

Duct CO2 and Temperature Sensor

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.

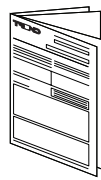
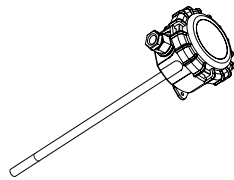
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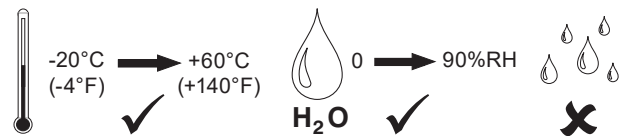
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CO2/T/D Installation
Instructions
(TG201170)

2 STORING

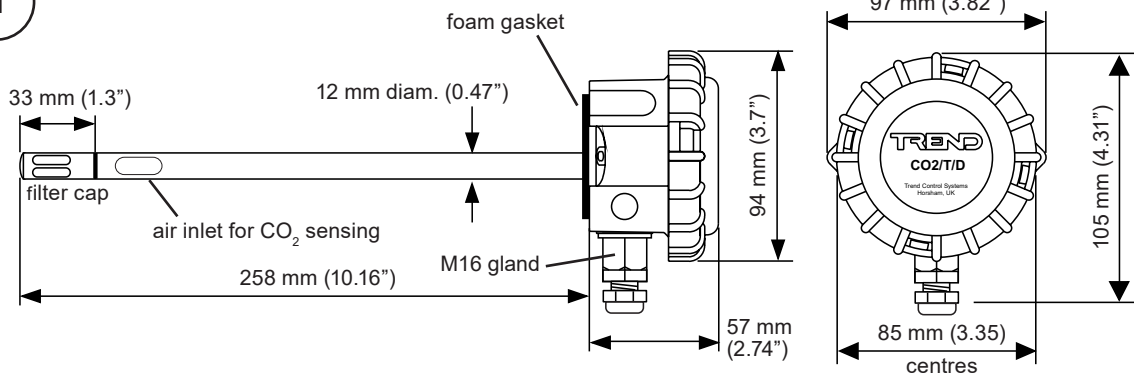


3 INSTALLATION

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).

