



## PRESSURE TRANSDUCER FOR DIFFERENTIAL PRESSURE series THPB5, THIPB5

### DESCRIPTION:

- good value for money, long-term stability
  - resistance to overloading up to 200%,  
to overpressure up to 100%
- protection from reverse polarity, current protection,  
overvoltage protection
  - easy installation
- integrated construction in stainless steel design

### APPLICATION:

- food industry
- power engineering
  - health care
- petrochemical industry

### TECHNICAL PARAMETERS:

- measuring ranges: 0-0,1...35bar
- output signal: 4-20mA, 0-5V, 0-10V; 1-5V; 0,5-4,5V  
4-20mA HART/THIPB5
  - connection: G1/4 inner thread ( M12x1,5)
- accuracy class: 0,1% FS ; 0,25%FS (standard)
  - pressure type: differential

### SPECIFICATION:

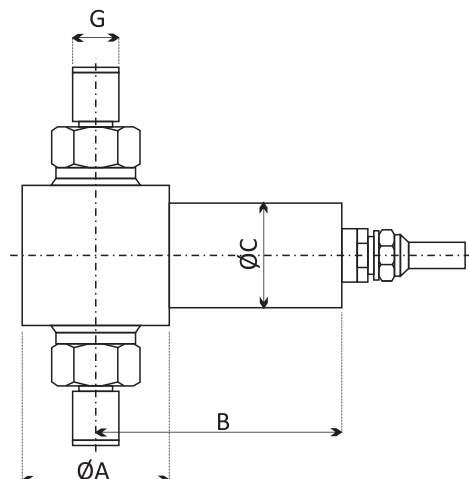
Pressure transducer of differential pressure works on the principle of piezo-resistant technology, as measure element it uses a differential sensor with insulated stainless steel membrane.

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

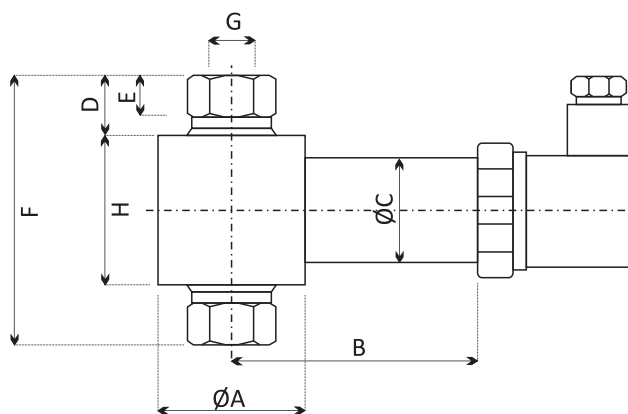
Some of the assets of the transducer are its integrated construction, heavy duty and sturdy design, high accuracy and long-term stability. THPB5 is suitable for pressure measuring and regulation of corrosive mediums in most industrial applications, in petrochemical industry, power engineering, health care, hydraulics, airconditioning, etc.

Technical parameters			
Medium	gas or liquid suitable for direct contact with stainless steel	Storing temper.	-40+100°C
		Supply voltage	12-36V DC
Range	0-0,1...35bar 200%FS (differential pres.), 1000%FS (static pres.)	Working temper. range	-30+80°C
		Electric. connect.	DIN 43650 and other see table
Accuracy class	0,1%FS, 0,25%FS (standard) , 0,5%FS	Compensating temper. range	0-70°C
Pressure type	differential (D)	Connect. material	stainless steel 17 248/1.4541
System pressure	1000%FS	Membrane mater.	stainless steel 17 348/1.4571
Output signal	4-20mA, 0-5V, 0-10V, 1-5V, 0,5-4,5V 4-20mA, HART / THIPB5	Connection	G1/4 inner thread (M12x1,5)
Stability	<0,2%FS/year	Sealing	N - butyronitril or fluor sealing ring
Loading resistance	RL=(U-12V)/0,02A (4-20mA current output) U-loop voltage (V)		
Pressure effect in system	0,05%FS/bar		

• THPB5 with cable connector

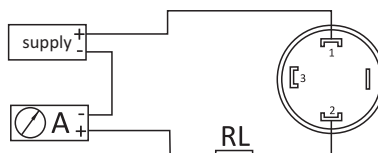


• THPB5 with DIN connector



Dimensions in mm							
A	B	C	D	E	F	G	H
39	66	27	15	10	66	G1/4	36

Wiring diagram



Order code:

THPB5, THIPB5(HART)	
Range	measuring range: 0-0,1...35bar
(0-X)bar	X- measuring range
Code	Pressure type
D	differential
Code	Accuracy class
B	0,1%
C	0,25%
D	0,5%
Code	Output signal
O1	4-20mA
O2	0-5V
O4	0-10V
Oz	on request
Code	Other
E1	DIN 43650
E2	cable connector
E3	PVC shielded cable
Ez	other el. connections
D1	3½ LCD
D2	3½ LED
Pn	G1/4 inner thread
Pa	relief valve
P6	M12x1,5 outer thread
Pz	on request

THPB 5	(0-1)bar	D	D	O1	E1(D1)Pn
	Range	Pressure type	Accuracy class	Output signal	Other

