

## Temperature sensors with non-replaceable measuring inserts **WTOPGN-6, WTTJGN-6, WTTKGN-6**

### Dane techniczne

Measuring range* / sensing element		
(-200 ÷ 550) °C	<b>Pt100</b>	class B
(-40 ÷ 550) °C	<b>J, K</b>	class 2
Measuring insert		
– non-replaceable		
– insulated junction		
Sheath		
– material: steel 1.4541		
– length L [mm]: 80÷1500		
Connection head		
– XDI-80, IP65, (-20 ÷ 70) °C		
Local display		
– LPI type + any transmitter (4 ÷ 20) mA – p. 220		
Options		
– Pt500, Pt1000, Ni100, Ni1000, N, T		
– other threads (inch and metric) acc. to requirements		
– measuring junction types – p. 13		
– Pt100: class A (-100 ÷ 450) °C, class AA (-50 ÷ 250) °C; J, K: class 1		
Additional accessories		
– temperature transmitters – p. 225+241		
– process protection tubes and thermowells – p. 200+214		

\* for clean air

#### Response time T05/T09

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

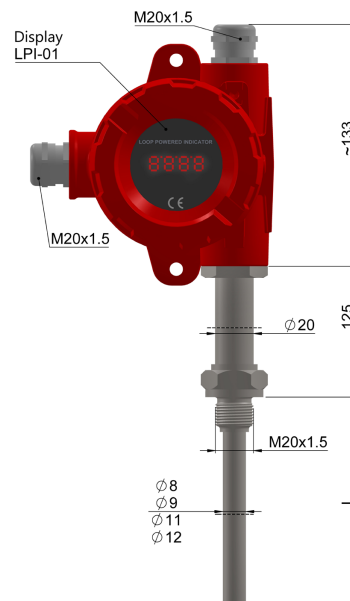
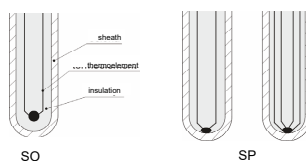
#### Resistors tolerance acc. to PN-EN 60751

Class	Wire wound resistor	
	Range [°C]	Tolerance [°C]
<b>AA</b>	(-50÷250)	±(0,1+0,0017· t )
<b>A</b>	(-100÷450)	±(0,15+0,002· t )
<b>B</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]
<b>J</b> Fe-CuNi	(-40÷375) (375÷750)	±1,5 ±0,004  t	(-40÷333) (333÷750)	±2,5 ±0,0075  t
<b>K</b> 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	WT	...	GN-6	-	-	-	-	-	-	-	-	-	-	-	-
Resistor Pt	<b>OP</b>														
Thermocouple Fe-CuNi	<b>TJ</b>														
Thermocouple NiCr-NiAl	<b>TK</b>														
Sheath length L [mm]															<b>230*</b>
Thermowell diameter [mm]															<b>8, 9, 11, 12</b>
Thread dimension															<b>G½; M20x1,5*</b>
Resistor class															<b>A, B*</b>
Thermocouple class															<b>1, 2</b>
Measuring circuit for RTD															<b>2, 3, 4</b>
Type of transmitter															<b>RT-01*</b>
Setting of transmitter temperature															<b>(0 ÷ 400) °C*</b>

\* or others acc. to requirements

### Ordering example

**WTOPGN-6-250-9-G½-A-3-LTT03B-(0 ÷ 300) °C**