– local display built into the DANAWwin head connection – p. 220		
– Pt500, Pt1000, Ni100, Ni1000, N, T		
– other threads (inch and metric) acc. to requirements		
– 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		

* 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

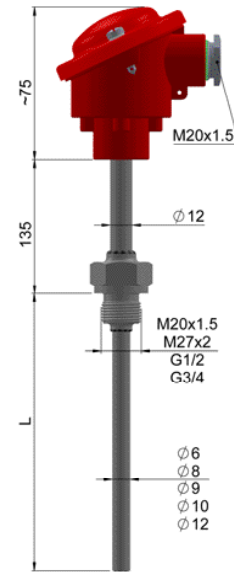
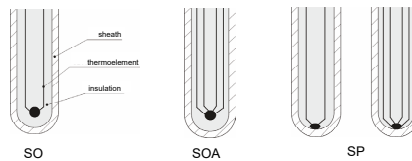
Resistors tolerance acc. to PN-EN 60751

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-1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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																		
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 [mm]																		
Thread dimension																		
Resistor class																		
Thermocouple class																		
Measuring circuit for RTD																		
Type of transmitter																		
Setting of transmitter temperature																		

* or others acc. to requirements

Ordering example

APTTJGN-1-SO-600-12-G¾-1-Tx-(0 ÷ 600) °C