



CAPACITY PRESSURE TRANSDUCER WITH CERAMIC MEMBRANE series THPB10, THIPB10 (HART)

DESCRIPTION:

- high resistance to wear and shocks
 - long-term stability
- protection from reverse polarity, current protection, overvoltage protection

APPLICATION:

- metallurgical industry
 - power engineering
 - hydrology
 - chemical industry

TECHNICAL PARAMETERS:

- measure ranges: -2,5-0,5...0,5- 5kPa
-10-1...0-10kPa, 0-2...20kPa
- sensor ranges: 0-5kPa, 0-10kPa, 0-20kPa
- output signal: 4-20mA, 4-20mA HART/THIPB10
 - connection: G1/2 (M20x1,5, M42x1,5)
 - supply voltage: 12-30V DC
- accuracy class: 0,5%FS; 1%FS (standard)
 - pressure type: relative, absolute

SPECIFICATION:

Pressure transducer THPB10 works on principle of pressure measuring using capacity technology with ceramic sensor.

THPB10s cylindric case is made of stainless steel, including process connection.

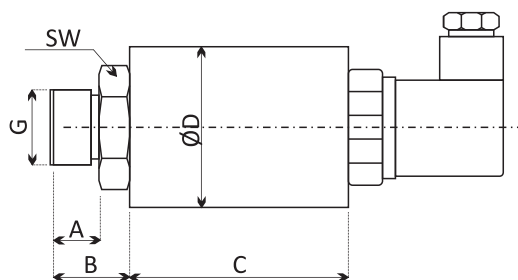
Pressure transducer is designed for measurements of low pressures in corrosive and aggressive mediums and in demanding conditions.

THPB10 uses high quality ceramic sensor and special amplifier. THPB10 has an integrated construction, long-term stability, high anti-corrosive resistance and high resistance to pressure shocks.

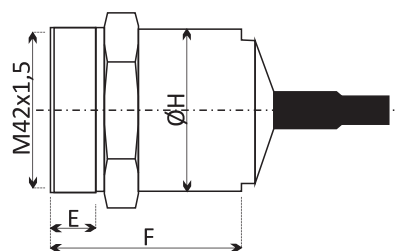
THBP10 is suitable for measuring and control of low pressures in chemical industry, metallurgy, power engineering, hydrology, etc.

Technical parameters				
Medium	gas or liquid suitable for direct contact with stainless steel			Environment temper. range
Sensors range	0-5kPa	0-10kPa	0-20kPa	Medium temp.
Range	-2,5-0,5...0,5-5	-10-1...1-10	0-2...20kPa	Storing temp.
Accuracy class	0,5%FS; 1%FS (standard)			Elect. connection
Pressure type	relative (G), absolute (A)			Connection
Stability	<0,5%FS/year			Sealing
output signal	4-20mA 4-20mA HART/THIPB10			Connection mater.
Overloading	400kPa, 600kPa (for range 20kPa)			Membrane mater.
Loading resistance	$RL = (U - 12V) / 0,02A$ (4-20mA current output) U - loop voltage (V)			
Power supply voltage	12-30V DC			

• inner hollow

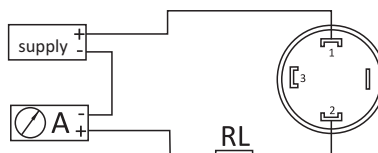


• front membrane



Dimensions in mm									
A	B	C	D	E	F	G	H	M	SW
12	20	57	42	12	~50	G1/2	43	M42x1,5	27

Wiring diagram:



Order code:

THPB10, THIPB10(HART)					
Range (X1-X2)	X1- lower limit, X2 - upper limit of the measuring range				
	Code	Range			
	R1	-2,5-0,5...0,5-5kPa			
	R2	-10-1...1-10kPa			
	R3	0-2...20kPa			
	Code	Pressure			
	G	relative			
	A	absolute			
	Code	Accuracy class			
	D	0,5%			
	E	1%			
	Code	Pressure connection			
	P4	G1/2			
	Px	M42x1,5			
	Pz	on request			
	Code	Connection			
	E1	DIN 43650			
	E2	waterproof connector			
	I	ATEX environ., EX II CT6			
THPB10	(-2~10)bar	G	D	P4	E1(I)
	Range	Pressure type	Accuracy class	Pressure connect.	Other

