

Installation instructions for the Temperature sensor, extract air duct, TBLZ-1-76 GOLD

1. General

The temperature sensor is used for measuring the temperature in an extract air duct, for example in applications involving evaporative cooling.

The temperature sensor is supplied with a 7 metre long cable for bus communication and is connected by means of its modular connector.

The communication cable is used for voltage feed and signal transmission.

Secure the sensor to the ventilation duct using the duct mounting bracket supplied.

The temperature values are transmitted via Modbus communication to the air handling unit control circuit card.



2. Installation

Install the temperature sensor inside the extract air duct. The temperature sensor's mounting position will not affect its operation but it should not be installed vertically with its connection pointing down since this could cause moisture to accumulate inside the sensor.

It is important to install the sensor so that the sensor housing (in the point of the sensor) is positioned in the centre of the duct.

Connection port	RJ 12 6/6
Voltage feed (Via modular connector)	24 V DC
Range of measurement	-40 – 123°C
Measurement accuracy	<0.5°C, 15 – 40°C
Resolution, temp.	0.01 °C
Enclosure class:	
inside the duct	IP32 to EN 60529
outside the duct	IP54 to EN 60529

Technical drawing of the RJ12 cable assembly. The drawing shows a side view of the cable with various components and dimensions labeled.

Dimensions:

- Overall length: 300 ± 5
- Distance from the end of the cable to the center of the RJ12 connector: 7000 ± 20
- Distance from the center of the RJ12 connector to the center of the Duct mounting bracket: 25
- Cable diameter: $\varnothing 12$

Labels:

- Packaging
- Duct mounting bracket
- Decal
- Cable
- Modular connector RJ12 6/6 gold plated contactor

Wire the temperature sensor to the control circuit card through the junction hood cable grommets or on the inspection side of the air handling unit.

The temperature sensor should be connected to the internal communication bus.

Possible connections are circled in the figure to the right.

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