

SILICON PRESSURE TRANSMITTER

series THPB1, THIPB1(HART)

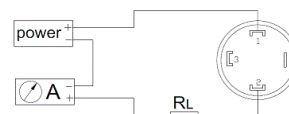


Specification:

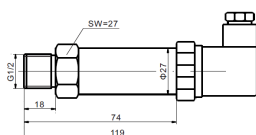
Based on piezo-resistive silicon technology, THPB1 silicon pressure transmitter uses isolated stainless steel diaphragm as sensing element. This product is fully tested by computer automatically, and trimmed by laser for zero and sensitivity in a wider temperature range. Its amplifier circuit is built in stainless steel housing, to transform sensor signal into standard output signal. This transmitter features integrated construction, rigid and robust, high measuring accuracy, good long term stability, and is suitable for pressure measurement in general industry applications. This product is widely used for pressure measurement and control of petroleum, chemical industry, metallurgy, power station and hydrology, etc.

Description:

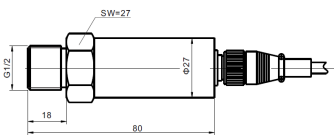
- Full stainless steel construction
- Suitable for the measurement of low pressure and vacuum pressure
- Automatic testing, laser trimming compensating zero & sensitivity
- Against thunder stroke, against radio-frequency interference
- Anti-corrosion, anti-abrusion, anti-impact
- Reversed-polarity, transient current & voltage protection



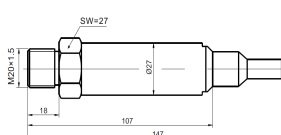
TECHNICAL PARAMETERS			
Pressure medium	gas or liquid compatible to stainless steel	Operating temperature range	-30~80°C
Pressure ranges	-1...0~0.1...1000bar	Storage temperature range	-40~120°C
Pressure type	gauge(G), absolute(A)	Process connection	G1/2 , G1/4, M12 x1,5, M20 x1,5, NTP1/2 etc.
Overload pressure	150%FS	Electrical connection	DIN 43650 or others
Output signal	4~20mA, 0~5V, 0~10V, 1~5V, 0.5~4.5V / 4~20mA HART / THIPB1	Material of wetted part	321
Accuracy	0.1%FS, 0.25%FS(standard), 0.5%FS	Material of pressure membrane	316L
Load resistance	RL=(U-12V)/0.02A (4~20mA current output) U—loop voltage (V)	Material of housing	321
Long-term stability	<0.2%FS/year	Sealing	n-Butyronitrile or fluoro-rubber sealing ring
Supply voltage	12~36VDC		



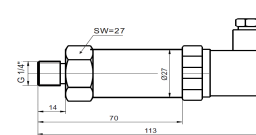
Hirschmann Connector



Aviation Connector



Water-proof Connector



Hirschmann Connector

Order code:

THPB1					
	Range	Pressure type	Accuracy	Output signal	Others



THPB1, THIPB1(HART)				
	Range	measuring range: -1...0~0.1...1000bar		
	(X1~ X2)	X1: lower limit of actual measuring range. X2: higher limit of 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	water-proof conn.
			E4	cable(lock nut)
			Ez	other electrical conn.
			D1	3-1/2 LCD
			D2	3-1/2LED
			I1	Ex II CT6
			P1	G1/4
			P2	G1/2
			P3	1/4NPT
			P4	M20 x 1,5
			P9	flange type
			Pz	customer request

THPB1	(0-10)bar	G	D	O1	E1(D2I1)P2
	Range	Pressure type	Accuracy	Output signal	Others