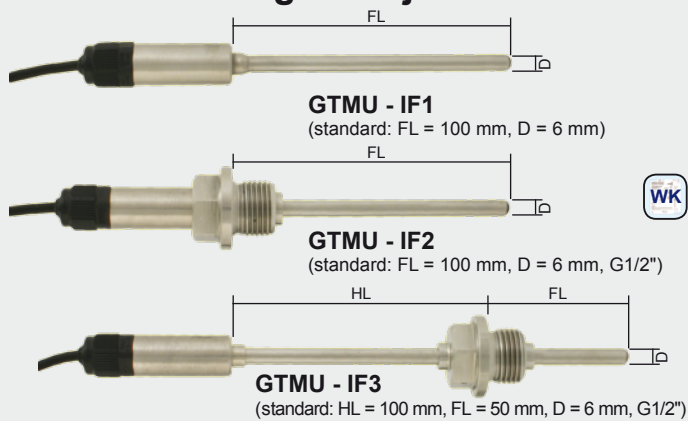


Temperature transmitter with digital adjustment



GTMU - IF1

GTMU - IF2

GTMU - IF3

Specification:

Meas. range: The probe length FL has to be chosen long enough, that the allowable temperature range of the electronics situated in the tube sleeve is not exceeded.

GTMU - IF1 (standard): -30,0 ... +100,0 °C

GTMU - IF2 (standard): -30,0 ... +100,0 °C

GTMU - IF3 (standard): -70,0 ... +400,0 °C

other measuring ranges (max. -200 ... +500 °C) **upon request**

Meas probe: internal Pt1000-sensor

Accuracy: (at nominal temperature = 25 °C)

Electronic: ±0,2 % of meas. value ±0,2 °C

Meßfühler: standard: DIN class B
optionally higher sensor accuracy available

Output signal: 4 ... 20 mA (2-wire)

Auxiliary energy: $U_v = 10 \dots 30$ V DC

Permissible burden: $R_A \leq (U_v - 10 \text{ V}) / 0,022 \text{ A}$ [R_A in Ohm, U_v in V]

Scaling: the transducer can be scaled freely within the measuring ranges via GTMU-IF programming tool.

Operating temperature of electronic (in tube sleeve): -25 to 60 °C

Housing: stainless steel housing

Dimensions: depending on sensor construction

tube sleeve: Ø15 x 35 mm (without screwing)

tube length FL: 100 or 50 mm *or on customer requirement*

tube diameter D: Ø 6 mm *or on customer requirement*
(available Ø: 4, 5, 6 and 8 mm)

collar tube length HL: 100 mm *or on customer requirement*

thread: G1/2" *or on customer requirement*
(available threads M8x1, M10x1, M14x1.5, G1/8", G1/4", G3/8", G1/2", G3/4")

Electric connection: approx. 1 m long 4-pin cable
(2 x current loop, 2 x interface)

Options (upcharges):

- FL=...: longer tube, *each started further 100 mm*
- HL=...: longer collar tube, *each started further 100 mm*
- D=...: other tube diameter
- G=...: other thread upon request
- MB=...: other measuring ranges, set by factory
- M12: electric connection: M12 plug



Accessories:

GTMU-IF - Programming tool

USB-interface adaptor for GTMU-IF, incl. configuration software

Analog Pt100-transmitter with digital adjustment



T03 BU / WE *1 (transmitter 0-10V, set by our works)

*1 = please specify design-type desired on your order.
e.g. T03BU, Pt100 3-wire, 0...10 V = 0 - 250 °C

General: These transmitter are 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 advantages of a continuous analog signal path and those of digital adjustment have been combined in the realization of this transmitter series.

Specification:

Measurement input: Pt100 (DIN EN60751)

Range limits: -200 ... +850 °C

Meas. span: 40 to 1050 K

Zero shift: at span < 75K: -40, -20, 0, 20 or 40 °C
at span = 75K: ± 50 °C
at span > 75K: ± (span * 0.2 + 35 °C)

Sensor connection: 2- or 3-wire connection

Meas. current: < 0,5 mA

Max. perm. line resistance (3-wire): 11 Ohm per conductor

Sampling time: continuous because of analog signal path

Output signal: 0...10 Volt, 3-wire technology

Setting time on a temperature change: ≤ 10 ms

Transfer characteristic: linear with temperature

Transfer accuracy: ≤ ±0.2 % FS

Calibration accuracy: ≤ ±0.2 °C or ±0.2 % FS

Supply voltage: $U_b = 15 \dots 30$ V DC

Supply voltage error: ±0.01 % FS / V

Permissible load R_L : $R_L \geq 10$ kOhm

Load error: ≤ ±0.1% FS

Operating temp.: -40 ... +85 °C

Relative humidity: 0... 95 %RH (non condensing)

Storage temperature: -40 ... +100 °C

Electromagnetic compatibility (EMC):
conforming to **CE** acc. to DIN EN 61326

Electric connection: via terminals,
cross section of connection terminals max. 1,75 mm²

Housing: PC-housing, suitable for installation in connection head acc. to DIN 43729 form B.

Operating position: unrestricted

Dimensions: Ø 44 mm x 21 mm

IP-rating: housing: IP54, connection terminals: IP00

Weight: approx. 45 g

Accessories:

Rail adapter

(rail adapter for snap-on to top-hat rail)

Programming tool for T03BU

The programming tool consists of: configurations software, connection cable RS 232-C (approx. 1m long, 9-pin Dsub-plug)