

# PRESSURE TRANSDUCER FOR HIGH TEMPERATURES series THPB8, THIPB8 (HART)



#### DESCRIPTION:

- suitable for high temperature measurements (max. 180°C)
  - reliable performance, good long-term stability
  - resistance to corrosion and vibrations
- protection from reverse polarity, current protection, overvoltage protection

#### APPLICATION:

- metallurgical industry
  - power engineering
  - food industry
  - health care
- chemical industry

#### TECHNICAL PARAMETERS:

- measure ranges: -1-0...0,04- 1000bar
  - output signal: 4-20mA, 1-5V, 4-20mA HART/THIPB8
- connection: G1/4 ( G1/2, M20x1,5, 1/4 NPT)
  - supply voltage: 10-36V DC
- accuracy class: 0,25% FS ; 0,5%FS (standard)
  - pressure type: relative, absolute

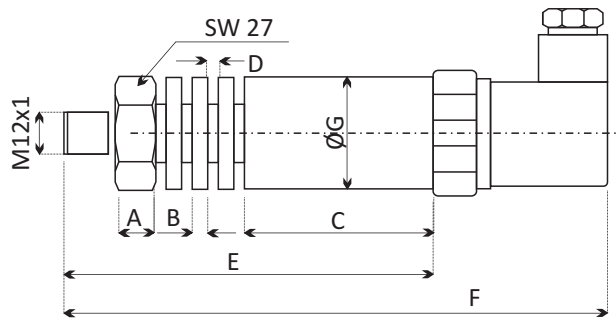
#### SPECIFICATION:

Pressure transducer for high temperatures THPB8 is designed for measurements of high temperature mediums. THPB8 uses a special sensor, that may be in direct contact with the monitored medium. This technology enables compact size of THPB8.

Transducers cylindrical case is made of stainless steel, including cooling and process connection. THPB8 is fully tested on computer and zero value is set by means of laser with high sensitivity in wide range of temperature ranges.

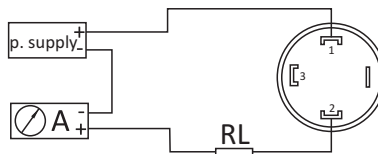
Some of the assets of the transducer are high accuracy, high temperature resistance up to 180 °C and high stability of measurement independent on temperature change. THPB8 is suitable for pressure measuring in most industrial applications with high liquid and gases temperatures, in aviation, health care, power engineering, food and chemical industry.

Technical parameters			
Medium	gas or liquid suitable for contact with stainless steel	Middle value of range	-20+145°C or -20+175°C
Range	-1-0...0,04-1000bar	Operational temperature range	-40+135°C
Accuracy class	0,25%FS; 0,5%FS (standard)	Elect. connection	DIN 43650 and other see table
Pressure type	relative (G), absolute (A)	Connection	G1/4 (G1/2, M20x1,5, 1/4NPT)
Stability	<0,2%FS/year	Sealing	N-Butyronitril/fluor sealing ring
Output signal	4-20mA, 1-5V 4-20mA HART/THIPB8	Connector material	stainless steel 17 248/1.4341
Stability	<0,5%FS/year	Response time	<1ms
Loading resistance	RL=(U-10V)/0,02A (4-20mA current output) U - loop voltage (V)	Supply voltage	10-36V DC
		Overloading	200%FS (max. 150MPa)



Dimensions in mm								
A	B	C	D	E	F	G	M	SW
10	4	50	3	98	144	30	M12x1	27

Wiring diagram



Order code:

THPB8, THIPB8(HART)					
Range	measure range: -1-0...0,04-1000bar				
(X1-X2)bar	X1 - bottom limit of measure range, X2 - upper limit of measure range				
Code	Pressure type				
G	relative				
A	absolute				
Code	Accuracy class				
C	0,25%				
D	0,5%				
Code	Output signal				
O1	4-20mA				
O2	0-5V				
O3	1-5V				
Oz	on request				
Code	Connection				
P1	G1/4				
P2	G1/2				
P3	1/4NPT				
P4	M20x1,5				
Pz	on request				
THPB7	(-1-10)bar	G	D	O1	P2
	Range	Pressure type	Accuracy class	Output signal	Other

