

ИНФРАКРАСНЫЕ ИЗМЕРИТЕЛИ GTMU, GTMU-MP, GTMU-IF

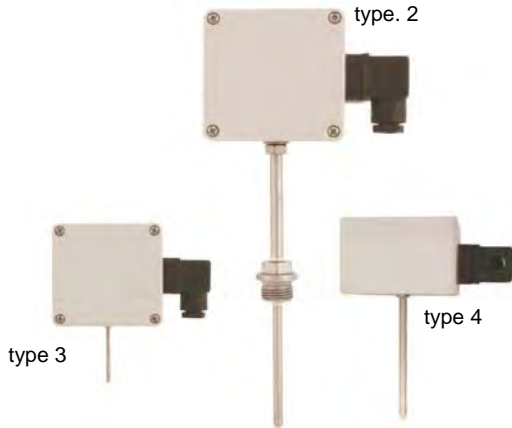
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Temperature Probe with Transmitter GTMU



- Optimal adaptability due to 4 different design types
- PT100 or NiCr-Ni probe incl. transmitter
- Ready for assembly

Characteristics

The GTMU is a temperature probe with integrated transmitter. There are 4 basic design types and 2 sensor types. This ensures optimal adaptability to different conditions like higher temperatures, outdoor usage or wall mounting.

The measurement is done by means of a resistive temperature sensor (Pt100, 2- or 3- wire) or thermocouple (NiCr-Ni). The transmitter outputs linear current or voltage signals.

The transmitter is completely customized according to customer requirements.

Technical data

Sensor element : Pt100
NiCr-Ni

Standard measuring range

Pt100 : 0..100 °C, 0..200 °C, -50..+50 °C,
-50..+150 °C

NiCr-Ni : 0..100 °C, -50..+150 °C,
-200..+300 °C, 0..600 °C,
0..1150 °C
other measuring ranges upon request

Max. possible measuring range

Pt100 : -200..+800 °C

NiCr-Ni : -200..1150 °C

Accuracy

Pt100 : DIN class B

NiCr-Ni : class 1

Output signal : standard 4..20 mA (2-wire)
optional 0..1 V, 0..2 V, 0..5 V,
0..10V (3- or 4-wire)

Power supply U_v : 12..30 V DC (at 0..10 V: 18..30 V DC)

Permissible burden R_A : (at 4..20 mA) $R_A = (U_v - 12 V) / 0,02 A$

Permissible load R_L : (at ... V) $R_L > 3000 \Omega$

Working temperature : 0..70 °C

(-40..+85 °C at option RT420 / GITT)

Housing material : ABS

Probe material : stainless steel

Protection class : IP65

Sensor installation : sensors are isolated

Mounting : with fastening holes for wall mounting

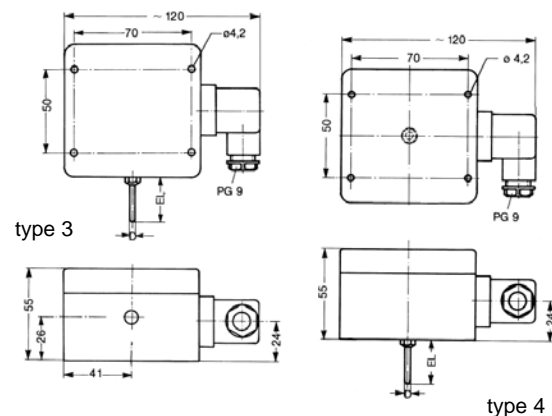
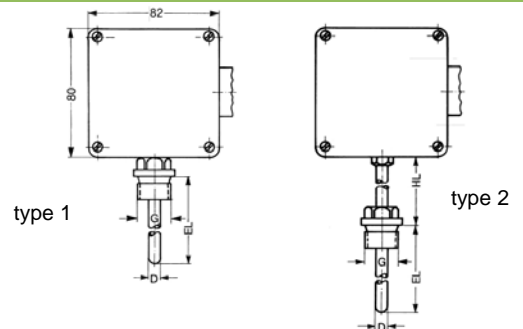
Electrical connection : elbow-type plug (EN 175301-803/A)

	type 1	type 2	type 3	type 4
Process connection (standard)	G $\frac{1}{2}$		—	—
Fitting length (standard)	EL = 100 mm	EL = 100 mm	EL = 50 mm	EL = 100 mm
Neck tube length (standard)	—	HL = 50 mm	—	—
Diameter (standard)	D = 6 mm	D = 6 mm	D = 3 mm	D = 6 mm

