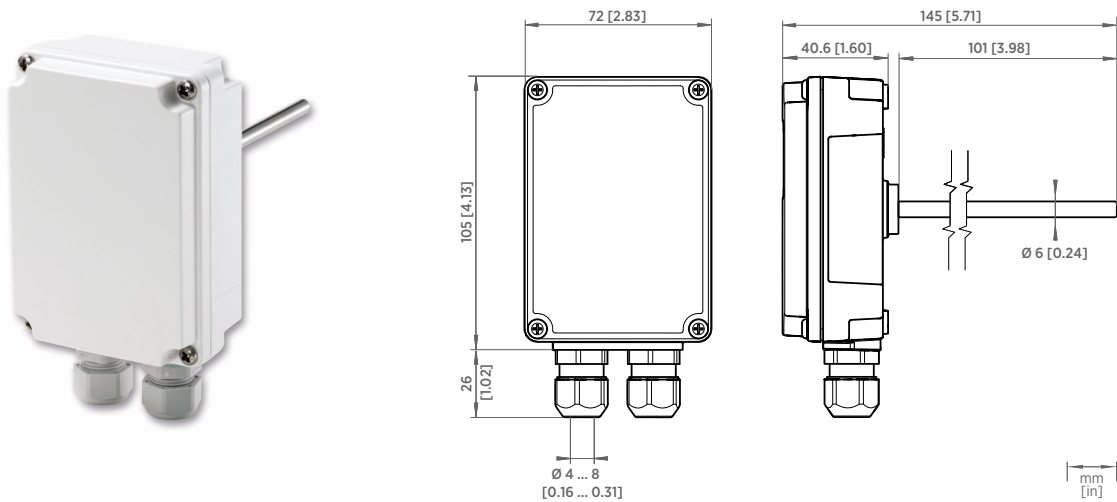M212730EN-A

Quick Guide | Vaisala Temperature Transmitter TMI110

Product overview

The TMI110 temperature transmitter is designed for measuring cooling/heating water temperatures in HVAC automation systems. When measuring the temperature of liquid, the transmitter is installed in a thermowell, as shown in this Quick Guide. For air temperature measurements, the transmitter can be installed in a duct using a flange.

The TMI110 temperature transmitter has two output options: analog (4 ... 20 mA) and Modbus® RTU. The transmitter's component board contains a service port, which can be used for field calibration of the device, and for changing the scale of measurement using Vaisala Insight PC software (available for download at www.vaisala.com/insight).

> ℹ For the full TMI110 product specifications and user guidance, see *TMI110 Datasheet* (B212427EN) and *HMDW110 Series User Guide* (M211726EN), available at docs.vaisala.com.
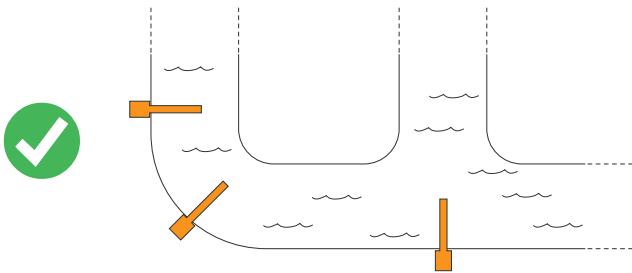
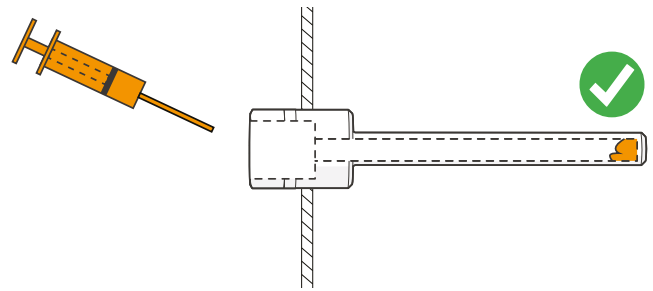VAISALA

