TREND

Important: Retain these instructions

These instructions shall be used by trained service personnel only. If the equipment is used in a manner not specified by these instructions, the protection provided by the equipment may be impaired.
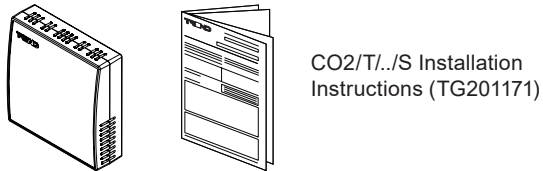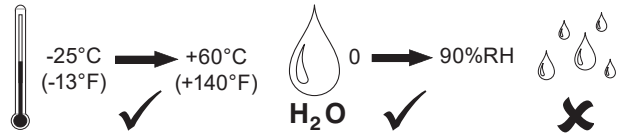
https://partners.trendcontrols.com

CONTENTS

1   BOX CONTENTS

CO2/T/../S Installation Instructions (TG201171)

2   STORING

-25°C (-13°F) → +60°C (+140°F) ✓

H_2O 0 → 90%RH ✓   ✗
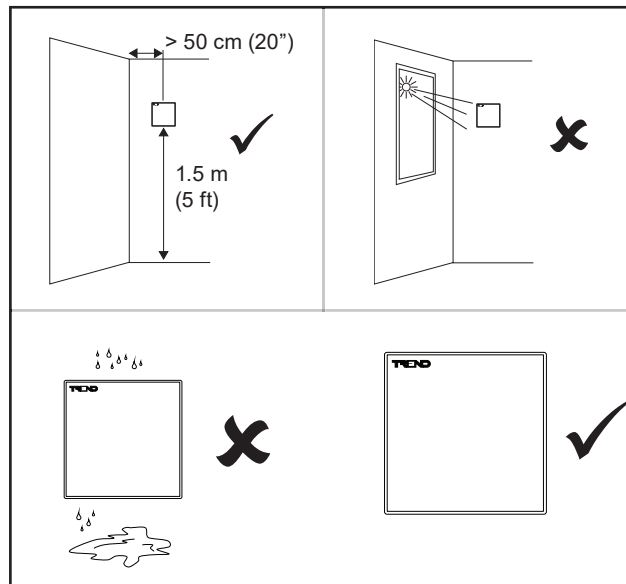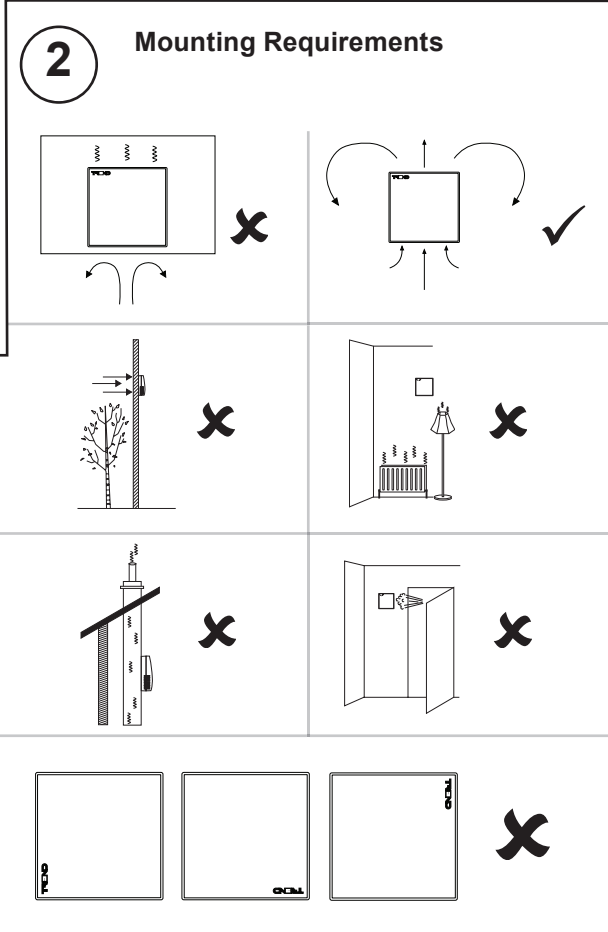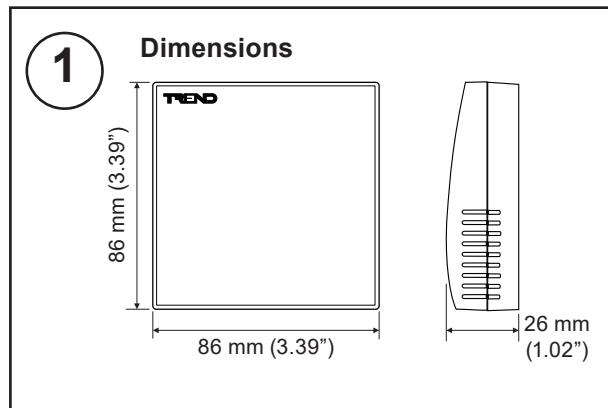
3   INSTALLATION

