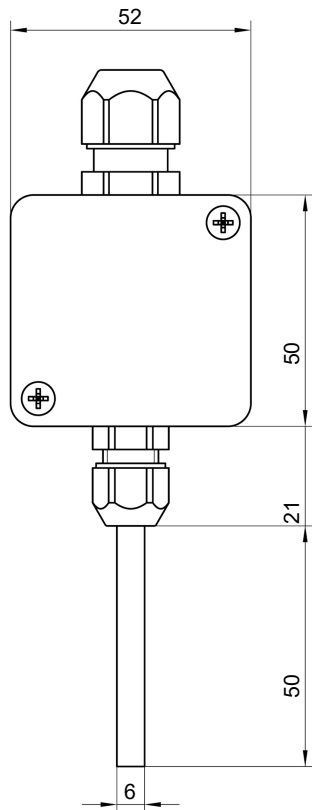


TW70 Outdoor resistance thermometer



Measuring element: Stainless steel insertion tube 1.4571
Measuring resistor 1x or 2x Pt100 DIN EN 60751

Casing: Material: Polycarbonate
Protection class: IP65 in accordance with
DIN EN 60529

Cable gland: M16 x 1.5
Material: Polyamide PA6
Clamping range: 5 - 10 mm
Spanner size: 19

Operating temp.: -25°C ... +80°C

Order codes

T	W	7	0		9	9	0		0		
---	---	---	---	--	---	---	---	--	---	--	--

Base type

Sensor with 1xPt100/2-wire ...> A
Sensor with 1xPt100/3-wire ...> B
Sensor with 1xPt100/4-wire ...> C
Sensor with 2xPt100/2-wire ...> D

Output

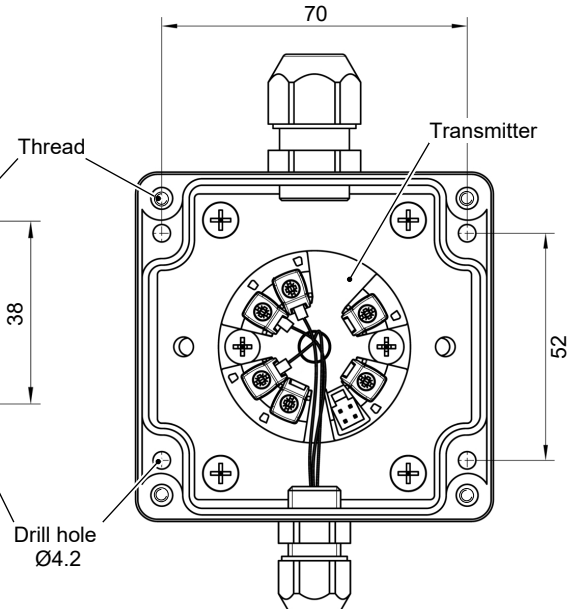
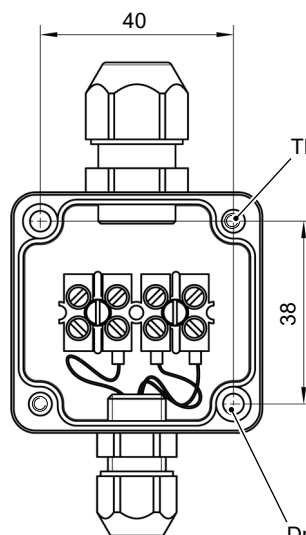
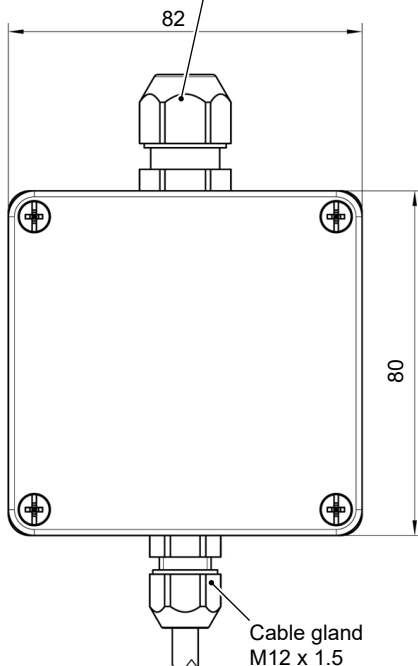
Resistor output> Y
2-wire transmitter 4-20 mA/24 Vdc*> L
3-wire transmitter 0-20 mA/24 Vdc*> M
(*only possible with basic type 1xPt100/3-wire)

Measuring range of the 2-L transmitter

Without transmitter.....>	0	0
-50 ... 0 °C>	1	0
-50 ... 50 °C>	2	0
0 ... 50 °C>	3	0