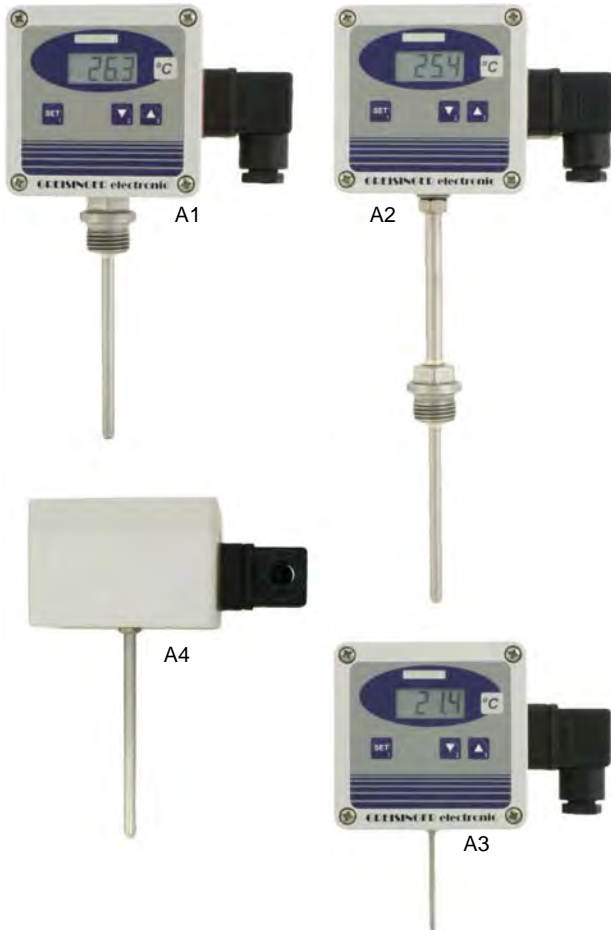
Design types

Type 1	with process connection G $\frac{1}{2}$ for screw-in
Type 2	for higher temperatures, process connection G $\frac{1}{2}$ in distance to housing, HL = length of neck tube
Type 3	indoor / outdoor probe for wall mounting <i>(potting of electronics necessary for outdoor application)</i>
Type 4	duct probe with centrally mounted sensor tube pointing downwards

Dimensions



Temperature Probe with Transmitter GTMU-MP



- Optimal adaptability due to 4 different design types
- Freely scalable measuring range
- With display by default

Characteristics

The GTMU-MP is a temperature probe with integrated transmitter. There are 4 basic design types. This ensures optimal adaptability to different conditions like higher temperatures, outdoor usage or wall mounting.

The measurement is done by means of a resistive temperature sensor (Pt1000, 2-wire). The measuring range is freely scalable via buttons. The transmitter outputs linearized current or voltage signals.

The GMTU-MP has a display by default and is completely customized according to customer requirements.

Technical data

Sensor element	: Pt1000 (2-wire)
Measuring range	: -50.0..+400.0 °C, freely scalable
Accuracy	:
Temperature display	: ±0.4 % of m.v. ±0.2 °C
Output signal	: ±0.2 % FS

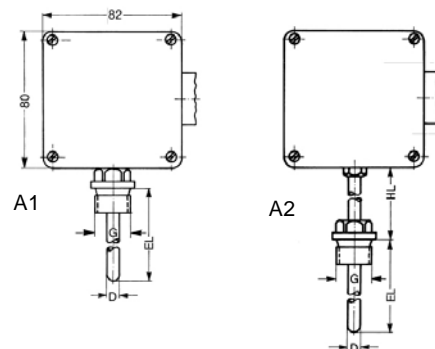
Output signal	: standard 4..20 mA (2-wire) optional 0..1 V, 0..10V (3- / 4- wire)
Power supply U_V	: 12..30 V DC (standard), 18..30 V DC at output signal .. V
Permissible burden R_A	: (at 4..20 mA) $R_A = (U_V - 12 V) / 0.02 A$
Permissible load R_L	: (at ... V) $R_L > 3000 \Omega$
Working temperature	: -25..+70 °C (electronics)
Housing material	: ABS
Probe material	: stainless steel
Protection class	: IP65
Mounting	: with fastening holes for wall mounting or with tube support made of plastic for duct mounting
Electrical connection	: elbow-type plug (EN 175301-803/A)
Display	
Display	: LCD-display
Height	: 10 mm
Display range	: 4 digit
Functions	: Min-/max- value memory Zero point / slope digitally adjustable output signal freely scalable

