

STRAIN GAUGE PRESSURE TRANSMITTER

series THPB7, THIPB7 (HART)

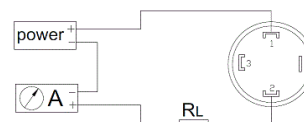


Specification:

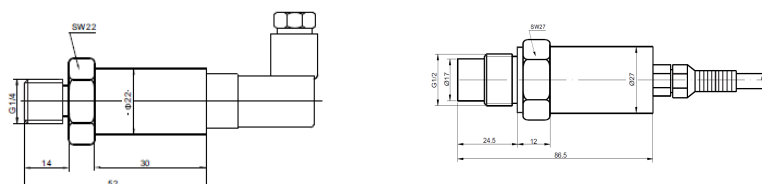
THPB7 strain gauge pressure transmitter uses advanced metal foil strain gauges as sensing element. Those strain gauges consist a Wheatstone bridge and can feel the changes of the strain gauge's resistance and convert these changes to "mV" electrical signal, the signal will be amplified to standard current or voltage output after it is conducted by the special amplifiers. As the sizes of strain gauges are very small and can be designed so many different types to suit different situations, the transmitter's pressure port is designed flush diaphragm or cavity for user's option, the application of THPB7 strain gauge pressure transmitter is very wide these days, it is suitable for the measurement of middle pressure and high pressure .

Description:

- Good sealing, high accuracy
- Wide application scope, long service life
- Good long term stability
- Anti corrosion anti attrition anti impact
- Suitable for the measurement of middle pressure and high pressure



TECHNICAL PARAMETERS			
Pressure medium	gas or liquid compatible to stainless steel	Supply voltage	12~36VDC
Pressure ranges	0~10...5000bar	Operating temperature range	-20~+80℃
Pressure typ	gauge(G), absolute(A)	Storage temperature range	-30~+100℃
Overload pressure	150%FS	Process connection	G1/4, G1/2, M20x1,5, M22 x 1,5
Output signal	4~20mA, 0~5V, 0~10V, 1~5V 4~20mA HART / THIPB7	Electrical connection	DIN43650 connector or others
Accuracy	0.1%FS, 0.25%FS, 0.5%FS(standard)	Material of wetted part	321
Load resistance	RL=(U-12V)/0.02A (4~20mA current output) U—loop voltage (V)	Material of pressure membrane	17- 4PH
Long-term stability	<0.2%FS/year	Material of housing	321



Order code:

THPB7					
	Range	Pressure type	Accuracy	Output signal	Others



THPB7, THIPB7(HART)					
	Range	measuring range: 0~ 10...5000bar			
	(0~ X) bar	X: actual measuring range			
		Code	Pressure type		
		G	gauge		
		A	absolute		
			Code	Accuracy	
			B	0,1%	
			C	0,25%	
			D	0,5%	
				Code	Output signal
				O1	4 ~20mA
				O2	0 ~ 5V
				O3	1 ~ 5V
				O4	0 ~ 10V
				O5	0,5 ~ 4,5V
				Oz	customer request
				Code	Others
				E1	DIN 43650
				E2	aviation connector
				E3	shielded PVC cable
				Ez	other electrical conn.
				D1	3-1/2 LCD
				D2	3-1/2LED
				P1	cavity type G1/4
				P2	cavity type G1/2
				P4	cavity type M20x1,5
				P7	cavity type M22x1,5 for high pressure
				P8	Flush diaphragm (G1/2): 0 – 10bar 1200bar
				Pz	customer request

THPB7	(0-100)bar	G	D	O1	E1(D2)P4
	Range	Pressure type	Accuracy	Output signal	Others