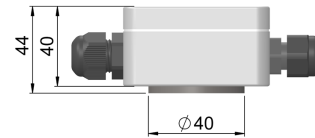
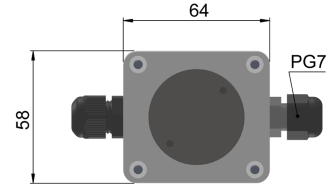


Temperature sensors for wall surface measurement **TOPM-5, TONM-5**

Dane techniczne

Measuring range / sensing element		
(-40 ÷ 85) °C	Pt100	class B
Thermowell		
– material: aluminium – measuring plate – diameter [mm]: $\varnothing 40$ – surface temperature measurement – mounting holes span: 57 mm		
Housing		
– polycarbonate, IP67 – max. of the environment humidity: 85% RH		
Options		
– Pt500, Pt1000, Ni100, Ni1000 – 2-, 3-, 4-wire connection – Pt100: class A or class AA		
Additional accessories		
– temperature transmitters – p. 225+241		



Response time T05/T09

Sensor type	$\varnothing 9$	$\varnothing 11$
Pt	$\leq 33/\leq 95$	$\leq 40/\leq 120$
J, K insulated junction	$\leq 22/\leq 62$	$\leq 27/\leq 90$
J, K grounded junction	$\leq 3/\leq 8$	$\leq 6/\leq 15$

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)	$\pm(0,3+0,005\cdot t)$

Ordering code

Temperature sensor	...	TO	...	M-5	-
Without transmitter		no sign								
With transmitter		AP								
Resistor Pt			P							
Resistor Ni			N							
Resistor type				Pt100*						
Resistor class							A, B*			
Measuring circuit								2, 3, 4		
Type of transmitter									RT-01*	
Setting of transmitter temperature										(0 ÷ 85) °C*

* or others acc. to requirements

Ordering example

TONM-5-Ni100-2 sensor with Ni100, 2-wire connection connection

APT0PM-5-Pt100-A-3-LTT-03BU-(0 ÷ 50) °C sensor with Pt100, class A, 3-wire connection, with transmitter LTT-03BU, temperature range (0 ÷ 50) °C