

Installation Instructions for the TBLZ-1-32 Temp. Sensor GOLD/COMPACT

1. General

The strap-on temperature sensor is designed for mounting against the surface to be monitored.

The sensing element in the temperature sensor is mounted against the inner side of its metal housing for least possible sensing retardation as temperature changes occur.

The metal housing is filled with insulating plastic to make the sensor water-tight and to reduce possible temperature influence from the surroundings.

2. Field of Application

The strap-on sensor is included in various applications.

Swegon Office

As a supply line sensor for dew point control.

GOLD air handling unit with coil heat exchangers

As a limiting sensor to counteract freezing.

Reheating coil

As an anti-frosting sensor instead of an insertion sensor.

3. Installation

The sensor should be mounted against the pipe/surface, where measurements are to be taken, by means of a hose clamp or bundling strap. The side with plastic fill must face away from the pipe. It is important that the sensing element comes in good contact with a clean surface. A better contact can be achieved by applying contact paste to the surface before fitting the sensor.

The whole sensor body plus 5 cm in both directions along the surface being monitored must be covered with insulation. This insulation will protect the sensor from interference by the ambient temperature.

4. Technical Data

Degree of protection: IP 67

Measurement range: -50 – +70 °C

5. Electrical Connections

The conductors of the strap-on sensor are connected to various places in the control equipment, depending on its intended function, see below.

Swegon Office

If the sensor is used as a supply line sensor for dew point control:

Connect the sensor to the IQnomic plus module set to setting 7 (see the instructions for the TBIQ). Brown conductor (GND) to terminal 23 and white conductor to terminal 24, see the figure below.

GOLD CX (Coil heat exchangers)

If the sensor is used as a limiting sensor to counteract freezing: Connect the sensor to the IQnomic plus module set to setting 1. Brown conductor (GND) to terminal 23 and white conductor to terminal 24, see the figure below.

Reheating Coil

If the sensor is used as an anti-frosting sensor, instead of an insertion sensor:

Connect the sensor to terminals provided in the junction box that is included in the cable kit for the water coil. The strap-on sensor then replaces the insertion sensor included in the cable kit, see under the heading Connections in the instructions for the TBLZ-1-27.

