

## SILICON DIFFERENTIAL PRESSURE TRANSMITTER

### series THPB5, THIPB5

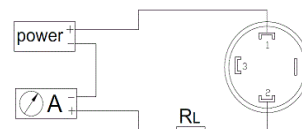


#### Specification:

Based on piezo-resistive silicon technology, THPB5 differential pressure transmitter uses silicon differential pressure sensors with stainless steel isolated diaphragm as measuring elements. Made from 316L stainless steel and designed of rigid and robust construction, THPB5 differential pressure transmitter is suitable for application in harsh environment and measurement with corrosive pressure media. This product has widely been used for measurement of differential pressure of pipeline fluids in petroleum industry, chemical industry, electric power hydrology etc.

#### Description:

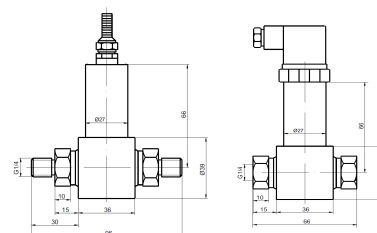
- Reliable performance, good long term stability
- Good static pressure, good ability of anti-impact and overload pressure
- Strong reversed polarity protection and current limiting protection
- Light weight, easy installation
- Integrated stainless steel construction design, small volume



TECHNICAL PARAMETERS			
Pressure medium	gas or dilute liquid compatible to stainless steel	Supply voltage	12~36VDC
Pressure ranges	0~0.1bar...35bar	Compensated temperature range	0~70°C
Pressure type	differential (D)	Operating temperature range	-20~+80°C
Overload pressure	200%FS (positive pressure side), 100%FS (negative pressure side)	Storage temperature range	-40~+100°C
System pressure	1000%FS	Process connection	G1/4 internal thread ,M12x1
Output signal	4~20mA, 0~5V, 0~10V, 1~5V, 0.5~4.5V 4~20mA HART / THIPB5	Electrical connection	DIN43650 connector or others
Accuracy	0.1%FS (range>1bar), 0.25%FS (standard), 0.5%FS	Material of wetted part and housing	321
System pressure effect	0,05%FS/bar	Material of pressure membrane	316L
Load resistance	$RL = (U - 12V) / 0.02A$ (4~20mA current output) U—loop voltage V	Sealing	n-Butyronitrile or fluoro-rubber sealing ring
Long-term stability	<0.2%FS/year		

#### Order code:

THPB5					
	Range	Pressure type	Accuracy	Output signal	Others





THPB5, THIPB5 (HART)					
	<b>Range</b>	measuring range: 0~0,1bar...35bar			
	(0~ X) bar	X : actual measuring range			
		<b>Code</b>	<b>Pressure type</b>		
		D	differential		
			<b>Code</b>	<b>Accuracy</b>	
			B	0,1%	
			C	0,25%	
			D	0,5%	
				<b>Code</b>	<b>Output signal</b>
				O1	4 ~20mA
				O2	0 ~ 5V
				O4	0 ~ 10V
				Oz	customer request
				<b>Code</b>	<b>customer request</b>
				E1	DIN 43650
				E2	aviation connector
				E3	shielded PVC cable
				Ez	other Electrical connection
				D1	3-1/2LCD
				D2	3-1/2 LED
				Pn	G 1/4 female thread
				Pa	Air faucet
				P6	M12x1 male thread
				Pz	customer request

THPB5	(0 -1)bar	D	D	O1	E1(D1)Pn
	Range	Pressure type	Accuracy	Output signal	Others


**LCD display**

**LED display**