

Product information

Temperature probe

Temperature probe GTL 260 / 260M GTL 280 / 280M



GTL 260

GTL 260M

GTL 280

GTL 280M



- G 1/2" standard process connection
- Sensor completely made of stainless steel

Characteristic

The temperature probes are designed for temperature monitoring in pipes and tanks, temperature measurements in steam and pressure pipes and for monitoring of CIP- / SIP- processes.

Suitable weld-in sleeves ensures disassembling of the temperature probe without process opening or interruption.

The probes can be provided with different electric connections and with or without integrated head transmitter.

Specifications

Temperature ranges	: ambience: -40..+80 °C probe tip: -40..+200 °C CIP- / SIP-temperature: 140 °C < 30 min.
Measuring resistor	: Pt100
Accuracy	: class A, class AA
Electric connection	: G 1/2" standard suitable weld-in sleeves APHZ30-G12S, APHK35-G12S (see accessories)



Fitting length	: 50, 100, 150, 250 mm
Probe head	: Ø 18 mm

Protection tube and probe tip:

Ø 6 mm	protection tube Ø 6 mm without taper
Ø 3 mm	protection tube Ø 6 mm and tapered probe tip Ø 3 mm

Response time	: FS Ø 3 mm: T ₉₀ ≤ 1.5 s FS Ø 6 mm: T ₉₀ ≤ 7.4 s
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Working pressure	: max. 10 bar
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Material

Probe head	: 1.4305
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Protection tube and tip	: 1.4404
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Protection class	: IP67 / IP69K
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CE conformity	: EN 61326-1:2013 / -2-3:2013
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Design types

	GTL 260 / 260M	GTL 280 / 280M
Electric connection	cable connection M12-plug, 4-pin (1.4305)	fixed cable 2.5 m, PVC LIYY 281: 4 x 0.25 mm ² 281M: 2 x 0.25 mm ²

Transducer GTML2 (only for GTL 260M / GTL 280M)

Integrated head transmitter

Measuring range	: -10..+40 °C * / 0..50 °C * / 0..100 °C * 0..150 °C * / 0..200 °C * or freely in range -20..200 °C *
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Power supply	: 10..30 V DC
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Measuring output	: analog, 4..20 mA, 2-wire
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Output signal in case of error	: < 3.75 mA or > 21.5 mA, selectable *
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Filter	: integrated low-pass, 4-step *
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Reaction time	: < 150 ms (filter 0), < 300 ms (filter 1) < 800 ms (filter 2), < 3 s (filter 3)
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Working temperature	: -40..+70 °C
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Measurement accuracy	: < 0.2 % FS
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Temperature drift	: < 0.01 % FS / K
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* Programmable via GTL - Configuration tool (accessories)

Note: The default settings are marked in **bold**.

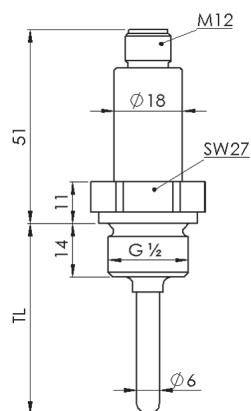
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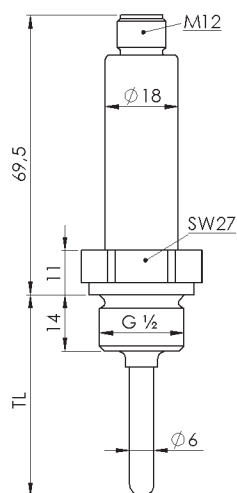
Temperature probe

