

TEMPERATURE-MEASURING TRANSMITTER IN SNAP-ON HOUSING



**GTP-SG**

Temperature-measuring transmitter in snap-on housing

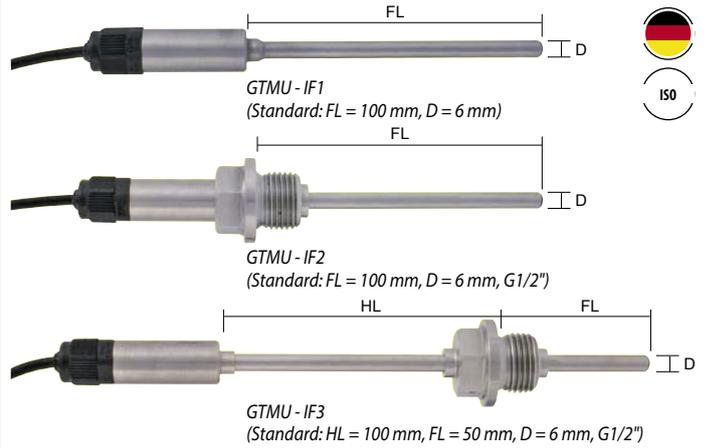
**General:**  
Design-type: PC board completely ready for operation (sensor not included) with any measuring range and any output. 3-pin connection terminal for Pt 100 in 2 or 3-wire technology. Connection terminal for output in 2-, 3-, or 4-wire technology - depending on type desired.

Specifications:	
<b>Sensor element:</b>	for Pt 100 resistance thermometer acc. to DIN IEC 751. Suitable sensors can be supplied custom-designed according to your specifications or in standard design from stock (p.r.t. chapter temperature probes).
<b>Sensor connection:</b>	2- or 3-wire connection. Automatic line resistance compensation for 3-wire connection.
<b>Auxiliary energy:</b>	U <sub>v</sub> = 12 ... 30 V DC (at 0 ... 10 V: U <sub>v</sub> = 18 ... 30 V DC)
<b>Reverse voltage protection:</b>	50 V permanent
<b>Permissible impedance (at 4 ... 20 mA):</b>	$R_A [\Omega] \leq (U_v [V] - 12 V) / 0.02 A$
<b>Operating temperature electronics:</b>	0 ... +70 °C
<b>Accuracy electronics:</b>	±0.2 % FS
<b>Temperature coefficient:</b>	0.01 % / °C
<b>Storage temperature:</b>	-20 ... +70 °C
<b>Relative humidity:</b>	0 ... 80 % RH, non-condensing (standard)
<b>Design type:</b>	for top-hat rail (panel mounting), Width of housing (pitch) 22.5 mm
<b>Mounting:</b>	4 holes, 3.5 mm Ø each
<b>Mounting distance:</b>	43.5 x 58 mm (W x H)
<b>Miscellaneous:</b>	Potentiometer for zero point and scale
<b>Electric connection:</b>	screw-type terminals with wire protection and drill holes for testing pin, wire Ø max. 1.5 mm <sup>2</sup> . Option: screw-type/plug-in terminal

GTP - [1] - [2] - [3] - [4] - [5]

Greisinger	
1.	Version
	SG Temperature measuring transducer in snap-on housing
2.	Sensor element
	P Pt100
	T PT1000
3.	Sensor connection
	3L 3-wire (can be wired for 2-wire operation)
	2L 2-wire, Special design
	4L 4-wire, Special design
4.	Measuring range
	0100 0 ... 100 °C
	0200 0 ... 200 °C
	5050 -50 ... +50 °C
	5015 -50 ... +150 °C
5.	Output signal
	AA1 4 ... 20 mA
	AV02 0 ... 2 V
	AV05 0 ... 5 V
	AV010 0 ... 10 V

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:	
<b>Measuring range:</b>	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.
<b>GTMU-IF1 (Standard):</b>	-30.0 ... +100.0 °C
<b>GTMU-IF2 (Standard):</b>	-30.0 ... +100.0 °C
<b>GTMU-IF3 (Standard):</b>	-70.0 ... +400.0 °C
	other measuring ranges (max. -200 ... +500 °C) upon request
<b>Measuring probe:</b>	internal Pt1000-sensor, DIN class B
<b>Accuracy: (at nominal temperature = 25 °C)</b>	
<b>Electronic:</b>	±0.2 % of measuring value ±0.2 °C
<b>Measuring probe:</b>	standard: DIN class B optionally higher sensor accuracy available
<b>Output signal:</b>	4 ... 20 mA (2-wire)
<b>Auxiliary energy:</b>	U <sub>v</sub> = 10 ... 30 V DC
<b>Permissible burden:</b>	$R_A \leq (U_v - 10 V) / 0.022 A$ [ $R_A$ in Ohm, $U_v$ in V]
<b>Working temperature of electronic (in tube sleeve):</b>	-25 ... +60 °C
<b>Housing:</b>	stainless steel housing
<b>Dimensions:</b>	depending on sensor construction
<b>Tube sleeve:</b>	Ø 15 x 35 mm (without screwing)
<b>Electric connection:</b>	approx. 1 m long 4-pin cable (2 x current loop, 2 x interface)

Option:	
<b>FL=...:</b>	longer tube
<b>HL=...:</b>	longer collar tube
<b>D=...:</b>	other tube diameter
<b>G=...:</b>	other thread
<b>MB=...:</b>	other measuring ranges, set by factory
<b>M12:</b>	electric connection: M12 plug