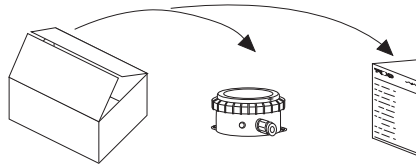


Thermistor Outside Temperature Sensor

Important: Retain these instructions



UNPACKING



TB/TO Installation
Instructions TG200725

Installation

1 Dimensions

57 mm (2.24")

97 mm (3.82")

105 mm (4.13")

domed brass probe

2 Requirements

a

b

c

d

e

f

g

ambient limits
-40 °C → +50 °C
(-40 °F) → (+122 °F) ✓

measurement range
-30 °C → +50 °C
(-22 °F) → (+122 °F)

0 %RH → 95 %RH ✓
Protection :IP67

3 Mount on Wall

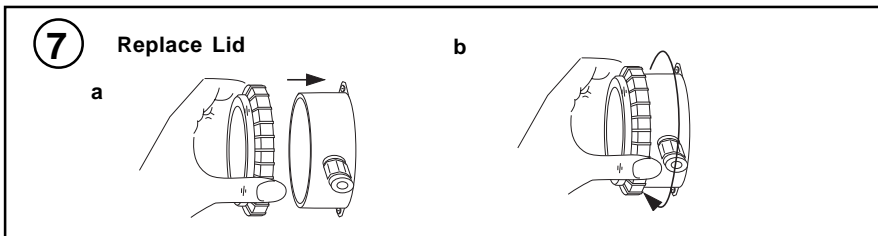
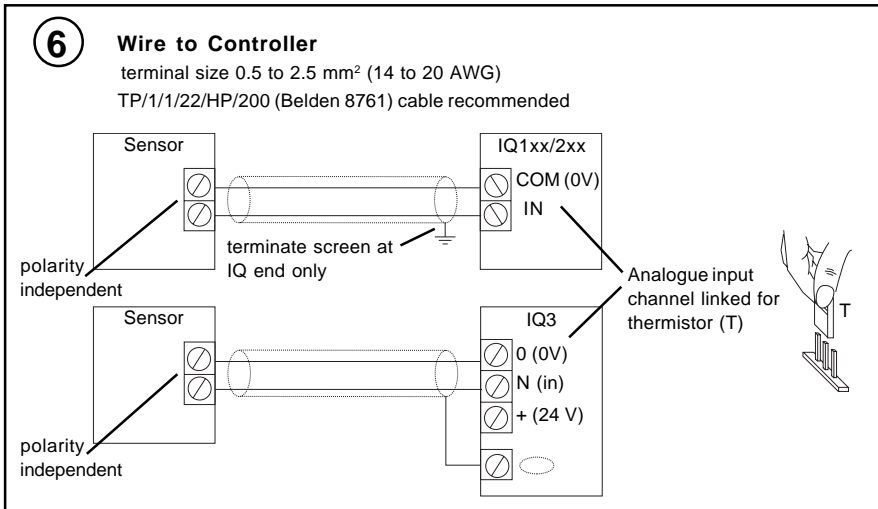
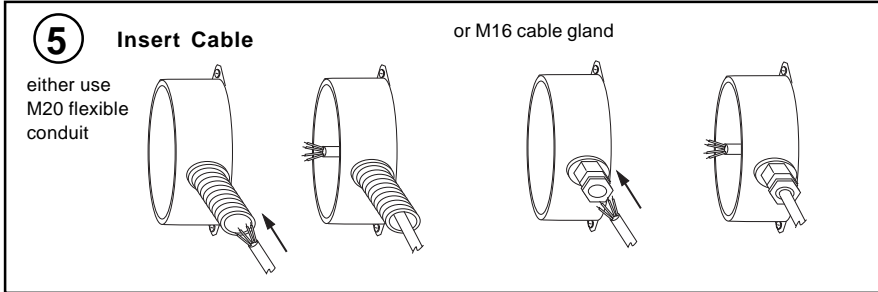
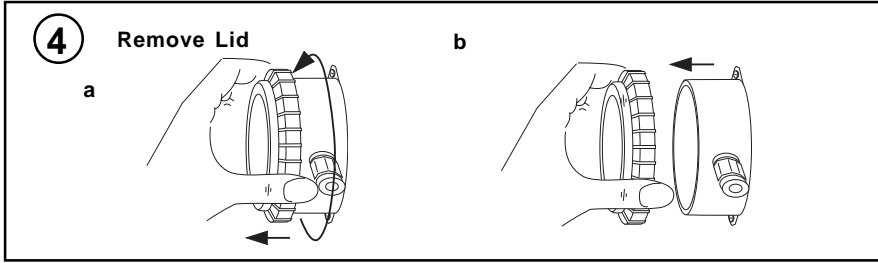
a drill 2 pilot holes

