

Product Information

**Analog Head Transmitter
 T03 BU / WE**



- Continuous measurement due to analog signal path
- Measuring range programmable
- 2- or 3- wire sensor connection

Characteristics

The T03 BU / WE is an analog Pt100 transmitter. It is designed for industrial applications and are used to measure the temperature through Pt100 resistance thermometers in 2-/3-wire circuits connections. The 0...10 V output signal is linear with temperature.

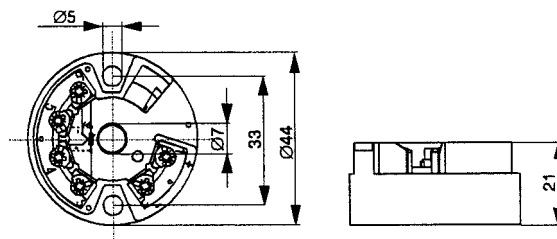
The transmitter is factory preset, but can also be configured by the customer via programming tool. This makes customers' warehousing easier and has the advantages of a freely programmable measuring range.

This transmitter combines the advantages of a continuous analog signal path and those of digital adjustment.

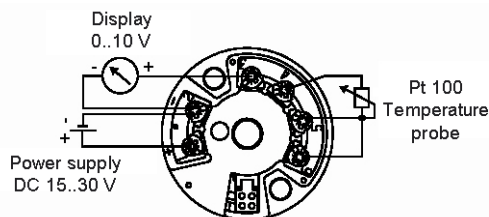
Technical data

| | |
|--------------------------------------|--|
| Measuring input | : Pt100 |
| Measuring range | : -200..+850 °C, programmable |
| Measuring span | : 40 to 1050 K |
| Lower range limit | : if span <75 K: -40, -20, 0, 20, 40 °C : if span =75 K: ±50 °C : if span >75 K: ±(span*0.2+35 °C) |
| Sensor connection | : 2- or 3-wire connection |
| Measuring rate | : continuous measurement due to analog signal path |
| Output signal | : 0..10 V, 3-wire-technology |
| Transfer accuracy | : ±0.2 % Full Scale |
| Calibration accuracy | : ≤ ±0.2 °C or ±0.2 % of meas. span |
| Power supply U _B | : 15..30 V DC |
| Permissible load R _L | : ≥ 10 kOhm |
| Setting time on a temperature change | : ≤ 10 ms |
| Working temperature | : -40..+85 °C |
| Electrical connection | : via screw terminals max. cable cross-section 1.75 m ² |
| Housing | : PC-housing, suitable for installation in connection head (DIN 43729 form B) |
| Operating position | : unrestricted |
| Protection class | : housing: IP54 terminals: IP00 |

Dimensions



Connection diagram



Ordering code

T03BU/WE - 1. - 2.

| | |
|-----------------------------|--|
| 1. Sensor connection | |
| P2 | resistance thermometer Pt100, 2-wire |
| P3 | resistance thermometer Pt100, 3-wire |
| 2. Measuring range | |
| MBx | state desired measuring range e.g.: MB -50..+400 °C (max. possible measuring range: -200..+850 °C) |

Accessories

Rail adapter

(for snapping the T03BU onto a top-hat rail)



Programming tool for T03BU

The programming tool contains a multilingual configuration software and PC-Interface USB / SP-translator