TEMPERATURE-MEASURING TRANSMITTER IN SNAP-ON HOUSING

GTP-SG
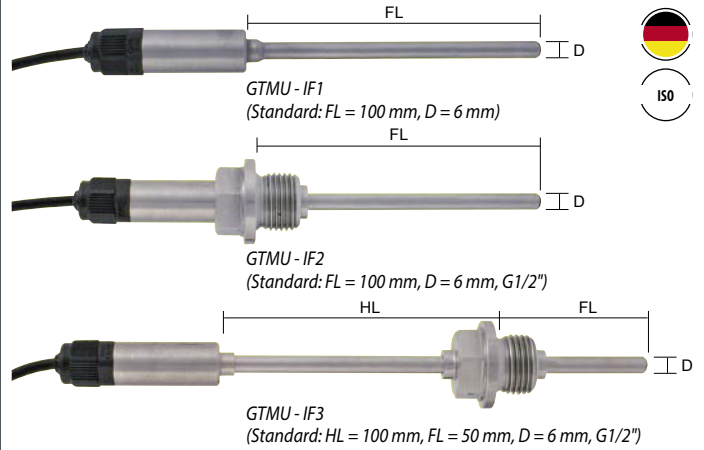Temperature-measuring transmitter in snap-on housing

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:

Sensor element:	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).*
Sensor connection:	2- or 3-wire connection. Automatic line resistance compensation for 3-wire connection.
Auxiliary energy:	Uv = 12 ... 30 V DC (at 0 ... 10 V: Uv = 18 ... 30 V DC)
Reverse voltage protection:	50 V permanent
Permissible impedance (at 4 ... 20 mA):	$R_A \,[\Omega] \leq$ (Uv [V] - 12 V) / 0.02 A
Operating temperature electronics:	0 ... +70 °C
Accuracy electronics:	±0.2 % FS
Temperature coefficient:	0.01 % / °C
Storage temperature:	-20 ... +70 °C
Relative humidity:	0 ... 80 % RH, non-condensing (standard)
Design type:	for top-hat rail (panel mounting), Width of housing (pitch) 22.5 mm
Mounting:	4 holes, 3.5 mm Ø each
Mounting distance:	43.5 x 58 mm (W x H)
Miscellaneous:	Potentiometer for zero point and scale
Electric connection:	screw-type terminals with wire protection and drill holes for testing pin, wire Ø max. 1.5 mm². 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
(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
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 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, 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:	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]
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

for further information p.r.t. www.gsg-industrietechnik.com

DISPLAY / CONTROLLER

LOGGER / BUS SYSTEMS

TRANSMITTER

TEMPERATURE PROBE