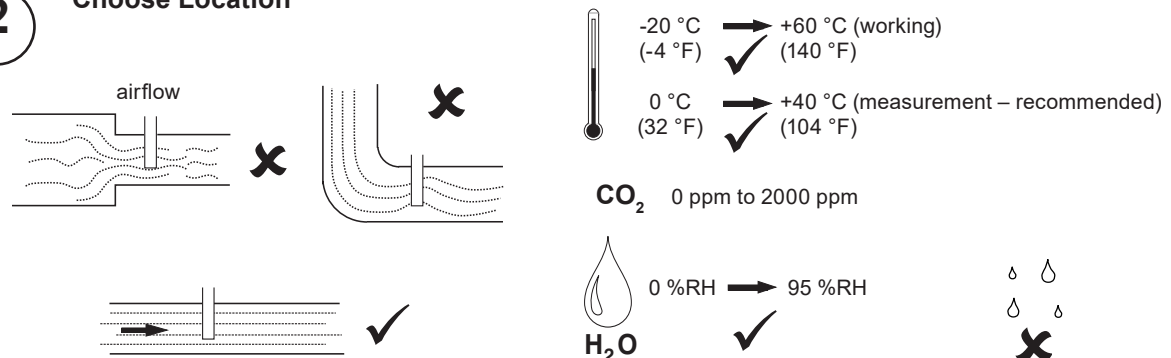
1

Dimensions

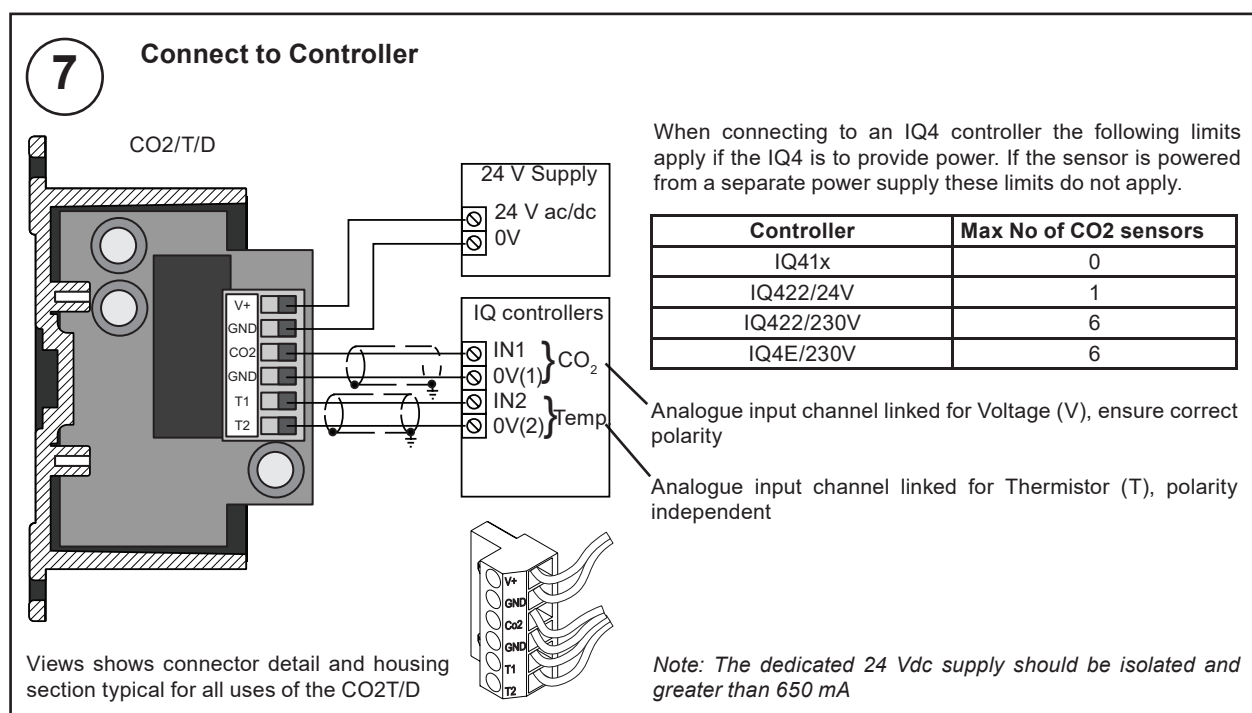
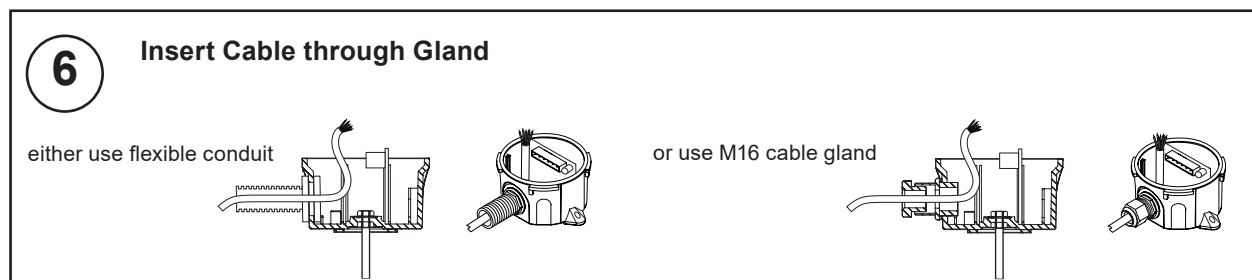
