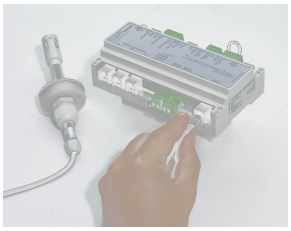
TROX® TECHNIK
The art of handling air



Plug-and-play connection of components

Zone modules

X-SENS-SPLITTER

Quadruple distributor X-SENS-SPLITTER

X-SENS

SENSORS FOR X-AIRCONTROL ZONE MODULES

Components for measuring and recording various measured variables and conditions in systems for single room control and centralised control – such as X-AIRCONTROL

- Combined temperature and humidity sensor
- Dew point monitor
- Air quality sensor
- Presence detector (PIR sensor)
- Splitter

Allgemeine Informationen

Application

- Sensors for the X-AIRCONTROL control system
- For connection to the zone modules X-AIR-ZMO-... (ANA, MP, MOD) and master modules X-AIR-ZMAS
- Duct temperature sensor for supply air and extract air - combination sensor temperature and humidity as duct sensor for extract air
- Air quality sensor as a duct sensor for measuring of volatile organic compounds (VOC) in the extract air

- Air quality sensor as duct sensor for measuring metallic oxides (CO_2) in the extract air
- Air quality sensor for measuring the CO_2-content in the room air, and for measuring humidity as a room sensor
- Dew point monitor for monitoring condensation on chilled ceilings, etc.
- Presence detector for detecting the presence of people in the room
- Quadruple distributor for sensors and operating units with Modbus (splitter)

Variants

- TEMP-RH-EXH: Combined temperature and humidity sensor for extract air
- TEMP-PT1000: Duct temperature sensor (PT1000)
- VOC-EXH: Air quality sensor (VOC)
- CO2-EXH: Air quality sensor (CO_2)
- CO2-RH: Combination sensor CO_2 and humidity sensor
- DEWPT: Dew point monitor
- PIR-SM: Presence detector (PIR sensor), detection range 180°
- PIR-FM: Presence detector (PIR sensor), 360° field of detection
- SPLITTER: Quadruple distributor for sensors and operating units with Modbus

Maintenance

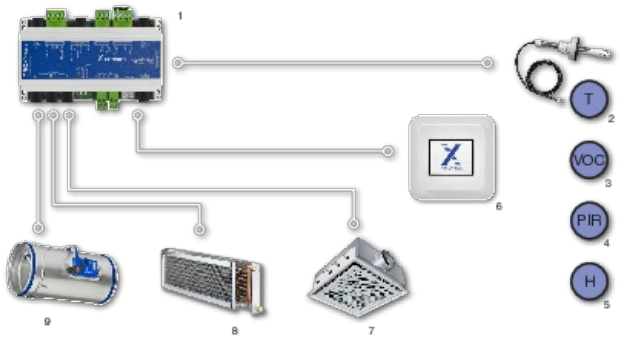
- Maintenance-free, as construction and materials are not subject to wear and tear
- Checking and cleaning, in particular if the device is used in a room or in an extract air duct
- Regular cleaning (dust removal) is recommended

INFORMATION TECHNIQUE

X-SENS sensors include various components for comfort-oriented room control, e.g. temperature detection, humidity measurement, air quality analysis (VOC/CO_2) and presence detection.

Depending on the application, different sensors can be connected to an X-AIRCONTROL zone module. The X-SENS sensors are mostly recognised automatically by the zone module. The measured values are included in the regulation of the room.

X-AIRCONTROL zone



1 Zone module

2 Temperature sensor

3 Air quality sensor

4 Presence detector (PIR sensor)

5 Humidity sensor

6 Control panel

7 Cooling, e.g. active chilled beam

8 Heating, e.g heating coil

9 Volume flow control

X-SENS	–	VOC-EXH
|		|
1		2

1 Type
X-SENS Sensor

2 Variant
TEMP-RH-EXH Combined temperature and humidity sensor for extract air ducts
TEMP-PT1000 Duct sensor temperature PT1000
VOC-EXH Air quality sensor VOC for extract air duct
CO2-EXH Air quality sensor CO_2 for extract air duct
CO2-RH Combined CO_2 and humidity sensor
DEWPT Dew point monitor
PIR-SM Presence detector (PIR), detection range 180°
PIR-FM Presence detector (PIR), detection range 360°
SPLITTER Quadruple distributor for sensors and operating units with Modbus