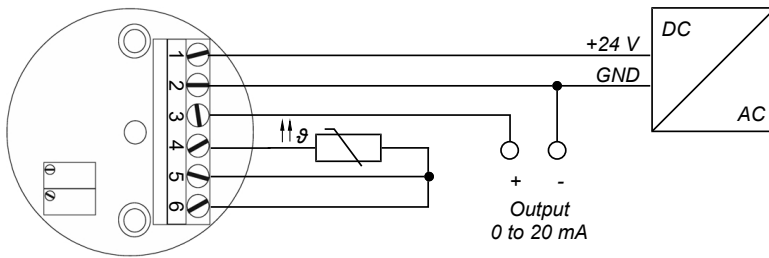
Cable screw connection
M16 x 1.5

Installation (Wall mounting)

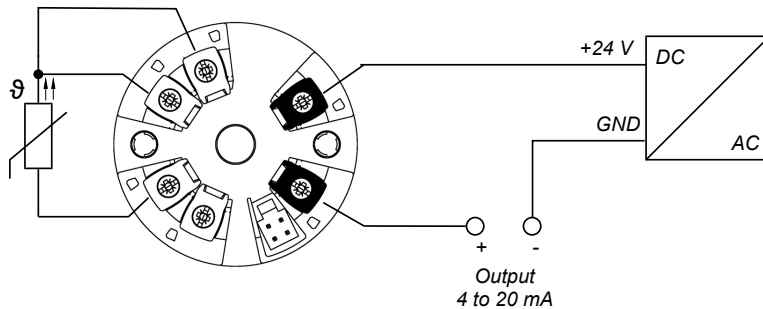


Electrical connection

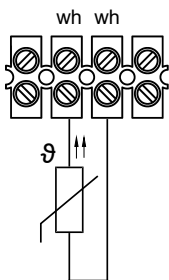
3-wire transmitter (Code M)



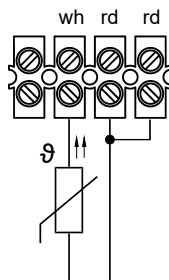
2-wire transmitter (Code L)



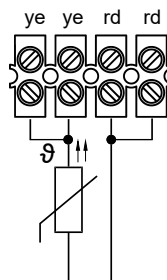
Resistor output (Code Y)



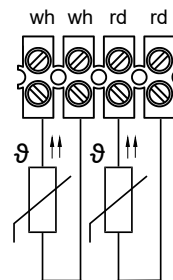
2-wire
Code A



3-wire
Code B



4-wire
Code C



2 x 2-wire
Code D



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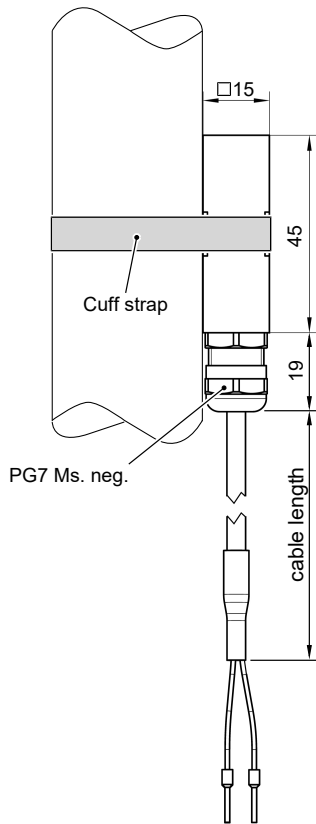
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TW71 Contact resistance thermometer



Measuring element: Measuring resistor 1x or 2x Pt100 DIN EN 60751

Casing: Material: Aluminium
Protection class: IP65 in accordance with DIN EN 60529

Connection cable: Sheath: Silicone
Conductor insulation: PTFE
Fixed wiring, various cable lengths

Operating temp. -50°C ... +180°C

Order codes

T W 7 1

8 0 Y 0 0 0

Base type

Sensor with 1xPt100/2-wire
Sensor with 1xPt100/3-wire
Sensor with 1xPt100/4-wire
Sensor with 2xPt100/2-wire
Sensor with 2xPt100/3-wire

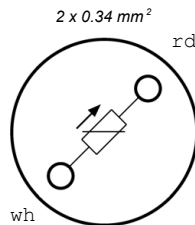
...> **A**
...> **B**
...> **C**
...> **D**
...> **E**

Cable length

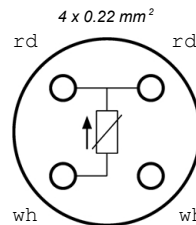
1 m> **1**
2 m> **2**
3 m> **3**
4 m> **4**
7 m> **5**
10 m> **6**
different cable length.....> **9**

Electrical connection

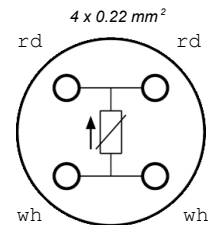
(Connection cable to the measuring element)



