

TEMPERATURE TRANSDUCER TO ATEX ENVIRONMENT THTB4



DESCRIPTION:

- stability and resistance to vibrations
- stainless steel case with high resistance to external conditions and pressures
- various installations, on individual request
- variable methods of process connection

APPLICATION:

- petrochemical industry
 - heating industry
 - power engineering
- compressors, pumps
- gas distribution

TECHNICAL PARAMETERS:

- temperature ranges: -50-0, 0-60, 0-100, 0-120, 0-160, 0-200, 0-250, 0-300°C
 - output signal: 1-5V, 4-20mA
- connection: fixed thread, fixed flange, turning thread, turning flange
- accuracy class: 0,5%FS (standard), 1%FS

SPECIFICATION:

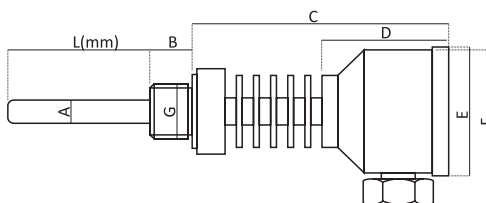
Temperature transducers THTB4 use Pt100 or similar temperature sensors. By means of the inbuilt transducer it converts the measured value to an analog output, for details see technical parameters.

Cylindric case of the THTB4 transducer features high strength of the outer coating and resistance (also suitable into ATEX environment). THTB4 construction, where the sensor is sealed by epoxy resin, features very good resistance to shocks and vibrations, resists temperature overloading and has a heavy-duty robust design. THTB4 is widely used for measurements and regulations in many industrial applications.

TECHNICAL PARAMETERS			
Measured medium	gas or liquid suitable for direct contact with stainless steel	Tolerance $\Delta^{\circ}\text{C}$	class A (0,15+0,002 t)
Measuring range	-50+300 $^{\circ}\text{C}$	Stability	0,15% FS/year
Output signal	4-20mA, 1-5V	Response time	<30s
Accuracy class	0,5%FS(standard); 1%FS	Voltage	$\leq 5\text{mA}$
Environment temp. range	-40+85 $^{\circ}\text{C}$	Atex environment	Ex IIBT4, ExdIIBT4
Relative humidity	5-95%		

THTB4	Range	measuring range: -50+300 $^{\circ}\text{C}$		
	(X1-X2) $^{\circ}\text{C}$	X1 - lower limit, X2 - upper limit of the measured temperature		
		Code	Output signal	
		O1	4-20mA	
		O2	0-5V	
		Oz	on request	
		Code	Connection	
		T0	fixed thread	
		T1	fixed flange	
		T2	turning thread	
		T3	turning flange	
		Tz	on request	
		Code	Electrical connection	
		To	PVC cable	
		T1	DIN 43650	
		T2	cable connector	
		E0	non-explosive environment	
		E1	fire-resistant environment EX II CT6	
		E2	ATEX environment EX II CT6	
		T	on request	
		Code	Length L (mm)	

THTB4	(0-200) $^{\circ}\text{C}$	O1	T0(G1/2)	P2	80
	Range	Output signal	Connection	Electric. connect.	Length



Dimensions in mm							
A	B	C	D	E	F	G	L
$\varnothing 8$	15	~102	46	46	57	see table of specification	