



PRESSURE TRANSDUCER WITH INCREASED RESISTANCE TO CORROSION series THPB3-c, THIPB3-c (HART)

DESCRIPTION:

- used for aggressive mediums with corrosive effects
 - PVDF - material of wetted parts of ceramic membrane (96% Al2O3)

APPLICATION:

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

TECHNICAL PARAMETERS:

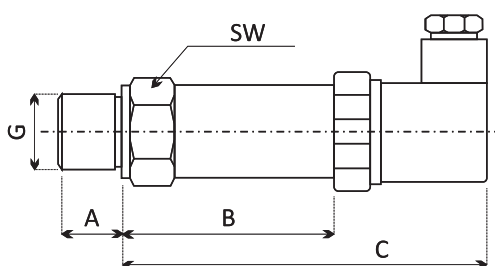
- measure ranges: 0-1...200bar
- output signal: 4-20mA, 0-5V, 0-10V, 1-5V
4-20mA HART/THIPB3-c
- connection: G1/4 (G1/2, M20x1,5, 1/2NPT)
- supply voltage: 12-36V DC
- accuracy class: 0,25%FS, 0,5%FS (standard)

SPECIFICATION:

Pressure transducer THPB3-c with increased resistance to corrosion comes from the same technical basis as transducer THPB3. Pick-up membrane THPB3-c is ceramic, the inbuilt wetted parts are separated by a separating membrane made of polyvinylidenfluorid (PVDF), thanks to which this model has increased resistance to corrosion 96% Al2O3.

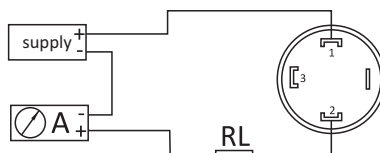
Transducers cylindric case is made of stainless steel. THPB3-c is fully tested on computer and zero value is set by means of laser with sensitivity in wide range of temperatures. THPB3-c is designed for pressure measurement of corrosive mediums in most industrial applications, widely used for pressure measurement in petrochemical industry, power engineering, food industry, health care, hydrology, etc.

Technical parameters			
Medium	gas or liquid compatible with ceramic material and PVDF	Compensating temper. range	0-70°C
Rozsah	0-1...200bar	Working temper. range	-30+95°C
Accuracy class	0,25%FS, 0,5%FS (standard)	Electric. connect.	DIN 43650 and other see table
Pressure type	relative (G), absolute (A)	Connection	G1/4 (G1/2, M20x1,5, 1/2NPT)
Output signal	4-20mA, 0-5V, 0-10V, 1-5V 4-20mA, HART / THIPB3-c	Connection mater.	polyvinylidenfluorid (PVDF)
		Membrane mater.	ceramic (96%AL ₂ O ₃)
Stability	<0,2%FS/year	Case material	stainless steel 17c248/1.4541
Loading material	RL=(U-12V)/0,02A (4-20mA current output) U-loop voltage (V)	Storing temper.	-40+100°C
Power supply voltage	12-36V DC	Overloading	150%FS



Dimensions in mm				
A	B	C	G	SW
14	56	~95	G1/2	27

Wiring diagram



Order code:

THPB3-c, THIPB3-c (HART)						
Range		measuring range: 0-1...200bar				
(0-X)bar		X- measuring range				
Code		Pressure type				
G		relative				
A		absolute				
Code			Accuracy class			
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	
P3					1/2NPT	
P4					M20x1,5	
Pz					on request	
Code						Electric. connect.
E1						DIN 43650
E2						cable connector
E3						PVC shielded cable
Ez						on request
THPB3-c	(0-200)bar	G	D	O1	P2	E1
	Range	Pressure type	Accuracy class	Output signal	Connection	Electrical connection

