



PRESSURE TRANSDUCER FOR HIGH PRESSURES series THPB7, THIPB7 (HART)

DESCRIPTION:

- high accuracy, high tightness
- wide range of applications, long life-time
 - long-term stability
- resistance to corrosion, abrasion and impact

APPLICATION:

- metallurgy
- power engineering
 - hydraulics
- chemical industry
- health-care

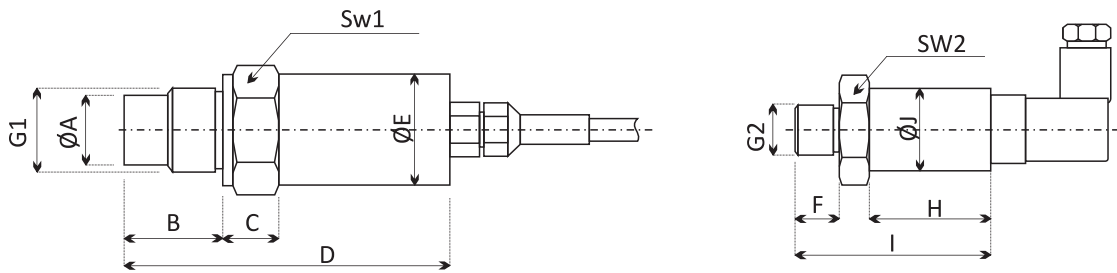
TECHNICAL PARAMETERS:

- measuring ranges: 0-10..5000bar
- output signal: 4-20mA, 0-5V, 0-10V, 1-5V, 4-20mA HART/THIPB7
- connection: G1/4 (G 1/ 2, M20x1,5, M22x1,5)
 - supply voltage: 12-36V DC
- accuracy class: 0,1%FS, 0,25% FS ; 0,5%FS (standard)
 - pressure type: relative, absolute

SPECIFICATION:

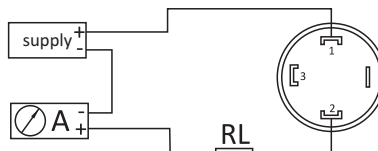
Pressure transducer THPB7 uses advanced metal foil as a sensor element. THPB7 uses Wheatstone bridge to convert pressure load into mV electric signal, which is then transferred onto a standard output. Thanks to the small size of the sensor unit it may be used in various versions, either with front membrane or with opened connection. Transducers cylindrical case is made of stainless steel, including process connection. THPB7 is fully tested on computer and zero value is set by means of laser that enables high sensitivity in wide range of temperatures. Some of the assets of the transducer are the integrated construction, its sturdy and heavy-duty design, high accuracy and long-term stability. THPB7 is designed for medium and high pressure measurements up to 5000bar. THPB7 is suitable for measurements in most industrial applications, used mainly in chemical, metallurgical industry, power engineering, hydraulics, health care, etc.

Technical parameters			
Medium	gas or liquid suitable for direct contact with stainless steel	Storing temperature	-30+100°C
Range	0-10...5000bar	Working temp. range	-20+80°C
Accuracy class	0,1%FS; 0,25%FS; 0,25FS standard	Elect. connection	DIN43650 and other see table
Pressure type	relative (G), absolute (A)	Connection	G1/4 (G1/2, M20x1,5, M22x1,5)
Output signal	4-20mA, 0-5V, 0-10V, 1-5V 4-20mA HART/THIPB7	Membrane mater.	17-4PH
Stability	<0,2%FS/year	Connection material	stainless steel 17 248/1.4541
Loading resistance	$RL=(U-12V)/0,02A$ (4-20mA current output) U - loop voltage V	Case material	stainless steel 17 248/1.4541
Power supply voltage	12-36V DC	Sealing	N-butyronitril or fluor sealing ring
		Overloading	150%FS



Dimensions in mm												
A	B	C	D	E	F	G1	G2	H	I	J	SW1	SW2
17	24,5	12	86,5	27	14	G1/2	G1/4	30	52	22	27	22

Wiring diagram



Order code:

THPB7, THIPB7(HART)	
Range	measuring range: 0-10...5000bar
(0-X) bar	X - measured range
Code	Pressure type
G	relative
A	absolute
Code	Accuracy class
B	0,1%
C	0,25%
D	0,5%
Code	Output signal
O1	4-20mA
O2	0-5V
O3	1-5V
O4	0-10V
O5	0,5-4,5V
Oz	on request
Code	Other
E1	DIN 43650
E2	cable connector
E3	PVC shielded cable
Ez	other el. connections
D1	3-1/2 LCD
D2	3-1/2 LED
P1	G1/4 embedded membr.
P2	G1/2 embedded membr.
P4	M20x1,5 embedded membr.
P7	M22x1,5 embedded membr. (for high pressures)
P8	front membrane (G1/2): 0-10....1200bar
Pz	on request

THPB7	(0-100)bar	G	D	O1	E1(D2) P4
	Range	Pressure type	Accuracy class	Output signal	Other