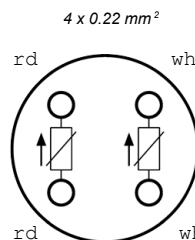
Code A



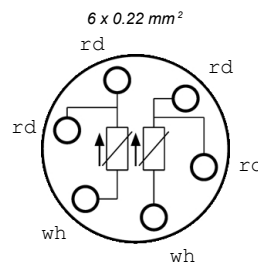
Code B



Code C



Code D



Code E





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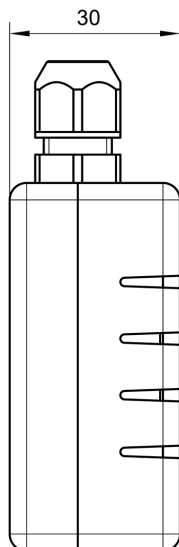
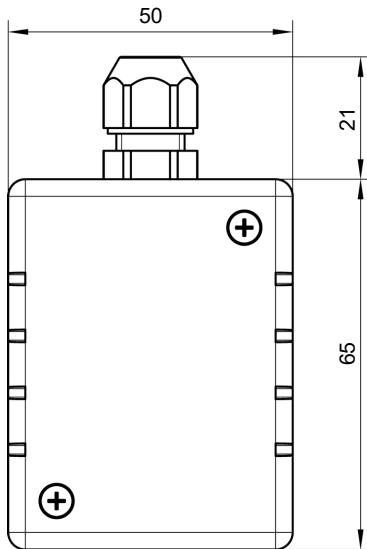
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TW72 Indoor resistance thermometer



- Measuring element: Pt100 measuring resistor to DIN EN 60751
4-wire connection
- Casing: Material: Polystyrene
Protection class: IP30 in accordance with
DIN EN 60529
- Connection terminal: Screw terminal with pull-on sleeve
Conductor cross-section: 0.25 mm² ... 2.5 mm²
Tightening torque: 0.5 Nm ... 0.6 Nm
- Cable gland: M12 x 1.5
Material: Polyamide PA6
Clamping range: 2.5 – 6.5 mm
Spanner size: 15
- Operating temp.: -10°C ... +65°C

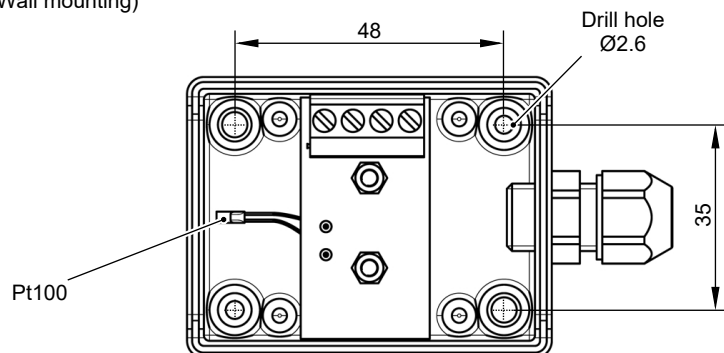
Order codes

T W 7 2

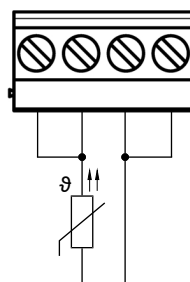
C 9 9 0 Y 0 0 0

Installation

(Wall mounting)



Electrical connection





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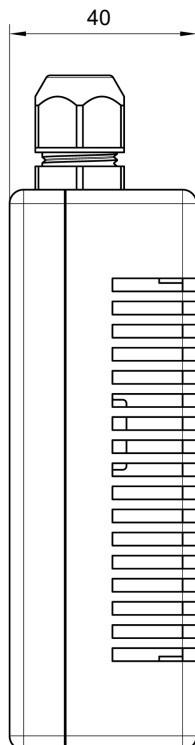
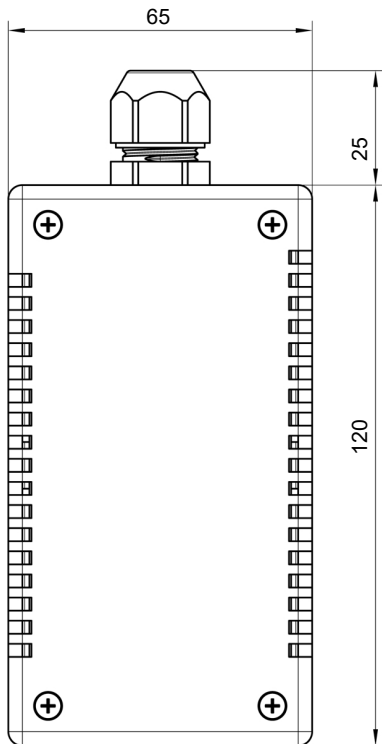
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TW73 Indoor resistance thermometer



