Installation Instructions

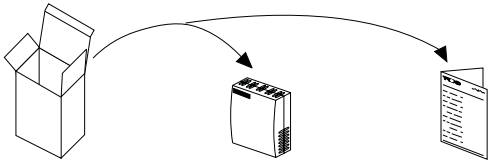
HT/S

Space Humidity and Temperature Sensor

Important: Retain these instructions

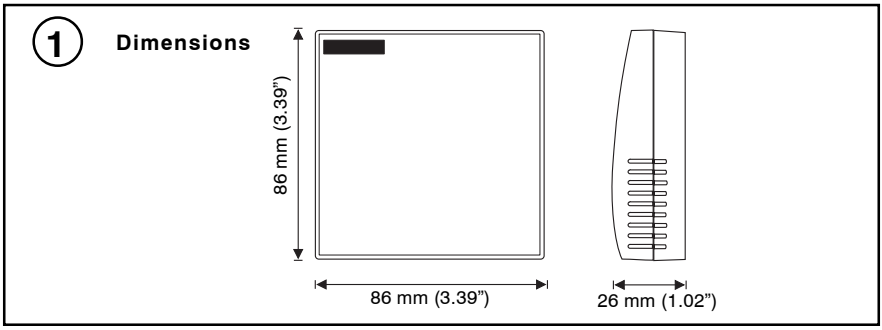
Contents

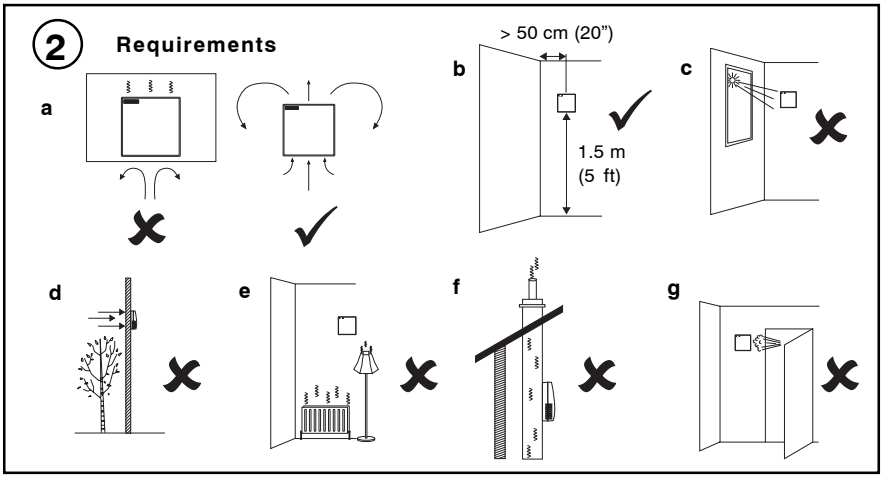
1 Unpacking



HT/S Installation Instructions TG200990

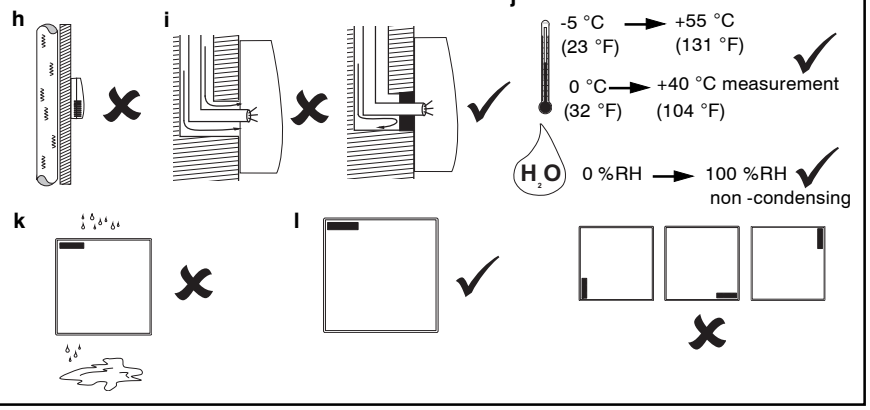
2 Installation



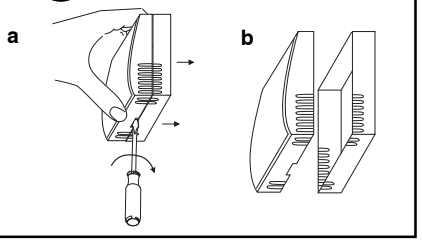


2 Installation (continued)

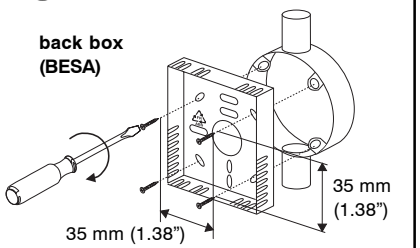
2 Requirements (continued)

