

HIGH TEMPERATURE PRESSURE TRANSMITTER series THPB8, THIPB8 (HART)



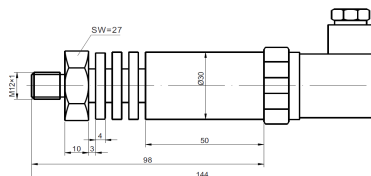
Specification:

THPB8 high temperature pressure transmitter is designed for the measurement of high temperature medium, it uses special pressure sensors whose pressure diaphragm can be contacted by pressure medium directly. This product uses temperature radiation to isolate its amplifying circuits, this not only guarantees THPB8's small volume and good performance, but also make this product enhance the measured medium temperature range. The performance of THPB8 is very reliable after strict tests and aged screening, it is suitable for pressure measurement in many industrial sites. THPB8 high temperature pressure transmitter presently is widely used for measurement of high temperature gas or liquid in aerospace, petroleum chemical industry, metallurgy, electric power, food, medicine, scientific research etc.

Description:

- suitable for the measurement of high temperature (max.175°C, low temperature, and normal temperature medium
- reliable performance, good long-term stability
- anti-impact, anti-vibration, anti-corrosive
- reversed polar protection and current limiting protection

| TECHNICAL PARAMETERS | | | |
|----------------------|--|-------------------------------------|-----------------------------|
| Pressure medium | gas or liquid compatible to stainless steel | Supply voltage | 10~36VDC |
| Pressure ranges | -1...0~0.04bar...1000bar | Operating temperature range | -40~+135°C |
| Pressure type | gauge(G), absolute(A) | Medium temperature range | -20~+145°C or -20~+175°C |
| Overload pressure | 200%FS and 150MPa/choose smaller/ | Process connection | G1/4, G1/2, M20x1.5, 1/4NTP |
| Output signal | 4~20mA, 1~5V 4~20mA Hart / THIPB8 | Electrical connection | DIN 43650 others |
| Accuracy | 0.25%FS, 0.5%FS /standard/ | Material of wetted part and housing | 321 |
| Load resistance | RL=(U-10V)/0.02A(4~20mA current output) U—loop voltage V | Response time | <1ms |
| Long-term stability | <0.5%FS/year | | |



Order code:

| | | | | | |
|-------|-------|---------------|----------|---------------|--------|
| THPB8 | | | | | |
| | Range | Pressure type | Accuracy | Output signal | Others |



| THPB8, THIPB8(HART) | | | | | | | |
|---------------------|--------------|---|------------------|------|----------|------|------------------|
| | Range | measuring range: -1...0~ 0,4...1000bar | | | | | |
| | (X1~ X2) bar | X1 – lower limit of actual measuring range X2 higher limit of (X1~X2)bar , : actual measuring | | | | | |
| | | Code | Pressure type | | | | |
| | | G | gauge | | | | |
| | | A | absolute | | | | |
| | | | | Code | Accuracy | | |
| | | | | C | 0,25% | | |
| | | | | D | 0,5% | | |
| | | | | | | Code | Output signal |
| | | | | | | O1 | 4 ~20mA |
| | | | | | | O2 | 0 ~ 5V |
| | | | | | | O3 | 1 ~ 5V |
| | | | | | | Oz | customer request |
| | | | | | | Code | Others |
| | | P1 | G1/4 | | | | |
| | | P2 | G1/2 | | | | |
| | | P3 | 1/4NPT | | | | |
| | | P4 | M20x1,5 | | | | |
| | | Pz | customer request | | | | |

| | | | | | |
|-------|------------|---------------|----------|---------------|--------|
| THPB8 | (-1~10)bar | G | D | O1 | P2 |
| | Range | Pressure type | Accuracy | Output signal | Others |