

# Installation instructions for the TBLZ-1-60-2-2 VOC Sensor GOLD/COMPACT LP, Unit, Top

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## 1. General

The VOC sensor is used in ventilation systems in which it is important to measure and/or regulate the air quality. Program version 1.17 or later is required for GOLD RX/PX/CX/SD, and program version 3.04 or later for GOLD LP/COMPACT LP, Unit, Top.

### Description

The VOC 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.

### Function

The VOC level is transmitted via Modbus communication to the air handling unit control circuit card.



## 2. Installation

The VOC sensor can be installed in the supply air duct or the extract air duct. If the WISE Apartment function is used, the sensor should be installed in the supply air duct. If the ReCO<sub>2</sub> function and VAV demand control are used, the sensor should be installed in the extract air duct.

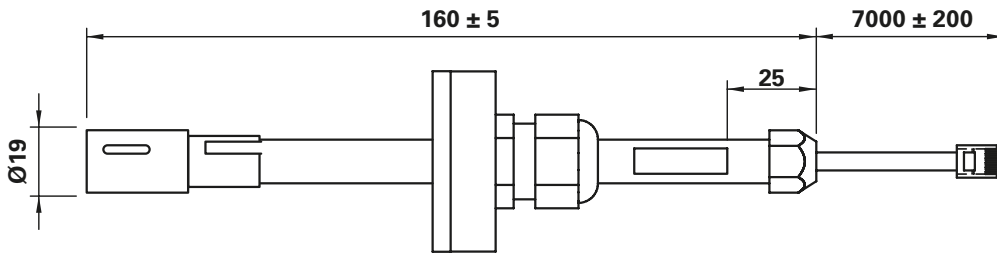
The VOC sensor's mounting position will not affect its operation but it should not be installed vertically with its connection pointing down since this could cause moisture to accumulate inside the sensor.

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.

**3. Technical data**

Connection port	RJ 12 6/6
Voltage feed (Via modular connector)	24 V DC
Range of measurement, VOC	450 - 10,000 ppm
Enclosure class: inside the duct	IP22 to EN 60529
outside the duct	IP54 to EN 60529

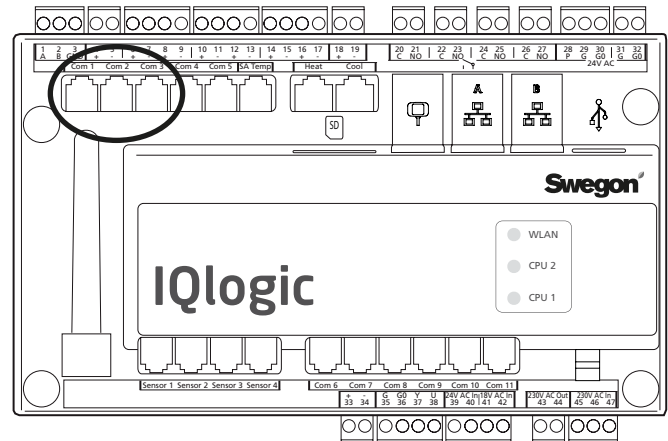
**Dimensions**



**4. Electrical connections**

The VOC sensor is connected electrically to the internal communications bus on the ventilation unit's control card. Possible connections are encircled in the figure to the right

**GOLD RX/PX/CX/SD, Version E/F**



**GOLD LP/COMPACT LP, Unit, Top**

