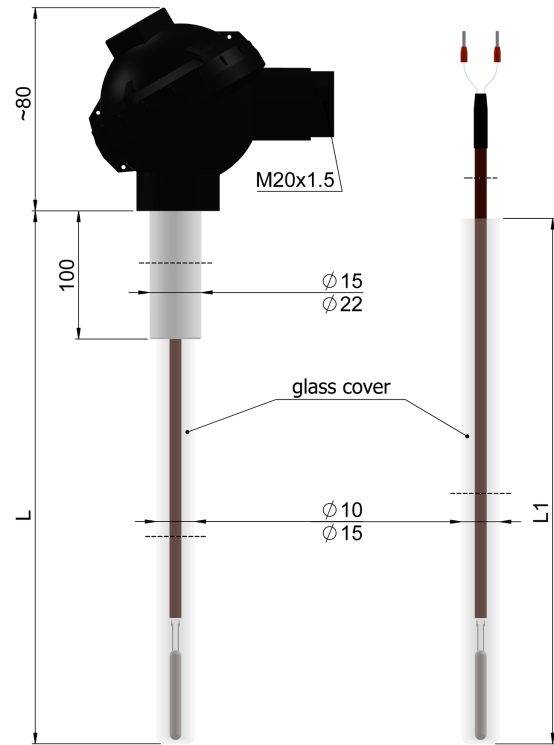


Temperature sensors for aggressive environments TOPSZ-157, TOPSZE-157

Technical description

Measuring range / sensing element		
(0 ÷ 500) °C	Pt100	class B; with connection head
(0 ÷ 180) °C	Pt100	class B; with lead wire
Thermowell		
– borosilicate glass SIMAX, diameter [mm]: $\varnothing 10$, $\varnothing 15$		
– length L [mm]: 300+680 for sheath $\varnothing 15$ mm		
300+480 for sheath $\varnothing 10$ mm		
– length L_1 [mm]: 300+700 for sheath $\varnothing 15$ mm		
300+500 for sheath $\varnothing 10$ mm		
– supporting sheath: teflon, diameter [mm]: $\varnothing 15$, $\varnothing 22$		
Connection head for TOPSZ-157		
– NS, IP54, (-30 ÷ 80) °C		
Lead wire for TOPSZE-157		
– Cu wire: 2, 4x0,22 mm ² in double teflon insulation		
– length $L_p = 1,5$ m (standard)		
Options		
– Pt500, Pt1000, Ni100, Ni1000		
– Pt100: class A (-50 ÷ 450) °C, class AA (-50 ÷ 250) °C		
Additional accessories		
– temperature transmitters – p. 225+241		



Resistors tolerance acc. to PN-EN 60751

Class	Wire wound resistor	
	Range [°C]	Tolerance [°C]
AA	(-50÷250)	$\pm(0,1+0,0017 \cdot t)$
A	(-100÷450)	$\pm(0,15+0,002 \cdot t)$
B	(-196÷600)	$\pm(0,3+0,005 \cdot t)$

Response time T05/T09

Sensor type	$\varnothing 9$	$\varnothing 11$
Pt	$\leq 33/\leq 95$	$\leq 40/\leq 120$

Ordering code

Temperature sensor	...	TOPSZ	...	- 157-
Single		no sign								
Double		2								
With transmitter		AP								
Head connection				no sign						
Lead wire connection				E						
Sheath length L/L_1 [mm]						300*				
Thermowell diameter d [mm]							10, 15			
Resistor class								A, B*		
Measuring circuit									2, 3, 4	
Type of transmitter (for TOPSZ-157)										RT-01*
Setting of transmitter temperature										(0 ÷ 400) °C*
Cable length L_p [m] (for TOPSZE-157)										1,5m*

* or others acc. to requirements

Ordering example

TOPSZ-157-480-15-A-3 head connection sensor Pt100, class A, 3-wire connection, sheath diameter $\varnothing 15$ mm, sheath length $L = 480$ mm

TOPSZE-157-300-10-B-2-1,5m wired sensor Pt100, class B, 2-wire connection connection, sheath diameter $\varnothing 10$ mm, sheath length $L_1 = 300$ mm, lead wire length $L_p = 1,5$ m