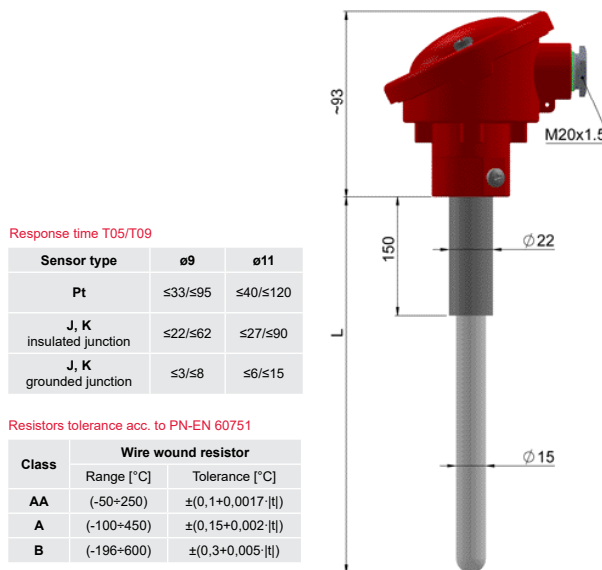


## Temperature sensors with ceramic protection tubes TTSC-22, TTRC-22, TTBC-22, TTKC-22

### Dane techniczne

Measuring range / sensing element		
(-40 ÷ 1200) °C	<b>K</b>	class 2
(0 ÷ 1600) °C	<b>S, R</b>	class 2
(600 ÷ 1700) °C	<b>B</b>	class 3
Sheath		
– sheath material: steel 1.4841, ø22 mm		
– protection tube: mullite 610 or corundum 799, ø15x2,5 mm		
– length L [mm]: 300÷2000		
Connection head		
– AA, IP53, (-40 ÷ 100) °C		
Options		
– thermocouple S, R, K: class 1, B: class 2		
– with (4 ÷ 20) mA transducer in the DAAW head cover		
Additional accessories		
– temperature transmitters – p. 225÷241		
– compensation cables – p. 197		
– mounting brackets: UZ-11, UZ-21 – p. 216		



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

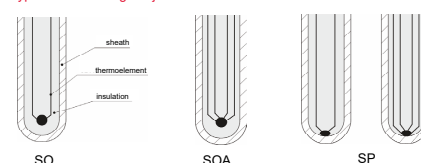
Resistors tolerance acc. to PN-EN 60751

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



Material of the sheath	Diameter drutu [mm]	Type of the thermocouple	Max. operating temp.
mullite 610	ø0,35	R, S	1200 °C
mullite 610	ø0,5	R, S	1400 °C
corundum 799	ø0,35	R, S	1500 °C
corundum 799	ø0,5	R, S	1600 °C
corundum 799	ø0,35	B	1600 °C
corundum 799	ø0,5	B	1700 °C
mullite 610	ø2	K	1200 °C

### Ordering code

Temperature sensor	...	TT	...	C-22	-	...	-	...	-	...	-	...	-	...
Single														
Double		no sign												
With transmitter		2												
Thermocouple NiCr-NiAl				K										
Thermocouple PtRh10-Pt				S										
Thermocouple PtRh13-Pt				R										
Thermocouple PtRh30-PtRh6				B										
Material of the ceramic thermowell					610, 799									
Sheath length L [mm]										1400*				
Thermocouple class for K, R, S													1, 2	
Thermocouple class for B													2, 3	
Diameter of platinum wire (for S, R, B) [mm]													0,35; 0,5	
Type of transmitter														Tx*
Setting of transmitter temperature														(0 ÷ 1200) °C*

\* or others acc. to requirements

### Ordering example

TTSC-22-799-1000-2-0,35