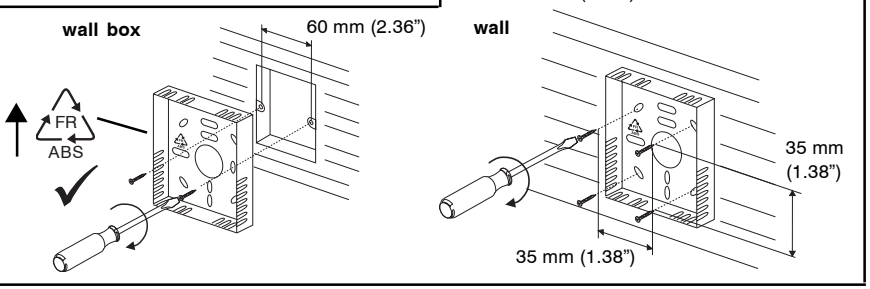


3 Remove backplate



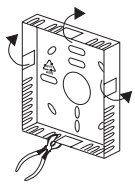
4 Mount backplate



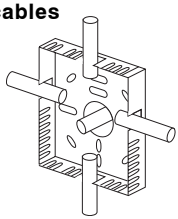


5 Remove cutout(s)

as required



6 Route cables

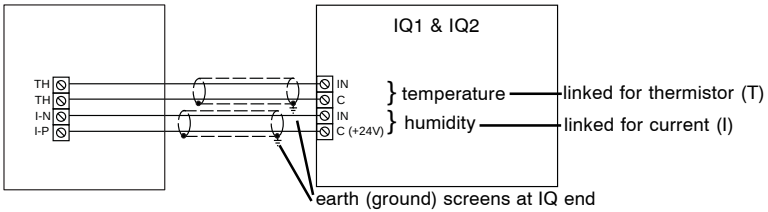


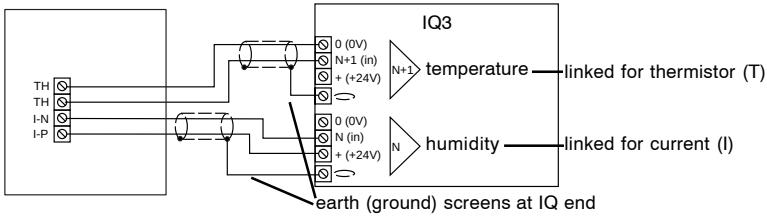
2 Installation (continued)

7 Wire to Controller

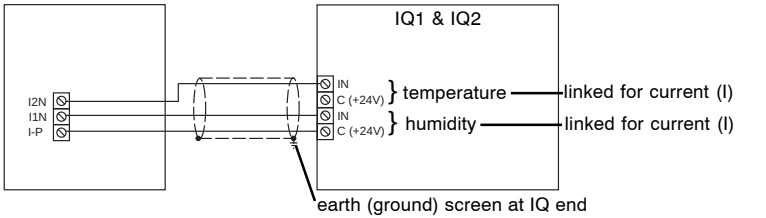
HT/S

2 analogue input channels

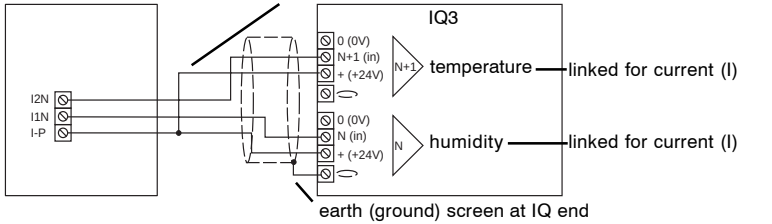




HT/S/2%



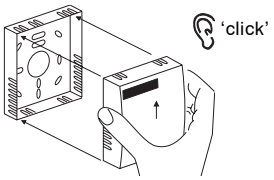
*Note that when connecting to IQ3, in order to provide sufficient supply current to the sensor, the sensor I-P terminal must be connected to **both** channels' 24 V terminals.*



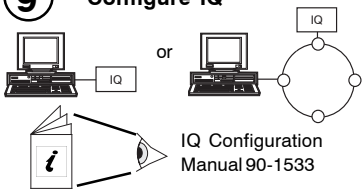
Note that in order to maintain the HT/S/2% temperature sensor accuracy, the temperature sensor should only be used if the humidity sensor is also used.

8 Assemble unit

backplate



9 Configure IQ



2 Installation (continued)

10 Set up IQ Sensor types

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

Humidity (HT/S, HT/S/2%): **Humidity I**
Temperature (HT/S): **Thermistor HTST DT** (°C)
Thermistor HTST DT F (°F)
Temperature (HT/S/2%): **PRT I 0+40** (°C)
PRT I +32+104 F (°F)

Alternatively set scaling mode to 5 (characterise), and enter scaling manually as defined in the appropriate tables below. Note that for IQ3, scaling mode and exponent do not need to be set up. For all other IQ controllers see Sensor Scaling Reference Card TB100521A.

Temperature
HT/S (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

Temperature
HT/S/2%
(0 to +40 °C, 32 to 104 °F)

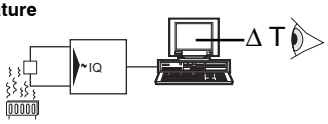
Units		°C	°F
Y	Input type	2 (current)	
*E	Exponent	3	
U	Upper	40	104
L	Lower	0	32
P	Points	2	
x	Ix	Ox	
1	4	0	32
2	20	40	104

Humidity
HT/S and HT/S/2%
(0 to 100 %RH)

Y	Input type	2 (curr mA)
E	Exponent	3
U	Upper	100
L	Lower	0
P	Points	2
x	Ix	Ox
1	4	0
2	20	100

11 Test system

Temperature



Humidity

3 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.

4 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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