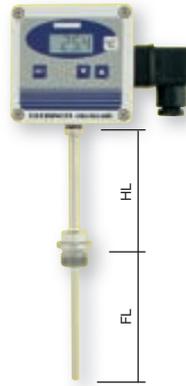


Freely scaleable temperature transducer



GTMU-MP-AP1
for direct screw connection
probe with threaded stem „G“

Standard type:
G = 1/2", FL = 100 mm, D = 6 mm

GTMU-MP-AP2
for high temperatures
threaded stem at a distance of
HL (collar tube) from housing

Standard type:
G = 1/2", HL = 100 mm,
FL = 100 mm, D = 6 mm

GTMU-MP-AP3
indoor / outdoor probe
for direct wall mounting

Standard type:
FL = 50 mm, D = 3 mm

GTMU-MP-AP4
duct probe
centrally mounted sensor tube
pointing downwards (for clamping
ring screw connection p.r.t. p. 141)

Standard type:
FL = 100 mm, D = 6 mm

GTMU-MP-SHUT
with heat-
protective shield

GTMU-MP-AP1

Freely scaleable temperature transducer

GTMU-MP-AP2

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GTMU-MP-AP3

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GTMU-MP-AP4

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GTMU-MP-SHUT

Freely scaleable temperature transducer

General:

The new generation of our transducers brings more flexibility thanks to state of the art digital microprocessor technology. Due to the many different design types and a measuring range of -50 ... 400 °C nearly all kinds of applications can be covered.

- on site temperature display
- output signal freely scalable
- user-adjustment possible
- possible output signals: 4-20 mA, 0-1 V or 0-10 V

Specification:

Measuring range: -50.0 ... +400.0 °C, free scaleable
The probe length FL has to be chosen long enough, that the allowable temperature of the case and the electronics of 70 °C is not exceeded!

Accuracy: (at 25 °C)

Display - temperature: ±0.4 % of measuring value ±0.2 °C

output signal: ±0.2 % FS (compared to display)

Probe: Pt1000, 2-wire, DIN class B (standard)
optional higher sensor accuracy available (p.r.t. page 13)

Output signal: standard: 4-20 mA (2-wire), freely scaleable
option: 0-1 V, 0-10 V (other output signals upon request)

Connection: 4-20 mA (2-wire)

for option AV01, AV10: 0 - 1 (10) Volt (3- or 4-wire)

Auxiliary energy: 12 ... 30 VDC or 18 ... 30 VDC (for output: 0- ... V)

Reverse voltage protection: 50 V, permanently

Permissible impedance (at 4-20 mA): $R_A [\Omega] \leq (U_v [V] - 12V) / 0.02 A$

Permissible load (at 0-1(10)V): $R_L [\Omega] > 3000 \Omega$

Display: approx. 10 mm high, 4-digit LCD-display

Working temperature: -25 ... 70 °C (electronic)

Storage temperature: -25 ... 70 °C

Relative humidity (electronic): 0 ... 95 % RH (non-condensing)
If there is a risk of condensation due to temperature changes, please use our encapsulated or lacquered types (option).

Housing: ABS (IP65)

Probe tube:	stainless steel
Probe length:	for standard length please refer to design type Optional: any other tube length possible <i>The probe length FL has to be chosen long enough, that the allowable temperature of the case and the electronics of 70 °C is not exceeded!</i>
Type SHUT:	Heat protective shield / weather protective shield Application: The weather protective shield is designed for highly precise outdoor measurements. Strong solar radiation or rain does not influence the measurement values. Design: Weather protective shield made of plastic, Ø 110 mm, heights approx. 140 mm. Additionally there is a wall mounting panel made of stainless steel with 3 mounting holes for screws with maximal shaft diameter 5 mm. Largest overhang 160 mm.
thread „G“:	G1/2" (standard) optional: G1/4", G3/8", G3/4", M10, M12, M14, M16
Probe diameter „D“:	3, 4, 5, 6 or 8 mm
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65)
Mounting:	4 housing holes for wall mounting or by means of plastic tube clamps for duct mounting
Functions:	min-/max-value memory, offset and slope digital adjustable, output signal freely scalable (without tools)

Option:

- **AV01:** output signal 0-1 V
- **AV10:** output signal 0-10 V
- **LACK:** encapsulated PC board (for outdoor application, i.e. applications where condensation is possible)
- **FL=...:** longer tube
- **HL=...:** longer collar tube
- **D=...:** other probe diameter
- **G=...:** other thread

Accessories and spare parts:

Clamping ring screw connection p.r.t. page 142

Ordering information:

If no additional data is added to the design type, the probe will be manufactured with standard dimensions. If different dimensions are needed, they have to be specified.

Ordering examples:

GTMU-MP-AP1
GTMU-MP-AP3, FL = 100 mm, D = 4 mm