

Installation Instructions CO2/T/D Duct CO2 and Temperature Sensor

https://partners.trendcontrols.com

+60°C

(+140°F)

STORING

-20°C

(-4°F)

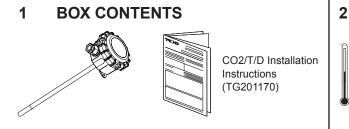
Important: Retain these instructions

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.

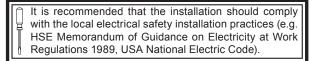
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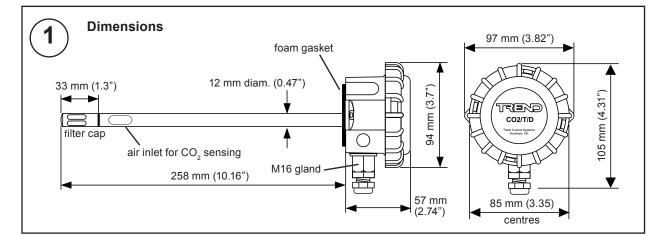


3 INSTALLATION



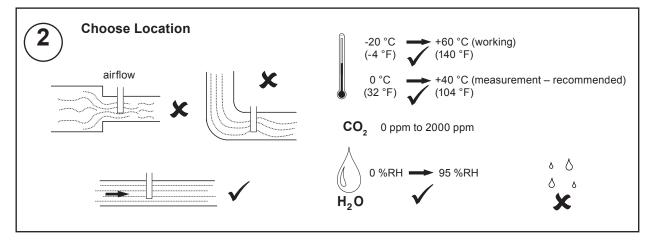
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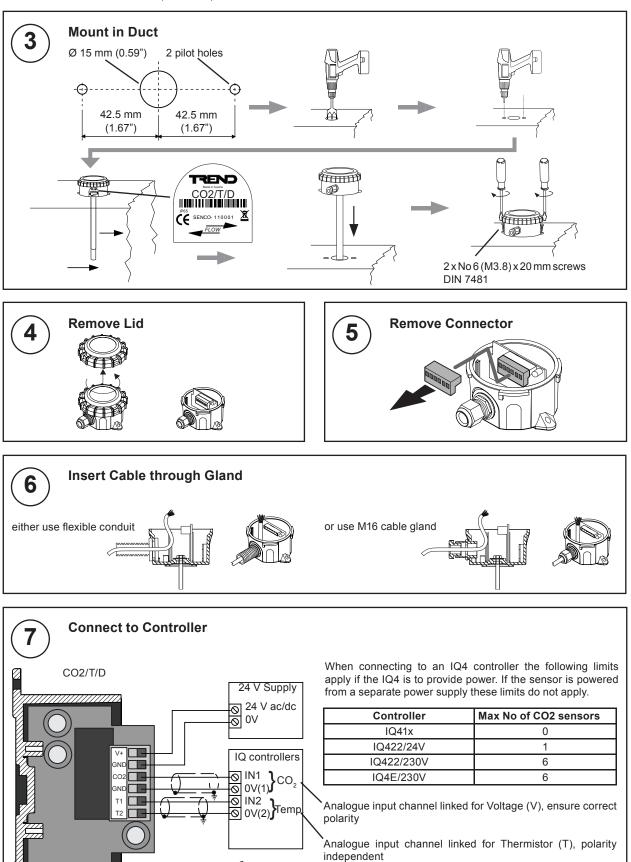
CO2/T/D Installation Instructions TG201170 Issue 5, 22-Dec-2015.

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90%RH

3 INSTALLATION (continued)



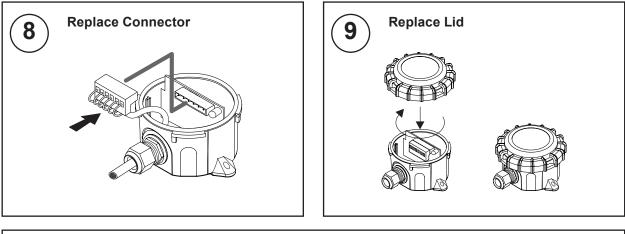
Note: The dedicated 24 Vdc supply should be isolated and greater than 650 mA

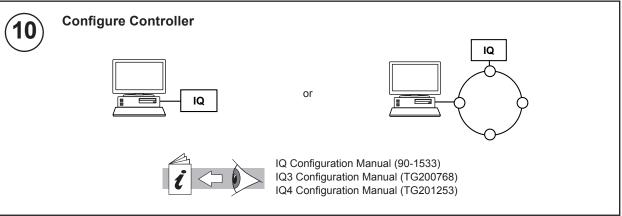
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Views shows connector detail and housing

section typical for all uses of the CO2T/D

3 INSTALLATION (continued)







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).

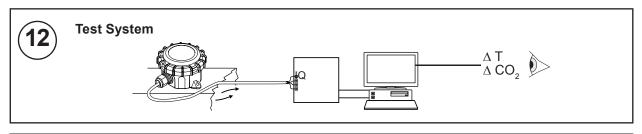
CO₂ concentration voltage output 0 to 10 V for 0 to 2000 ppm

Un	ppm	
Y	Input type	0 (volts)
E	Exponent	4
U	Upper	2000
L	Lower	0
Р	Points	2
x	lx	Ox
1	0	0
2	10	2000

Temperature thermistor recommended range: 0 to 40 $^\circ\text{C}$ (32 to 104 $^\circ\text{F})$

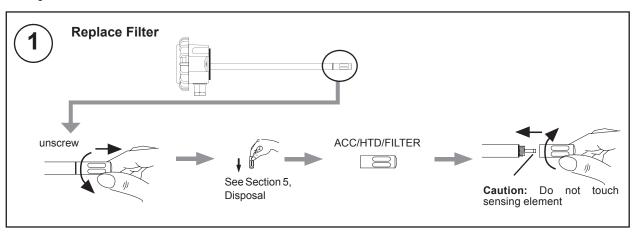
Ur	nits	°C	°F
Y	Y Input type 1 (thermistor volts)		stor volts)
E	Exponent	3	
U	Upper	50	122
L	Lower	-5	23
Р	Points	6	
х	lx	Ox (°C)	Ox (°F)
1	2.641	50	122
2	3.47	40	104
3	4.46	30	86
4	6.663	10	50
5	7.668	0	32
6	8.102	-5	23

3 INSTALLATION (continued)



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.



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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