

Temperature Sensors for Air-conditioning and Ventilation System TOPK-851, TONK-851



Options

Temperature transmitter application

Temperature transmitter with standard 4÷20mA, 0÷10V output signals and with the HART or PROFIBUS communication protocols can be mounted in a housing, in place of a terminal strip, or in the control cabinet.

Non-standard design

Immersion length and other parameters can be customized per client request.

Calibrations performed by Limatherm Sensor Sp. z o.o. are confirmed with the Calibration Certificate of the Accredited Laboratory for Temperature Measurements.





Tolerance for classes of sensors with resistors Pt acc. to PN-EN 60751

Sensor classes	Range of application [°C]	Formula for calculating acceptable deviations [°C]	
AA	0÷150	$T = \pm (0, 10 + 0, 0017 t)$	
Α	-30÷300	$T = \pm (0,15 \pm 0,002 t)$	
В	-50÷500	T = ±(0,3 + 0,005 t)	

|t|- absolute value of temperature

Measurement circuit

1 x Pt100			2 x Pt100		1 x TC	2 x TC	
2-wire	3-wire	4-wire	2-wire	3-wire	4-wire	2-wire	2-wire
\checkmark	✓	✓	х	х	х	х	х

Mounting fittings



Connection schemes



Limatherm Sensor Sp. z o.o. Limanowa, tel. 18 337 99 19, fax 18 337 99 10, e-mail: export@limathermsensor.pl, www.limathermsensor.pl



Product code

		Sensor version				
		no designation	with terminal block			
1		AP	with transmitter			
		Resistor type				
		Ρ	resistor Pt			
2		Ν	resistor Ni			
		Sheath type				
		Ρ	perforated			
3		Z	closed-end			
		Resistor type				
		Pt100	Pt100			
4			other parameters acc. to requirements			
		Sheath length				
		100	100mm			
		200	200mm			
5			other parameters acc. to requirements			
		Accuracy				
6		A or B	for resistor Pt			
		Measurement circuit				
		2	2 - wire			
		3	3 - wire			
7		4	4 - wire			
		Transmitter type (optionally)				
		Тх	TxBlock transmitter			
8			other parameters acc. to requirements			
		Temperature range of transmitter				
		(0÷100°C)	transmitter configured for temperature range 0÷100°C			
9			other parameters acc. to requirements			



Ordering example:

TOPK-849P–Pt100–50–A–4 RTD sensor with Pt100 for measurement in ventilation channels, class A, 4-wire connection, perforated sheath