Measuring element: Measuring resistor 1x or 2x Pt100 DIN EN 60751

Casing: Material: Polystyrene
Protection class: IP20 in accordance with DIN EN 60529

Terminal block: Material: Cresol resin (KrG)
Conductor cross-section: 0.33 mm² ... 4 mm²
Tightening torque: 0.4 Nm

Cable gland: M16 x 1.5
Material: Polyamide PA6
Clamping range: 5 - 10 mm
Spanner size: 19

Operating temp.: -20°C ... +60°C

Order codes



Base type

Sensor with 1xPt100/2-wire ... > A
Sensor with 1xPt100/3-wire ... > B
Sensor with 1xPt100/4-wire ... > C
Sensor with 2xPt100/2-wire ... > D

Output

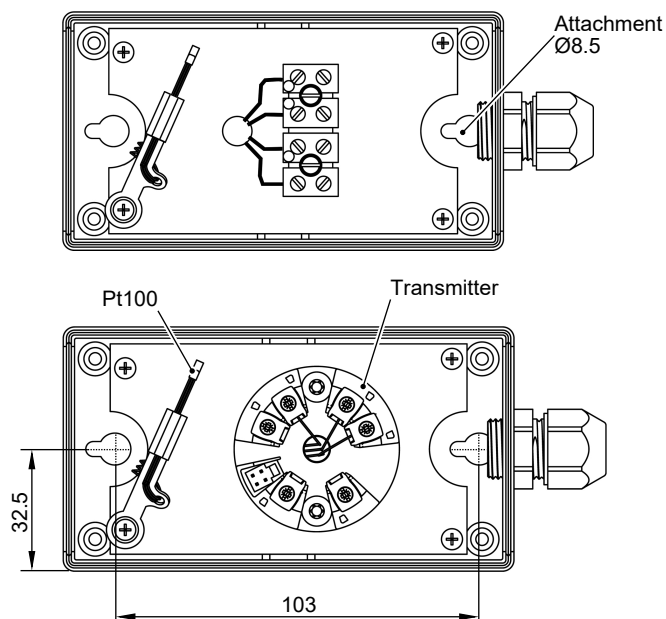
Resistor output > Y
2-wire transmitter 4-20 mA/24 Vdc* > L
(*only possible with basic type 1xPt100/3-wire)

Measuring range of the 2-L transmitter

Without transmitter.....	>	0	0
-50 ... 0 °C	>	1	0
-50 ... 50 °C	>	2	0
0 ... 50 °C	>	3	0

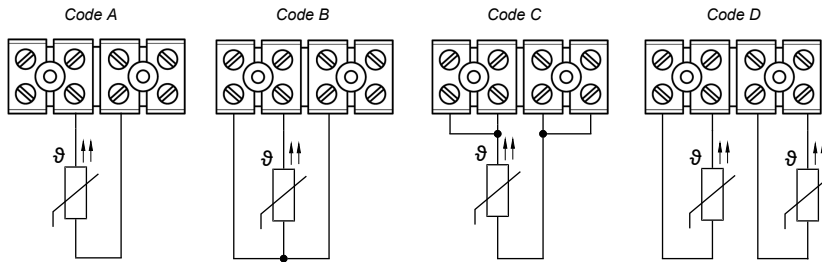
Installation

(Wall mounting)

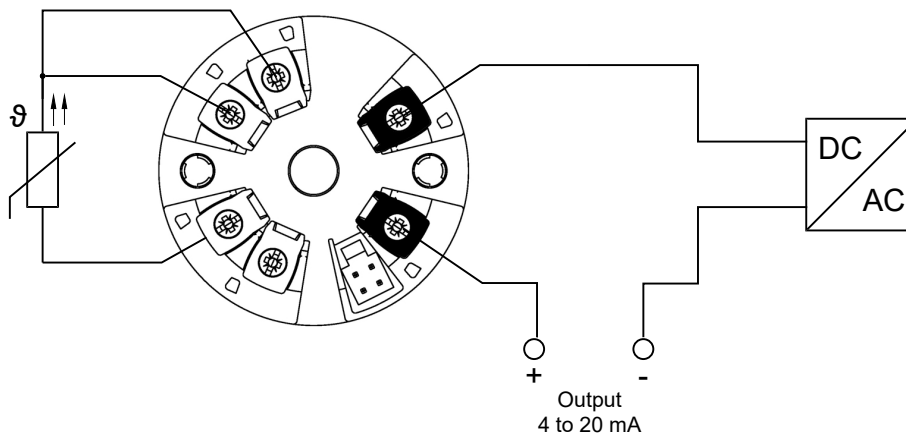


Electrical connection

Resistor output



Transmitter output



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