# EXPLOSIVE-PROOF TEMPERATURE TRANSMITTER
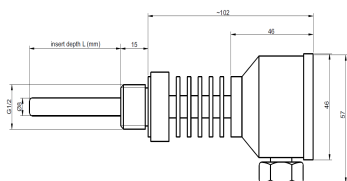## serie THTB4



## Specification:

THTB4 temperature transmitter is composed by temperature sensor, compensated electric circuit and switching circuit. It is featured stable performance, high sensitivity, good reliability.THTB4 uses entire welding structure and high strength outer housing, it is widely used for temperature measurement and control in many automatic temperature measurement & control systems such as petroleum machinery, chemical machinery, pump and compressor, electric power, boiler, natural gas etc.

## Description:

- Anti-vibration, good stability and high accuracy
- High strength stainless steel housing, anti-impact, withstand high pressure
- Many kinds of connection modes, many kinds of output signal
- Explosion-proof: Exd II Ct4 (flame-proof)
- Many kinds of structures, can be made as customer's request

| TECHNICAL PARAMETERS | | | |
|---|---|---|---|
| Measuring media | gas or liquids compitable stainless steel | Allowed deviation △°C | class A } (0.15+0.002|t|) |
| Measuring range | -50~+300°C | Long term stability | 0.15%FS/year |
| Output signal | 4~20mA ,1~5V | Time response time | <30S |
| Accuracy | 0.5%FS(standard), 1%FS | Circuit temperature shift | <±0.75%FS/50°C |
| Ambient temperature range | -40°C~+85°C | Let−through current | ≤5mA |
| Relative humdity | 5%~95% | Explosive-proof | ExiaIIBT4,ExdIIBT4 |



## Oder code:

| THTB4 | | | | | |
|---|---|---|---|---|---|
| | Range | Output signal | Process connection | Others | Insert depth |

| THTB4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Range** | Measurig range: -50°C ~+300°C | | | | | | |
| | (X1~ X2)°C | (X1,X2 is lower limit and higher limit of measuring temperature respectively) | | | | | | |
| | | **Code** | **Output signal** | | | | | |
| | | O1 | 4 ~20mA | | | | | |
| | | O2 | 0 ~ 5V | | | | | |
| | | Oz | customer request | | | | | |
| | | | **Code** | **Process connection** | | | | |
| | | | T0 | fixed thread | | | | |
| | | | T1 | fixed flange | | | | |
| | | | T2 | movable thread | | | | |
| | | | T3 | movable flange | | | | |
| | | | Tz | customer request | | | | |
| | | | | **Code** | **Other functions** | | | |
| | | | | To | PVC cable | | | |
| | | | | T1 | DIN 43650 | | | |
| | | | | T2 | aviation connector | | | |
| | | | | E0 | no explosive-proof | | | |
| | | | | E1 | flame proof EX II CT6 | | | |
| | | | | E2 | ATEX  EX II CT6 | | | |
| | | | | T | customer request | | | |
| | | | | | **Code** | **Insert depth L (mm)** | | |

| THTB4 | 0~200°C | O1 | T0(G1/2) | P2 | 80 |
|---|---|---|---|---|---|
| | Range | Output signal | Process connection | Others | Insert depth |