3.1   Installation - Mounting

It is recommended that the installation should comply with the local electrical safety installation practices (e.g. HSE Memorandum of Guidance on Electricity at Work Regulations 1989, USA National Electric Code).

① Dimensions

86 mm (3.39")
86 mm (3.39")
26 mm (1.02")

② Mounting Requirements

> 50 cm (20")
1.5 m (5 ft)

3.1   Installation - Mounting (continued)

2   **Requirements** (continued)

-20 °C
(-4 °F)

+60 °C
(+140 °F)   ✓

0 °C
(32 °F)   →   +40 °C measurement
(104 °F)

H_2O 0 %RH   →   100 %RH   ✓
non -condensing

3   **Remove Backplate**

4   **Mounting Backplate**

Do not use this hole

wall box   60 mm (2.36")

back box (BESA)

wall

35 mm (1.38")

35 mm (1.38")

35 mm (1.38")
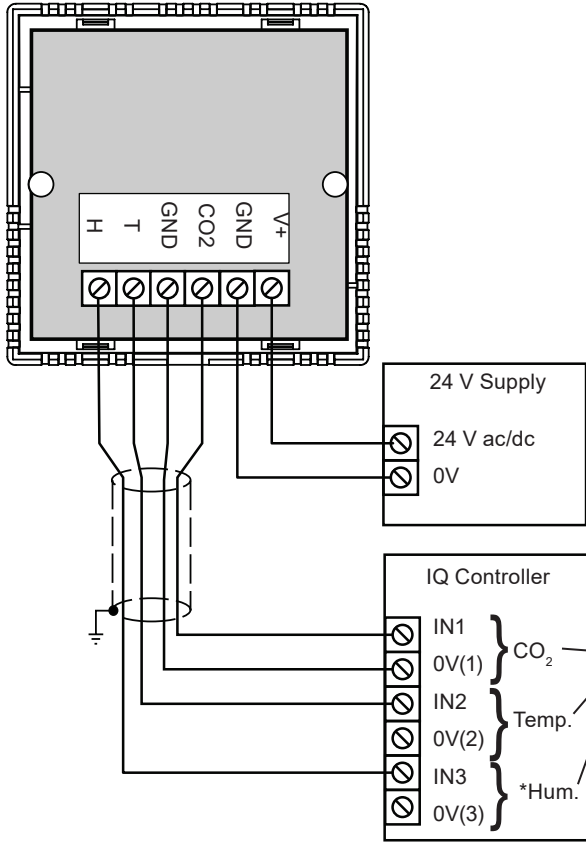
35 mm (1.38")

5   **Remove cutout(s)** (as required)

6   **Route cable(s)**

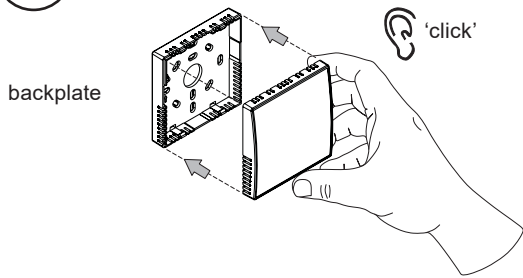## 3.1   Installation - Mounting (continued)

(7) Wire to Controller

When connecting to an IQ4 controller the following limits apply if the IQ4 is to provide power. If the sensor is powered from a separate power supply these limits do not apply.