Installation and wiring

- Medium size crosshead screwdriver (Pozidriv) for the screws on the cover
- Tools for cutting and stripping wires
- 19-mm open-end wrench for tightening the cable gland
- Heat transfer paste
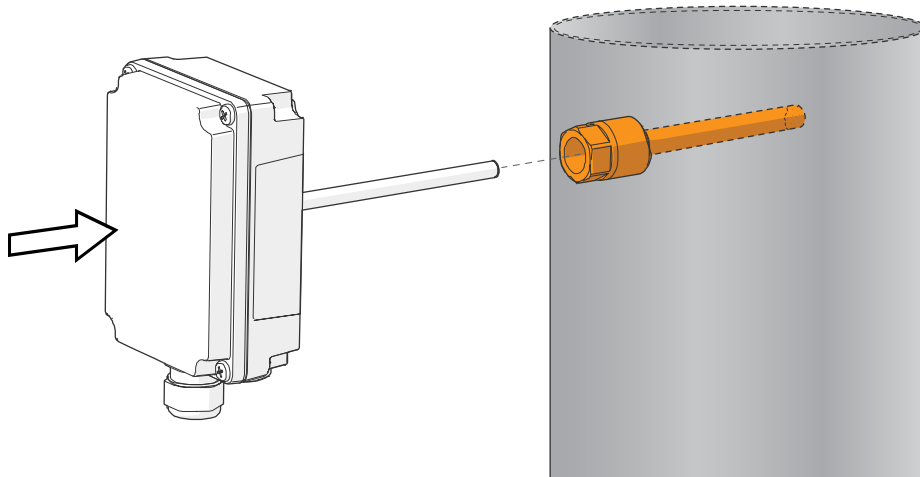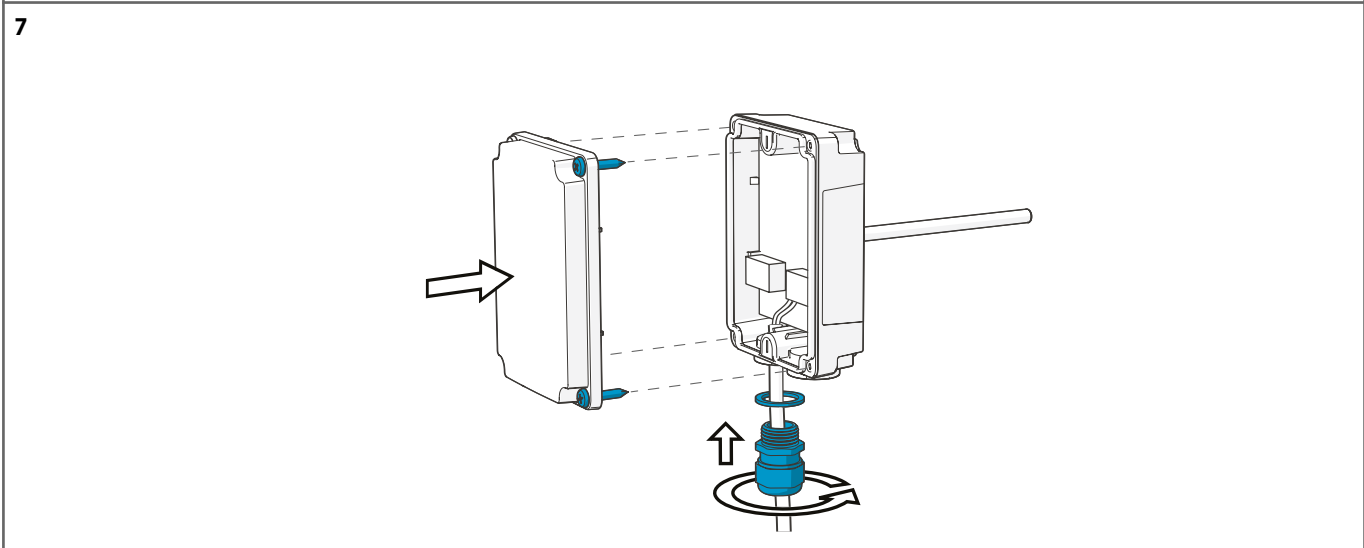- Thermowell installed in the pipe

