

Space CO2, Humidity and Temperature Sensors

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>



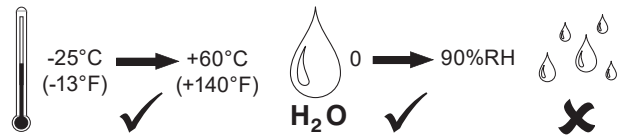
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1 BOX CONTENTS

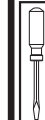


2 STORING

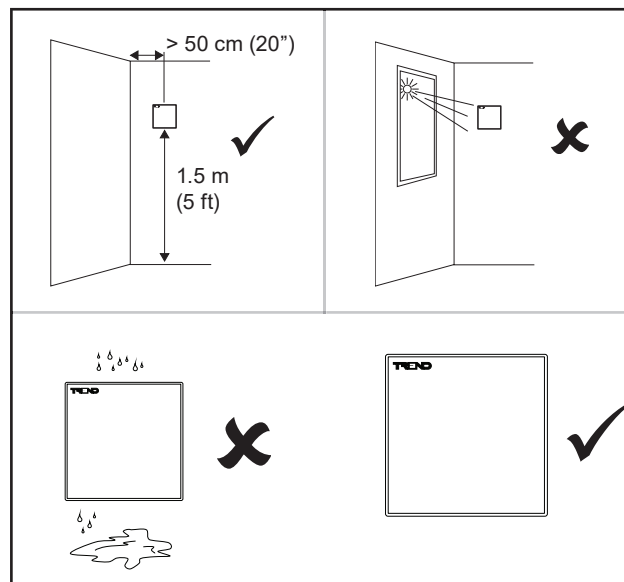
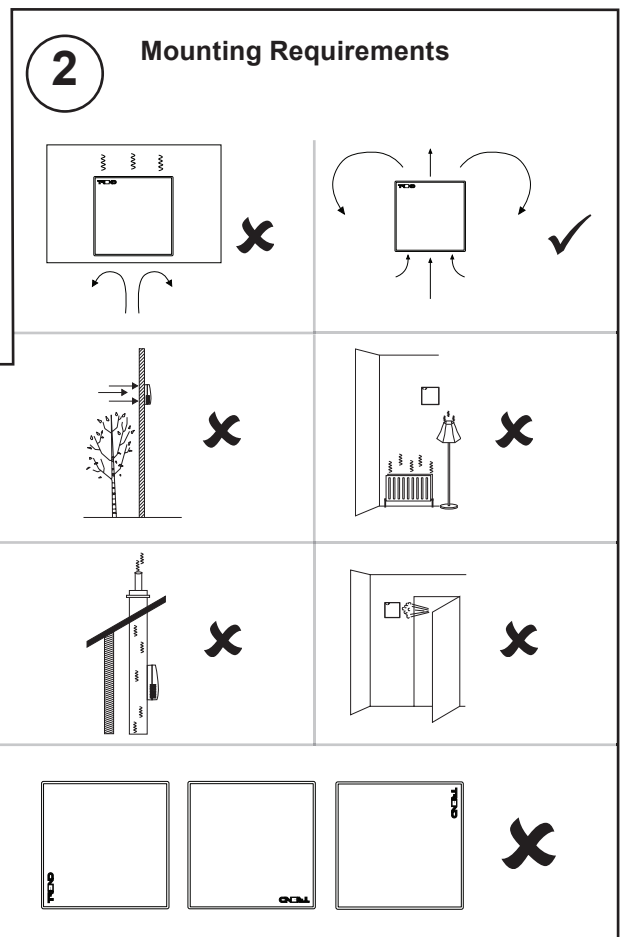
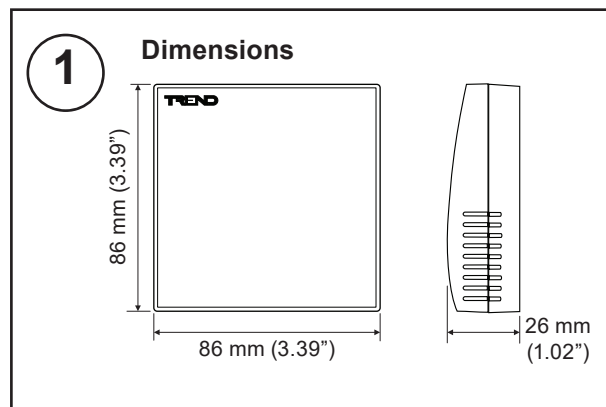


3 INSTALLATION

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).