Dimensions

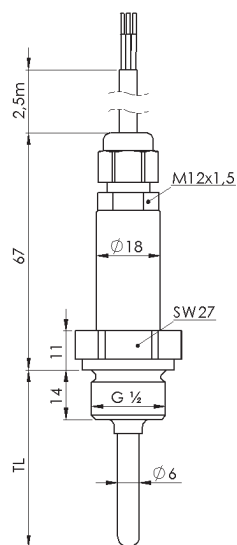
GTL 260



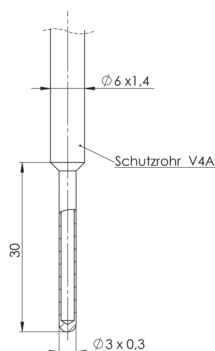
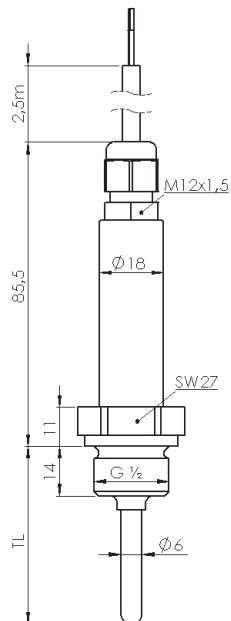
GTL 260M



GTL 280



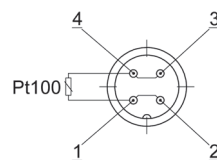
GTL 280M



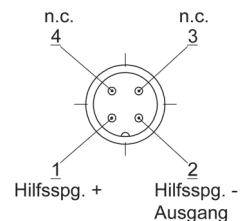
Connection

Design type GTL 260 or GTL 260M:

without transducer (4-wire):

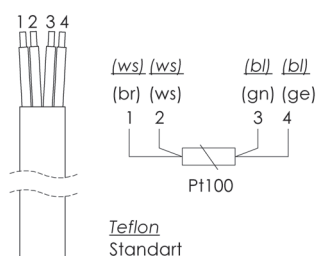


with transducer (2-wire):

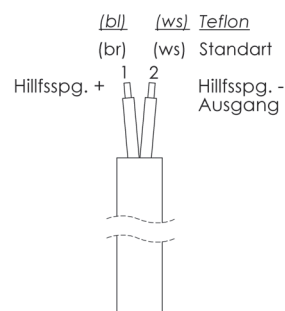


Design type GTL 280 or GTL 280M:

without transducer (4-wire):



with transducer (2-wire):



Option

TK	Design type GTL 280 and GTL 280M with Teflon cable GTL 280: 4 x 0.14 mm ² GTL 280M: 2 x 0.14 mm ² Teflon cable up to 200 °C
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Product information

Temperature probe

Product key

Information on suitable weld-in sleeves can be found in product information GHMadapt/Accessories.

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1. Design type	
260	cable connection M12-plug, without integrated transducer
260M	cable connection M12-plug with integrated transducer
280	fixed cable (PVC) connection 2.5m, without integrated transducer
280M	fixed cable (PVC) connection 2.5m, with integrated transducer
2. Immersion length TL	
0050	50 mm
0100	100 mm
0150	150 mm
0250	250 mm
xxxx	any EL in mm (e.g. 320 = 320 mm) Ø 6: max. 1000 mm
3. Diameter protection tube and probe tip	
6	Ø 6 mm, without taper
3	Ø 6 mm, with tapered probe tip Ø 3 mm
4. Accuracy class	
A	class A
D	class AA (1/3 class B)
5. Transducer GTML2 (programmable) ONLY for design types 260M and 280M	
00	without transducer (design types 260 / 280)
M1	measuring range -10..+40 °C
M2	measuring range 0..50 °C
M3	measuring range 0..100 °C
M4	measuring range 0..150 °C
M5	measuring range 0..200 °C
MB	transducer with special measuring range in °C (state special measuring range separately e.g.: 0..75 °C or -20..+30 °C Mind the minimum range of 50 °C.)
6. Option	
00	without option
H	with neck tube
TK	Teflon cable for connection via fixed cable (only available for GTL 280 / 280M)
7. Certificate DIN EN 10204 (indicate only when required, multiple responses possible)	
WZ2.2	factory certification 2.2
APZMAT	acceptance test certificate 3.1 for material (in contact with products)
APZ2P	acceptance test certificate 3.1 with 2 measuring points (0°C / 70°C)
APZ3P	acceptance test certificate 3.1 with 3 measuring points (0°C, 70°C + 1 test point freely selectable)
APZ4P	acceptance test certificate 3.1 with 4 measuring points (0°C, 70°C + 2 test points freely selectable)