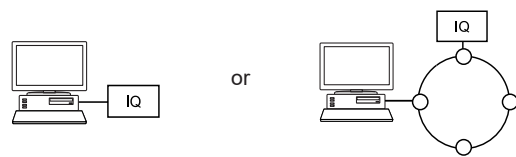| Controller	Max No of CO2 sensors
IQ41x	0
IQ422/24V	1
IQ422/230V	6
IQ4E/230V	6

The 24 Vac/dc supply should be dedicated, isolated, and greater than 650 mA.

Terminals: H T GND CO2 GND V+

24 V Supply
- 24 V ac/dc
- 0V

IQ Controller
- IN1
- 0V(1)   } CO_2
- IN2
- 0V(2)   } Temp.
- IN3
- 0V(3)   } *Hum.

3 analogue input channels linked for Voltage (V), ensure correct polarity

*The humidity (H) output is only available on CO2/T/H/S.

(8) Assemble unit

backplate

'click'

(9) Configure Controller

or

IQ

IQ Configuration Manual (90-1533)
IQ3 Configuration Manual (TE200768)
IQ4 Configuration Manual (TE201263)

3.2   Installation - Configuring

10   **Set up IQ Sensor Types**

Use SET to setup the sensor type module to use the appropriate 'Unique Sensor Reference'.

Carbon dioxide concentration:
    0 to 10 V for 0 to 2000 ppm

Controller	Unique Sensor Reference
IQ3, IQ4, IQeco, IQ2 >v2.1	C02 V
IQ1, IQ2 <v2.0	Refer to the IQ Configuration Manual (90-1533)

Temperature:
    0 to 10 V for 0 to +40 °C (32 to 104 °F)

Controller	Unique Sensor Reference
IQ3, IQ4, IQeco, IQ2 >v2.1	Temp V 0+40 for value in °C Temp V +32+104 F for value in °F
IQ1, IQ2 <v2.0	Refer to the IQ Configuration Manual (90-1533)

Humidity:
(/H/ option only)
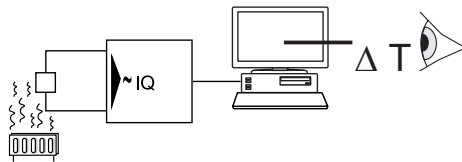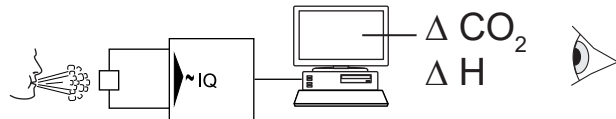0 to 10 V for 0 to 100 %RH. Measurement range 0 to 95 %RH

Controller	Unique Sensor Reference
IQ3, IQ4, IQeco, IQ2 >v2.1	Humidity V
IQ1, IQ2 <v2.0	Refer to the IQ Configuration Manual (90-1533)

11   **Test System**

Temperature CO_2 Concentration, Humidity (/H/ option only)

4   CLEANING AND MAINTENANCE

Over time, the sensing element may become covered in dust. The dust can be removed using compressed air. Under no circumstances should water or cleansing agents be used on the sensing elements.

5   DISPOSAL

WEEE Directive:
At the end of their useful life the packaging, product, and battery (if fitted) should be disposed of by a suitable recycling centre.
Do not dispose of with normal household waste.
Do not burn.

TR CU Certification

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