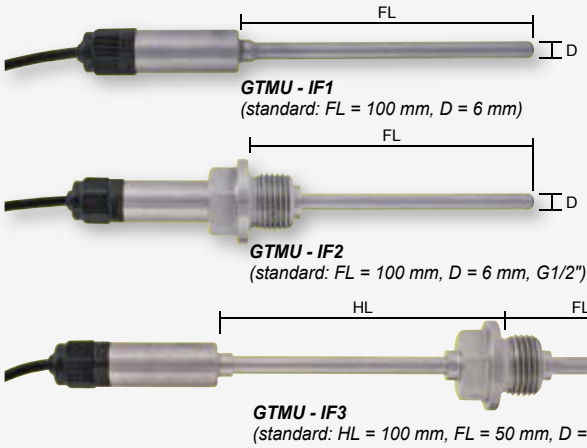
Temperature transmitter with digital adjustment



GTMU - IF1
(standard: FL = 100 mm, D = 6 mm)

GTMU - IF2
(standard: FL = 100 mm, D = 6 mm, G1/2")

GTMU - IF3
(standard: HL = 100 mm, FL = 50 mm, D = 6 mm, G1/2")

GTMU - IF1
Temperature transmitter with digital adjustment

GTMU - IF2
Temperature transmitter with digital adjustment

GTMU - IF3
Temperature transmitter with digital adjustment

Specification:	
Measuring 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
Measuring probe:	internal Pt1000-sensor
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:	Uv = 10 … 30 V DC
Permissible burden:	$R_A \leq (U_V - 10\ V) / 0{,}022\ A$ [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 ... 60 °C
Housing:	stainless steel housing
Dimensions:	depending on sensor construction
tube sleeve:	Ø 15 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)

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

Accessories and spare parts:

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

Analog Pt100-transmitter with digital adjustment

T03 BU /WE *1
(transmitter 0-10 V, 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, with digital adjustment
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_B	15 … 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 temperature:	-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 and spare parts:

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

Programming tool for T03BU
The programming tool consists of: configurations software, connection cable USB