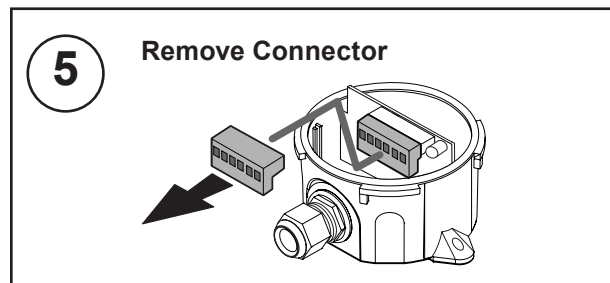
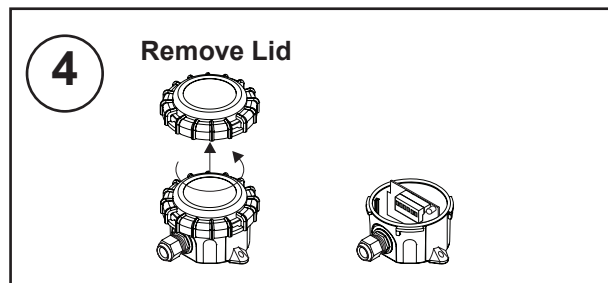
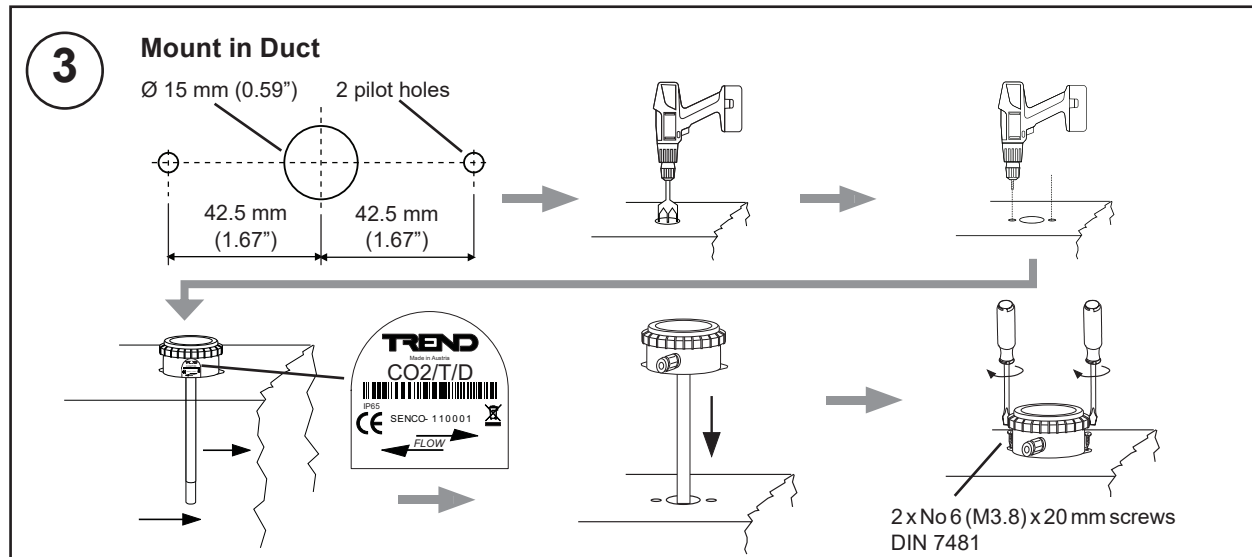


