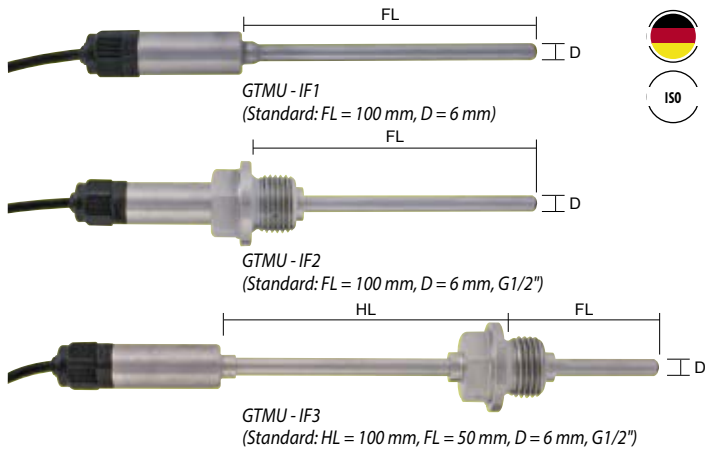


TEMPERATURE TRANSMITTER PT 1000



GTMU-IF1

Art. no. 602688
Temperature transmitter

GTMU-IF2

Art. no. 604409
Temperature transmitter

GTMU-IF3

Art. no. 603774
Temperature transmitter

General:

High precision transmitter with compact design.

Specifications:

Measuring ranges: 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

Measuring probe: internal Pt1000-sensor, DIN class B

Accuracy: (at nominal temperature = 25 °C)

- Electronic:** ±0.2 % of measuring value ±0.2 °C
- Measuring probe:** standard: DIN class B
optionally higher sensor accuracy available

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

Auxiliary energy: U_v = 10 ... 30 V DC

Permissible burden: R_s ≤ (U_v - 10 V) / 0.022 A [R_s in Ohm, U_v in V]

Working temperature of electronic (in tube sleeve): -25 ... +60 °C

Housing: stainless steel housing

Dimensions: depending on sensor construction

tube sleeve: Ø 15 x 35 mm (without screwing)

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

Option:

FL=...: longer tube

HL=...: longer collar tube

D=...: other tube diameter

G=...: other thread

MB=...: other measuring ranges, set by factory

M12: electric connection: M12 plug

ANALOG PT100-TRANSMITTER



T03BU/WE

Analog Pt100-transmitter (transmitter 0 ... 10 V, set by our works)

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.

Specifications:

- Measurement input:** Pt100 (DIN EN60751)
- Measuring ranges:** -200 ... +850 °C
- Measuring span:** 40 ... 1050 K
- Zero shift:** at span <75 K: -40, -20, 0, 20 or 40 °C
at span =75 K: ±50 °C
at span >75 K: ±(span * 0.2 + 35 °C)
- Sensor connection:** 2- or 3-wire connection
- Measuring 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 % of measuring span
- Supply voltage: U_s** 15 ... 30 V DC
- Supply voltage error:** ±0.01 % FS / V
- Permissible load R_L:** R_L ≥ 10 kOhm
- Load error:** ≤ ±0.1 % FS
- Operating temperature:** -40 ... +85 °C
- Relative humidity:** 0 ... 95 % RH (non condensing)
- Storage temperature:** -40 ... +100 °C
- 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
- Protection rating:** Housing: IP54, connection terminals: IP00
- Weight:** approx. 45 g

Accessories and spare parts:

Hutschienenadapter
Art. no. 603659
for snap-on the T03 BU to top-hat rail

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Greisinger		
1.	Sensor connection	
	P2	Pt100 (2-wire)
	P3	Pt100 (3-wire)
2.	Measuring range	
	...	-200 ... +850 °C
	MB	Any measuring range desired