



PRESSURE TRANSDUCER WITH HIGH FREQUENCY RESPONSE

series THPB4, THIPB4
(HART)

DESCRIPTION:

- monitoring frequency based on MEMS chip
 - high accuracy and stability
 - immediate response

APPLICATION:

- petrochemical industry
 - food industry
 - hydraulics
- chemical industry

TECHNICAL PARAMETERS:

- measuring ranges: 0-0,1..1000bar
 - output signal: 0-5V
4-20mA HART/THIPB4
- connection: G1/4 (M12x1, M20x1,5)
 - supply voltage: 12-32V DC
- accuracy class: 0,1%FS, 0,25% FS ; 0,5%FS (standard)
 - pressure type: relative, absolute

SPECIFICATION:

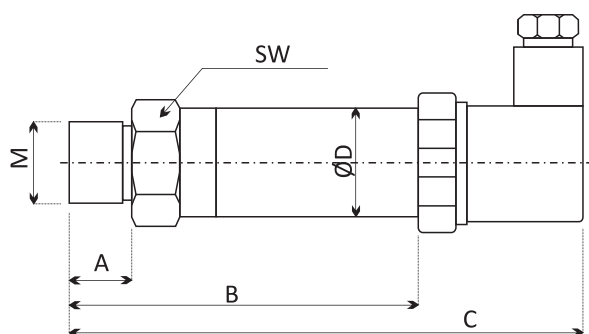
Pressure transducer THPB4 works with a high frequency pressure sensor and a special closed circuit of high frequency characteristics.

THPB4 works on high frequency of monitoring (max. 1MHz).

Transducers cylindrical case is made of stainless steel, including process connection.

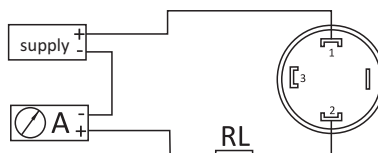
Some of the assets of the transducer are its sturdy and heavy-duty design, high accuracy and long-term stability. THPB4 is suitable for dynamic measuring and monitoring of pressures in real time. Mainly used in chemical, petrochemical, oil industry and in military research, explosive experiments, mechanical and hydraulic testing, mechanization of measuring devices and developments of mechanical constructions.

Technical parameters			
Medium	gas or liquid suitable for direct contact with stainless steel	Mediums storing temper.	-40+120°C
Range	0-0,1...1000bar	Working temper. range	-40+100°C
Accuracy class	0,1%FS; 0,25%FS; 0,5%FS (standard)	Electr. connection	DIN 43 650 and other see table
Pressure	relative (G), absolute (A)	Connection	G1/4 (M20x1,5, M12x1)
Output signal	0-5V and other voltages of output signal 4-20mA HART/THPB4	Connection material	stainless steel 17 248/1.4541
Stability	<0,2%FS/year	Case material	stainless steel 17 248/1.4541
Dynamic frequency response	1 MHz max.	Overloading	≥200%FS
Power supply	12-32V DC		



Dimensions in mm					
A	B	C	D	M	SW
18	98	135	27	M20X1,5	27

Wiring diagram



Order code:

THPB4,THIPB4	Type		
	Range	measuring range: 0-0,1...1000bar	
	(X - 0)	X - upper limit of required range	
	Code	Pressure type	
	G	relative	
	A	absolute	
	Code	Accuracy class	
	B	0,1%	
	C	0,25%	
	D	0,5%	
	Code	Output signal	
	O1	0-5V and other voltages of output signal	
	Code	Connection	
	P1	G1/4	
	P4	M20x1,5	
	P6	M12x1	
	Pz	on request	
	Code	Elect. connect.	
	E1	DIN 43650	
	E2	cable connector	
	E3	PVC shielded cable	
	Ez	on request	

THPB4	(0-10)bar	G	D	O1	P1	E1
	Range	Pressure type	Accuracy class	Output signal	Connection	Electric. connection