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) ✓
 H₂O 0 %RH → 100 %RH non-condensing ✓

3 Remove Backplate

4 Mounting Backplate

Do not use this hole

60 mm (2.36")

35 mm (1.38")

35 mm (1.38")

35 mm (1.38")

35 mm (1.38")

back box (BESA)

wall box

wall

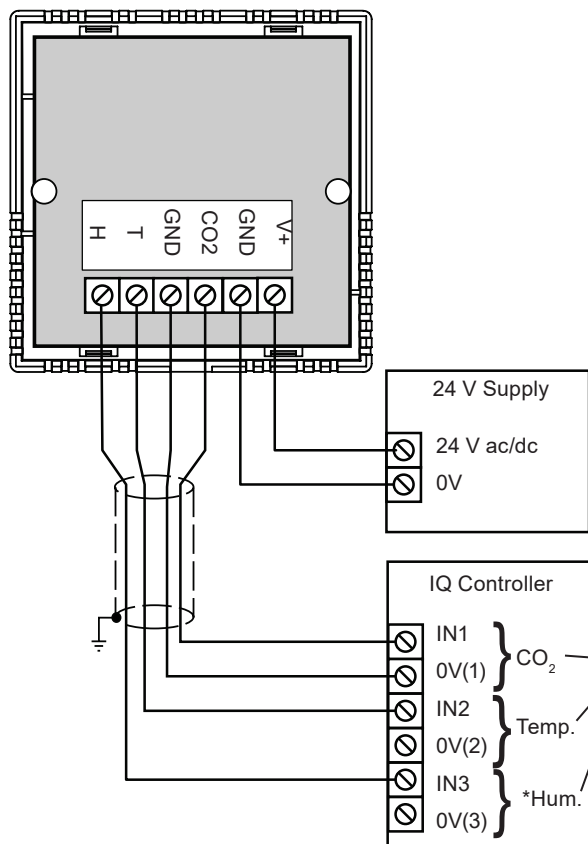
5 Remove cutout(s) (as required)

6 Route cable(s)

3.1 Installation - Mounting (continued)

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Wire to Controller



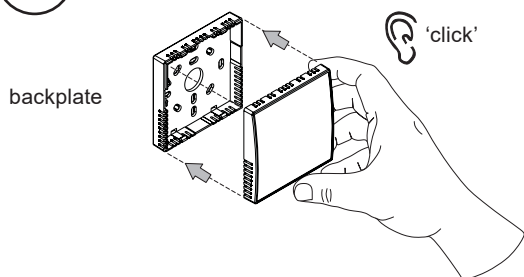
When connecting to an IQ4 controller the following limits apply if the IQ4 is to provide power. If the sensor is powered from a separate power supply these limits do not apply.

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.

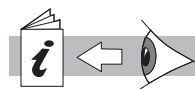
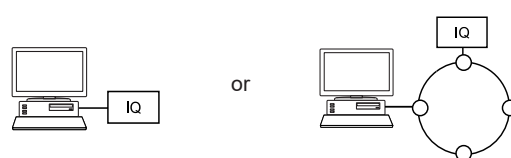
8

Assemble unit



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Configure Controller



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

3.2 Installation - Configuring

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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	CO2 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)

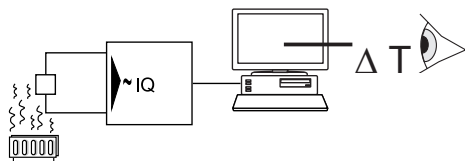
0 to 10 V for 0 to 100 %RH. Measurement range 0 to 95 %RH

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

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Test System

Temperature



CO₂ 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.

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