1

2

3

4	**5**

6

TMI110 + Modbus

TMI110

6 T-
5 T+

4 Pwr +
3 Pwr -
2 RS485 -
1 RS485 +

DC power supply

10 ... 28 V DC

+

-

RS485 host

○ RS485 +
○ RS485 -
○ RS485 common

TMI110 + analog output

TMI110

6 T-
5 T+

4 Pwr +
3 Pwr -
2 RS485 -
1 RS485 +

4 ... 20 mA
$R_L = 0 ... 600 \ \Omega$
Ⓐ

Power supply

-

+

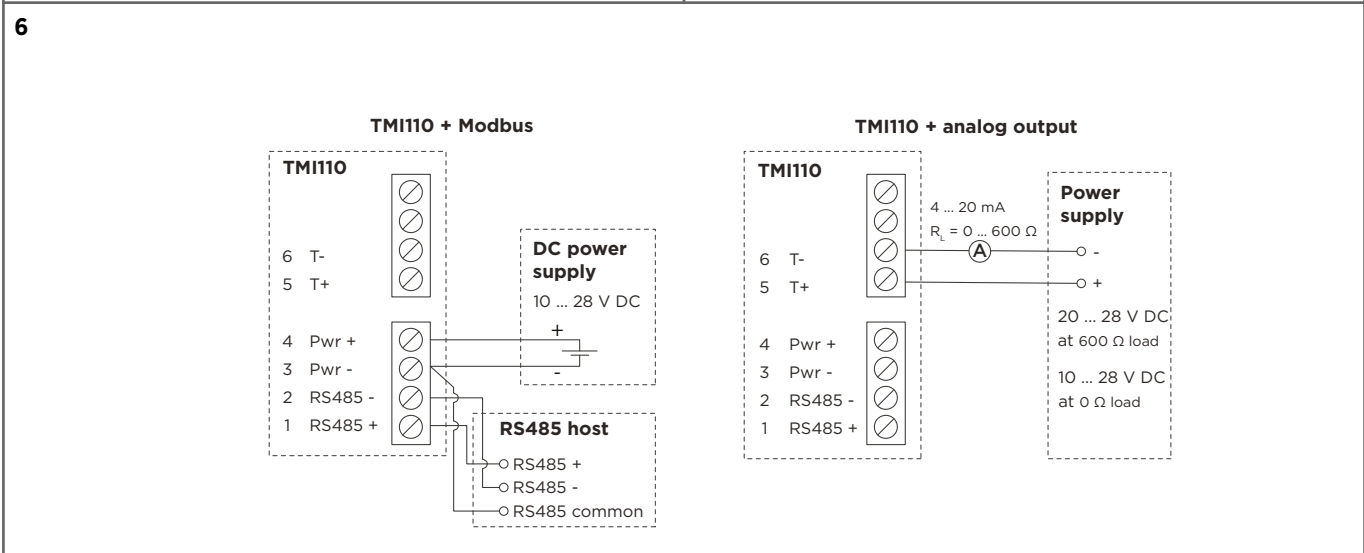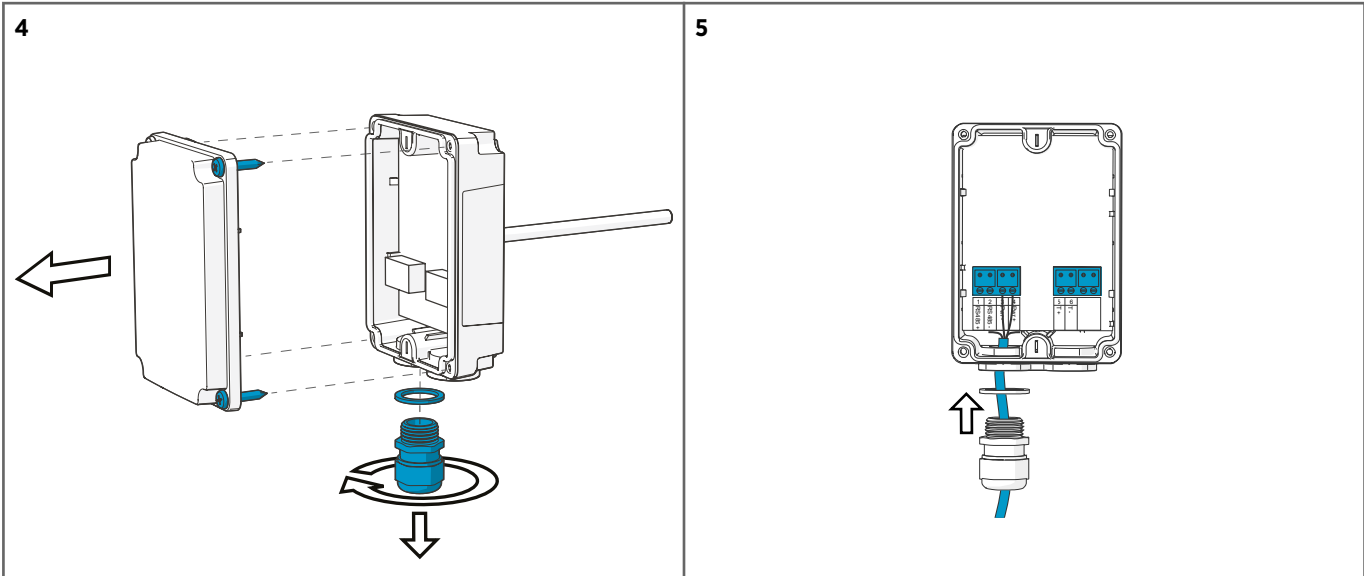20 ... 28 V DC
at 600 Ω load

10 ... 28 V DC
at 0 Ω load

7

Maintenance and calibration services

Vaisala offers comprehensive customer care throughout the life cycle of our measurement instruments and systems. Our factory services are provided worldwide with fast deliveries. For more information, see www.vaisala.com/calibration.

- Vaisala Online Store at store.vaisala.com is available for most countries. You can browse the offering by product model and order the right accessories, spare parts, or maintenance and calibration services.
- To contact your local maintenance and calibration expert, see www.vaisala.com/contactus.

Technical support

Contact Vaisala technical support at helpdesk@vaisala.com. Provide at least the following supporting information as applicable:

- Product name, model, and serial number
- Software/Firmware version
- Name and location of the installation site
- Name and contact information of a technical person who can provide further information on the problem

For more information, see www.vaisala.com/support.

Warranty

For standard warranty terms and conditions, see www.vaisala.com/warranty.

Please observe that any such warranty may not be valid in case of damage due to normal wear and tear, exceptional operating conditions, negligent handling or installation, or unauthorized modifications. Please see the applicable supply contract or Conditions of Sale for details of the warranty for each product.

Recycling

Recycle all applicable material.

Follow the statutory regulations for disposing of the product and packaging.