

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.

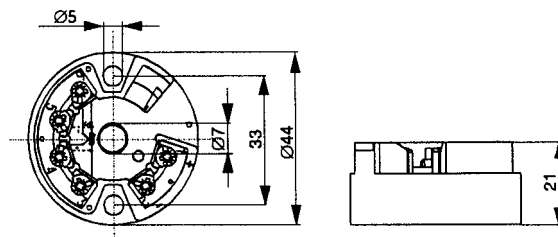
The transmitter is factory preset, but can also be configured by the customer via programming tool. This makes customers' warehousing easier and has the advantages of a freely programmable measuring range.

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

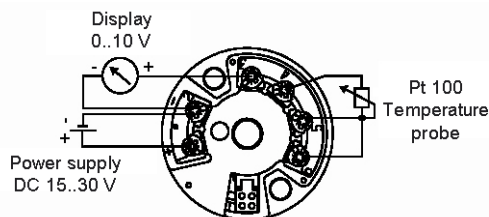
## Technical data

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 <sub>B</sub>	: 15..30 V DC
Permissible load R <sub>L</sub>	: ≥ 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 <sup>2</sup>
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.

<b>1. Sensor connection</b>	
P2	resistance thermometer Pt100, 2-wire
P3	resistance thermometer Pt100, 3-wire
<b>2. Measuring range</b>	
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