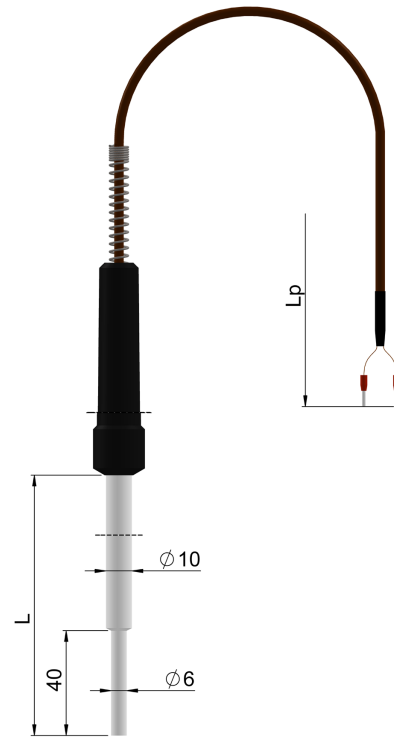


Temperature sensors for aggressive environments **TOPE-142**

Technical description

Measuring range / sensing element		
(-50 ÷ 250) °C	Pt100	class B
Thermowell		
– material of the sheath and handle: teflon		
– diameter [mm]: $\varnothing 6/\varnothing 10$		
– length L_{max} [mm]: =115		
Wire		
– Cu wire: 2, 3×0,22 mm ² in double teflon insulation		
– length L_p =1,5m (standard)		
Options		
– Pt500, Pt1000, Ni100, Ni1000		
– Pt100: class A (-30 ÷ 250) °C, class AA (0 ÷ 150) °C		
Additional accessories		
– mini plug SMPW – p. 198+199		



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	TOPE-142	- ... -	...-	..-
Sheath length L [mm]	100*					
Resistor class	A, B*					
Measuring circuit			2, 3, 4			
Cable length L_p [m]					1,5m*	
Additional accessories: mini plug						W

* or others acc. to requirements

Ordering example

TOPE-142-115-B-2-2m sensor with Pt100, class B, 2-wire connection connection, sheath graded $\varnothing 6/\varnothing 10$ mm with length L=115 mm, lead wire length L_p = 2m

TOPE-142-100-A-3-2m-W sensor with Pt100, class A, 3-wire connection, sheath graded $\varnothing 6/\varnothing 10$ mm with length L=100 mm, lead wire length L_p = 2m terminated with miniature plug