85 mm (3.35")

b tighten screws

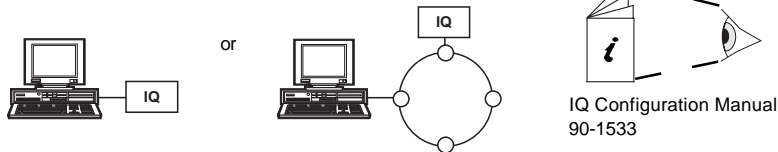
2 off No 6 (M3.5) screws

Installation (continued)



Installation (continued)

8 Configure IQ



9 Set up IQ Sensor Type

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, or IQ3 series controllers, the following SET Unique Sensor Reference should be used:

Thermistor: **Thermistor TBTO (°C)**
Thermistor TBTO F (°F)

Alternatively set scaling mode to 5 (characterise), and enter scaling manually as defined in the appropriate table below.

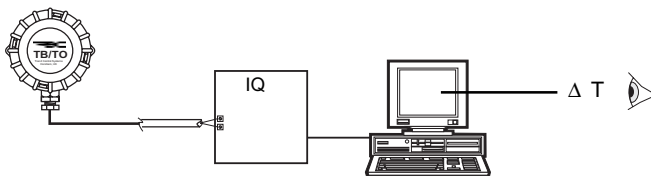
For all other IQ controllers see Sensor Scaling Reference Card TB100521A.

Thermistor (-30 °C to +50 °C, -22 °F to +122 °F) or **Thermistor (-10 °C to +40 °C, 14 °F to +104 °F)**


Units:		°C	°F
Y	Input type	1 (therm V)	
E	Exponent	3	
U	Upper	55	131
L	Lower	-35	-31
P	Points	11	
x	I_x	O_x	
1	2.641	50	122
2	3.470	40	104
3	4.460	30	86
4	6.663	10	50
5	7.668	0	32
6	8.102	-5	23
7	8.482	-10	14
8	8.807	-15	5
9	9.078	-20	-4
10	9.299	-25	-13
11	9.476	-30	-22

Units:		°C	°F
Y	Input type	1 (therm V)	
E	Exponent	3	
U	Upper	45	113
L	Lower	-15	-5
P	Points	6	
x	I_x	O_x	
1	3.470	40	104
2	4.460	30	86
3	6.663	10	50
4	7.668	0	32
5	8.102	-5	23
6	8.482	-10	14

10 Test System



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.

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Ecublens, Route du Bois 37, Switzerland by its Authorized Representative, Trend Control Systems Limited.

Trend Control Systems Limited reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions or changes.

Trend Control Systems Limited

P.O. Box 34, Horsham, West Sussex, RH12 2YF, UK. Tel: +44 (0)1403 21888 Fax: +44 (0)1403 241608 www.trend-controls.com

Trend Control Systems USA

6670 185th Avenue NE, Redmond, Washington 98052, USA. Tel: (425)897-3900, Fax: (425)869-8445 www.trend-controls.com