

PRESSURE TRANSDUCER WITH FRONT MEMBRANE series THPB2, THIPB2 (HART)



DESCRIPTION:

- front membrane - construction without input pressure hole
- automatic testing, laser zero setting
- high accuracy and strength
- membrane type of connection against impurities
- protection from reverse polarity, current protection, overvoltage protection

APPLICATION:

- food industry
- health care
- viniculture, wine-making

TECHNICAL PARAMETERS:

- measure ranges: -1-0-...0,1-350bar
- output signal: 4-20mA; 0-5V; 0-10V; 1-5V, 4-20mA HART/THIPB2
- connection: G1/2 (G1/4, M12x1,5, M20x1,5, 1/2 NPT)
 - supply voltage: 12-36V DC
- accuracy class: 0,25% FS (standard); 0,5%FS
 - pressure type: relative, absolute
 - environment temperature: -40+125 °C

SPECIFICATION:

Pressure transducer THPB2 works on the principle of piezo-resistant technology, as a sensor unit THPB2 uses a chip.

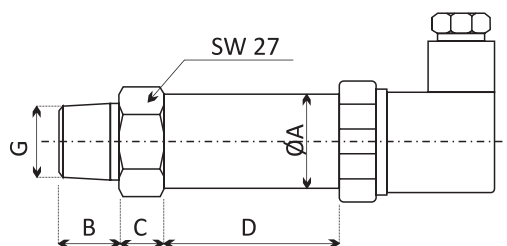
Transducers cylindric case is made of stainless steel, including process connection. Process connection may be threaded, with front membrane, clamp or flange. Connection with front membrane is suitable as a protection against sediment load, crystallization, high viscosity liquids and similar mediums.

THPB2 is fully tested on computer and zero value is set by means of laser with high sensitivity in wide range of temperature ranges.

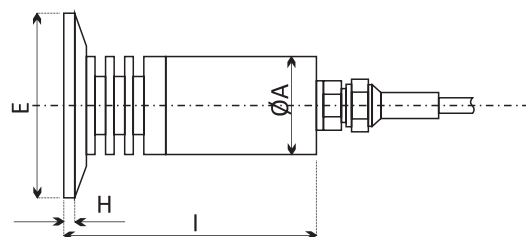
Some of the assets of the transducer are its sturdy and heavy-duty design, high accuracy and long-term stability. THPB2 is widely used in food industry, health care, viniculture, etc.

Technical parameters			
Medium	gas or liquid suitable for direct contact with stainless steel	Storing temperature	-40+120°C
Range	-1-0...0,1-350bar	Working temper. range	-30+80°C
Accuracy class	0,25%FS; 0,5%FS (standard)	Electr. connection	DIN 43650, other, see table
Pressure	relative (G), absolute (A)	Connection	G1/2 (G1/4, M12x1,5, M20x1,5, 1/2NPT)
Output signal	4-20 mA, 0-5V, 0-10V, 1-5V 4-20 mA HART/THIPB2	Connection mater.	st. steel 17 248/1.4541
		Membrane mater.	st. steel 17 348/1.4571
Stability	<0,2%FS/year	Case material	st. steel or Al alloy
Loading resistance	$RL=(U-12V)/0,02$ (4-20mA current output) U - loop voltage (V)	Medium environ. temperature	-40+125°C
Supply voltage	12-36V DC	Overloading	150%FS

• Type I (PT 1/2)

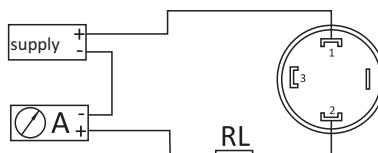


• Type II (2'' clamp)



Dimensions in mm									
A	B	C	D	E	F	G	H	I	SW
27	18	10	46	50,4	27	G1/2PT	2,8	67	27

Wiring diagram



Order code:

THPB2 - I	Typ I						
THPB2 - II	Typ II						
	Range	measure range: -1-0...0,1-350bar					
	(X1–X2)	X1 - lower limit of the measuring range, X2 - upper limit of the measuring range					
		Code	Pressure				
		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		
					Code	Connection	
					P2	G1/2	
					P4	M20x1,5	
					Pc	2“clamp	
					Pz	on request	
						Code	Elect. connect.
						E1	DIN 43650
						E2	cable connector
						E3	PVC shielded cable
						Ez	on request
THPB2	(0-200)bar	G	D	O1	P2	E1	
	Range	Pressure type	Accuracy class	Output signal	Connection	Electrical connection	