	A1	A2	A3	A4
Process connection (standard)	G ½		—	—
Fitting length (standard)	EL = 100 mm	EL = 100 mm	EL = 50 mm	EL = 100 mm
Neck tube length (standard)	—	HL = 100 mm	—	—
Diameter (standard)	D = 6 mm	D = 6 mm	D = 3 mm	D = 6 mm

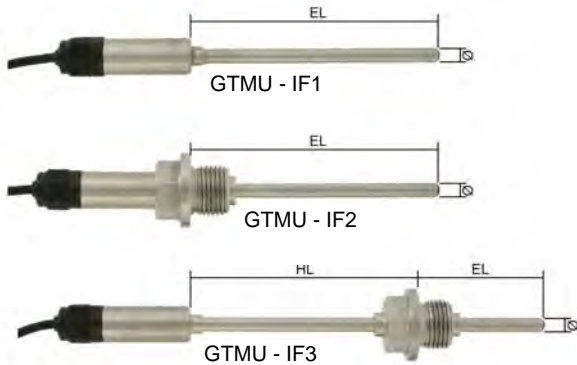
Design types

A1	with process connection G ½ for screw-in
A2	for higher temperatures, process connection G ½ in distance to housing, HL = length of neck tube
A3	indoor / outdoor probe for wall mounting (<i>potting of electronics necessary for outdoor application</i>)
A4	duct probe with centrally mounted sensor tube pointing downwards

Dimensions



Temperature Transmitter GTMU - IF



- Internal Pt1000
- Housing made of stainless steel
- Long-term temperature monitoring

Characteristics

The GTMU-IF is designed for long-term monitoring of temperatures. It is particularly suitable for narrow and difficult to access measuring points due to its compact design.

The temperature transmitter GTMU-IF has an internal Pt1000 sensor that measures the temperature. The measured values are output via linearized 4...20 mA signal.

The housing of the sensor module is made of stainless steel and is therefore optimally protected against corrosion. The modules can be modified according to customer requirements.

Technical data

	GTMU - IF1	GTMU - IF2	GTMU - IF3
Measuring range	-30.0..+100.0 °C	-30.0..+100.0 °C	-70.0..+400.0 °C
Sensor element	Pt1000 sensor		
Accuracy	electronics: ±0.2 % of m.v. ±0.2 °C sensor element: DIN class B		
Working temperature	-25..+70 °C (electronics in cable sleeve)		
Process connection (standard)	—	thread G ½	thread G ½
Fitting length (standard)	EL = 100 mm	EL = 100 mm	EL = 50 mm
Neck tube length (standard)	—	—	HL = 100 mm
Probe diameter (standard)	Ø 6 mm	Ø 6 mm	Ø 6 mm
Housing	stainless steel V4A (potted)		

Dimensions

Cable sleeve : Ø 15 x 35 mm (without threaded connection)

Ordering code

GTMU - - - - - -

1. Design type	
IF1	without thread
IF2	with tread G ½
IF3	with tread G ½ and neck tube
2. Measuring range	
MB1	-30.0..+100.0 °C (standard IF1 and IF2)
MB2	-70.0..+400.0 °C (standard IF3)
MBx	other ranges upon request, indicate measuring range separately (max. possible meas. range: -200..+500 °C)
3. Fitting length EL	
0050	50 mm (standard IF3)
0100	100 mm (standard IF1 and IF2)
xxxx	any EL in mm (e.g.: 0700 = 700 mm)
4. Probe diameter D	
D4	Ø 4 mm
D5	Ø 5 mm
D6	Ø 6 mm (Standard)
D8	Ø 8 mm
5. Process connection (only at design IF2 and IF3)	
G1	G ½ (standard)
G2	G ¼
G3	G ¾
G4	G ⅙
G5	G ⅜
M8	M8x1
M0	M10x1
M4	M14x1,5
6. Length of neck tube HL (only at design IF3)	
100	100 mm (standard)
xxx	any HL in mm (e.g.: 200 = 200 mm)

Accessories

Programming tool for GTMU-IF

The programming tool contains

- a multilingual configuration software
- USB interface adapter for GTMU-IF

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