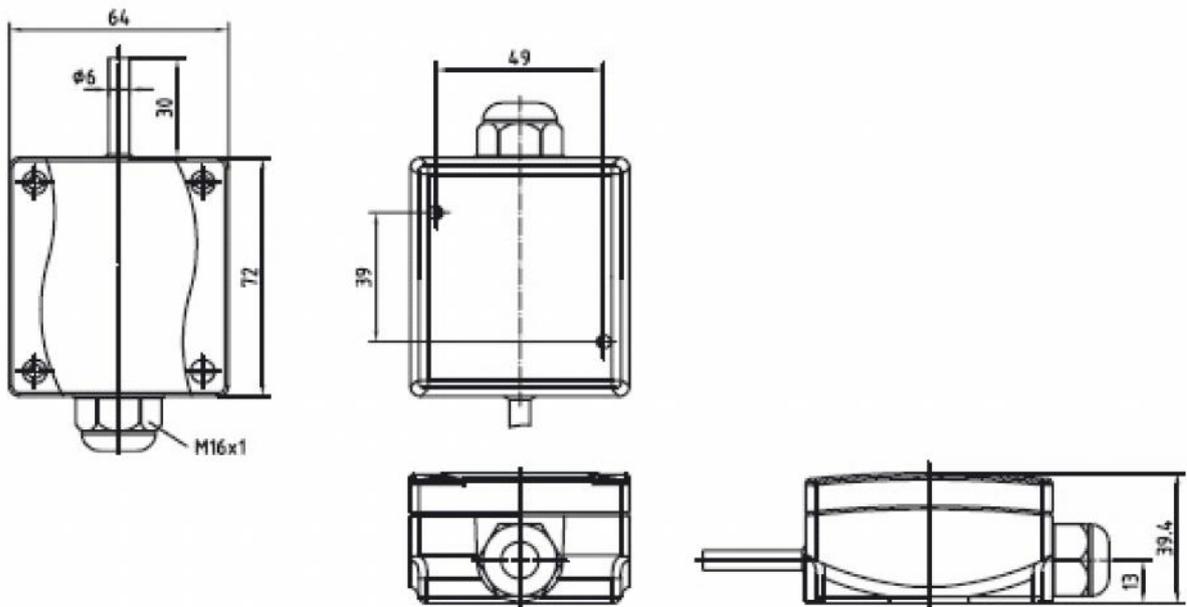


#### Features

- Active transmitters 0-10 Vdc or 4-20 mA output Pt100
- 8 different temperature ranges in same unit, selectable via jumpers on pcb:  
-20°C to +150°C, -50°C to +50°C, -20°C to +80°C, -30°C to +60°C, 0 to +40°C, 0 to +50°C, 0 to +100°C and 0 to +150°C  
other temperature ranges on request
- With or without display
- IP65 housing
- External element (inside probe)

#### Dimensions (mm)



8 different temperature ranges in same unit, selectable via jumpers on pcb

Measuring ranges [adjustable]	JP 1	JP 2	JP 3	JP 4
-20°C ... +150°C	●●	●●	●●	●●
-50°C ... +50°C	○○	●●	●●	●●
-20°C ... +80°C	●●	○○	●●	●●
-30°C ... +60°C	○○	○○	●●	●●
0°C ... +40°C	●●	●●	○○	●●
0°C ... +50°C	○○	●●	○○	●●
0°C ... +100°C	●●	○○	○○	●●
0°C ... +150°C	○○	○○	○○	●●

#### Ordering

Type no.	Output	Display
TOTP	Pt100	No
TOTP 010	0-10 Vdc	No
TOTP 420	4-20 mA	No
TOTP 010D	0-10 Vdc	Yes
TOTP 420D	4-20 mA	Yes
TSSS	Sensor shield	

#### Technical data

<b>Measuring ranges</b>	8 different temperature ranges in same unit as standard selectable via jumpers on pcb. with manual zero point correction (+/-10K)
<b>Sensing element</b>	PT1000, DIN EN 60751, class B sensor inside external stainless steel sensor probe, 1.4571, V4A
<b>Accuracy</b>	0.3 K (Kelvin)
<b>Connections</b>	3-wire for 0-10 Vdc 2-wire for 4-20 mA
<b>Power supply</b>	24 Vac/dc +/- 10% for output 0-10 Vdc 15-35 Vdc for output 4-20 mA
<b>Ambient temperature</b>	-30°C to +70°C
<b>Humidity</b>	< 95% r.H. non-precipitating air
<b>Protection type</b>	IP65 (according to EN 60529)
<b>Protection class</b>	III (according to EN 60730)
<b>Housing material</b>	Plastic, material polyamide, 30% glass-globe-reinforced with quick-locking screws colour pure-white (similar RAL9010)
<b>Housing dimensions</b>	72x64x39 mm excluding cable entry gland
<b>Cable gland</b>	M16, including strain relief
<b>Standards</b>	CE conformity, electromagnetic compatibility according to EN 61326:2006 according to EMC directive 2004/108/EC
<b>Display</b>	single line display with illumination, cutout 37x15 mm (W x H), for displaying actual temperature (only for TOTP 010D and TOTP 420D)

#### Application/Description

Outdoor temperature transmitter TOTP is used for sensing temperature outside and indoors where IP65 is required.

The TOTP is used in heating, ventilation and air conditioning systems as reference sensor for weather-compensated control, measuring sensor, e.g. for optimization, or for measured value display, or for connection to a building management system

The TOTP outdoor temperature transmitters available with 4-20 mA and 0-10 Vdc output with 8 measuring temperature ranges selectable via jumpers on pcb, other ranges are available.

The IP 65 plastic housing is supplied with a plastic cable entry gland, connection terminal is under the cover.

The sensing element is placed in a probe outside the housing (external).

Always install the outdoor temperature sensor on north facing wall and at least 2.5 metres above ground.

Avoid to expose the unit for direct sunlight, if mounting the unit in sunlight it is recommended to use the sensor shield TSSS.

Do not mount the unit close to heat sources such windows, doors etc.

The cable entry should be pointing downwards.

#### TOTP