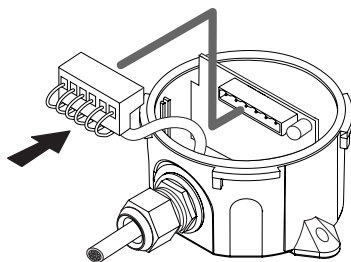
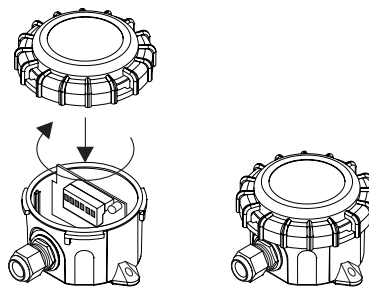
2

Choose Location

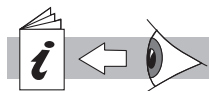
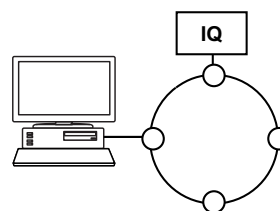


3 INSTALLATION (continued)



3 INSTALLATION (continued)**8****Replace Connector****9****Replace Lid****10****Configure Controller**

or



IQ Configuration Manual (90-1533)
 IQ3 Configuration Manual (TG200768)
 IQ4 Configuration Manual (TG201253)

11**Set up IQ Sensor Types**

It is recommended to use SET (Software Tool) for the setting of the sensor type module. For all IQ2 series controllers with firmware version 2.1 or greater, IQ3 or IQ4 series controllers, the following SET Unique Sensor References should be used:

Thermistor HTST DT (°C)
Thermistor HTST DT F (°F)
CO2 V (ppm)

Alternatively set scaling mode to 5 (characterise) and enter scaling manually as defined in appropriate tables below. Note that for IQ3 and IQ4, the scaling mode and exponent (E) do not need to be set up.

For all other IQ controllers see Sensor Scaling Reference Card (TB100521A).

CO₂ concentration voltage output 0 to 10 V for 0 to 2000 ppm

Units		ppm
Y	Input type	0 (volts)
E	Exponent	4
U	Upper	2000
L	Lower	0
P	Points	2
x	Ix	Ox
1	0	0
2	10	2000

Temperature thermistor recommended range: 0 to 40 °C (32 to 104 °F)

Units		°C	°F
Y	Input type	1 (thermistor volts)	
E	Exponent	3	
U	Upper	50	122
L	Lower	-5	23
P	Points	6	
x	Ix	Ox (°C)	Ox (°F)
1	2.641	50	122
2	3.47	40	104
3	4.46	30	86
4	6.663	10	50
5	7.668	0	32
6	8.102	-5	23

3 INSTALLATION (continued)

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Test System



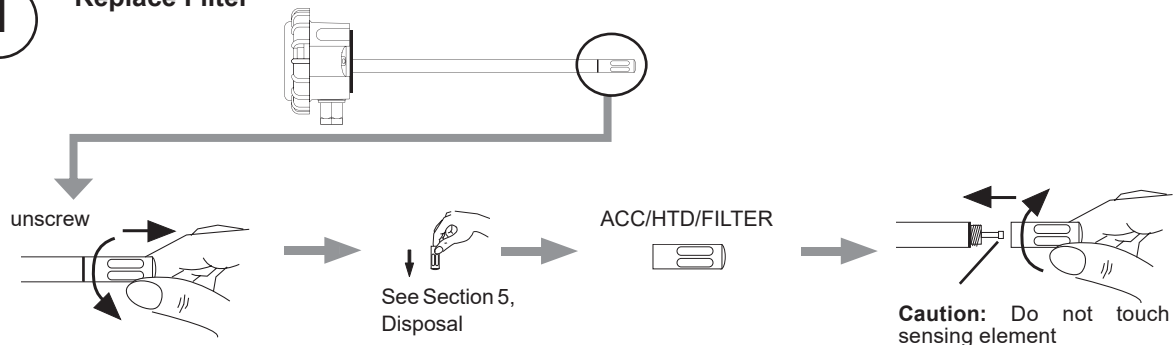
4 MAINTENANCE

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.

If the sensor falls outside the quoted accuracy, replace the filter as shown below.

1

Replace Filter



5 DISPOSAL



WEEE Directive:

At the end of their useful life the packaging and product should be disposed of by a suitable recycling centre.

Do not dispose of with normal household waste.

Do not burn.

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TR CU Certification

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