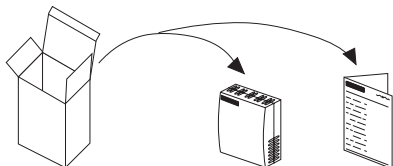


Important: Retain these instructions



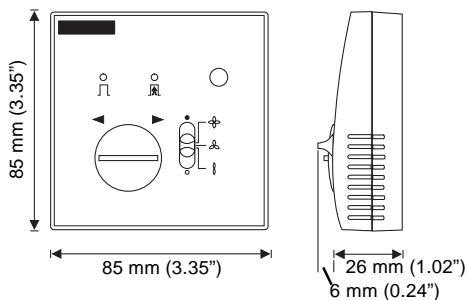
UNPACKING



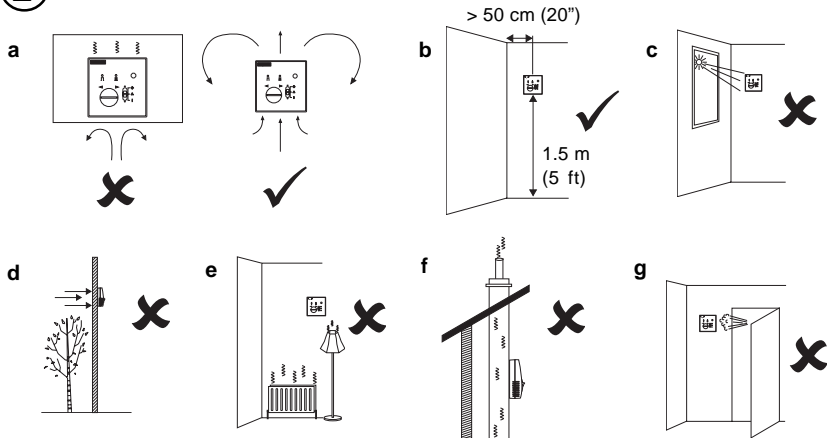
TB/TS/KO, /OS, /KOS, /KOF, /KOSF
Installation Instructions TG200606

INSTALLATION

1 Dimensions

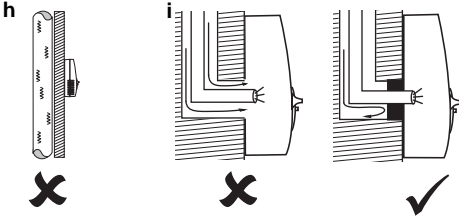


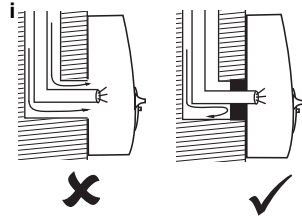
2 Requirements

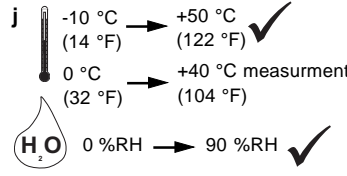


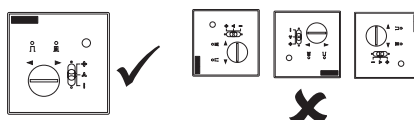
INSTALLATION (continued)

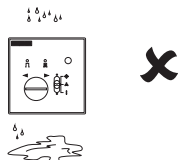
2 Requirements (continued)

h 

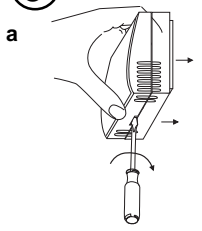
i 

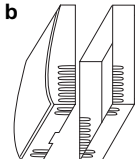
j 

k 

l 

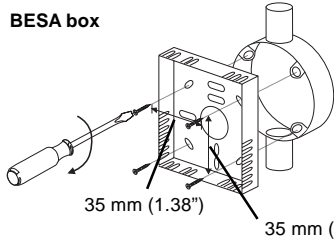
3 Remove backplate

a 

b 

4 Mount backplate

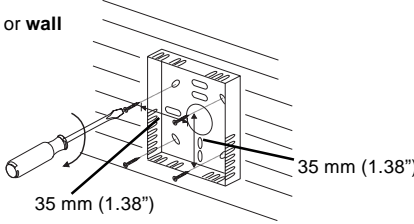
BESA box



35 mm (1.38")

35 mm (1.38")

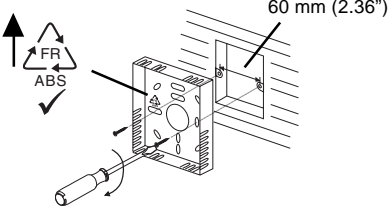
or wall



35 mm (1.38")

35 mm (1.38")

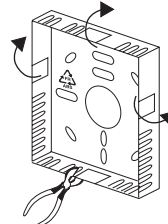
wall box



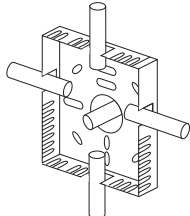
60 mm (2.36")

FR
ABS

5 Remove Cutout(s) as required



6 Route cables

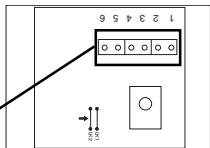


INSTALLATION (continued)

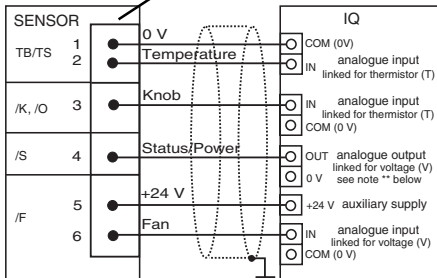
7

Wire to controller

Terminal size 0.5 to 2.5 mm²
(14 to 20 AWG)



Note that these options (TB/TS/KO,/OS,/KOF,/KOSF) cannot be used with IQLs; use options TB/TS, TB/TS/K, /KE, or /KEF with IQLs.



OPTION	CONNECT TERMINALS
TB/TS	1, 2
TB/TS/K	1, 2, 3
TB/TS/KO***	1, 2, 3, 4*
TB/TS/OS***	1, 2, 3**, 4
TB/TS/KOS***	1, 2, 3, 4
TB/TS/KOF***	1, 2, 3, 4*, 5, 6
TB/TS/KOSF***	1, 2, 3, 4, 5, 6

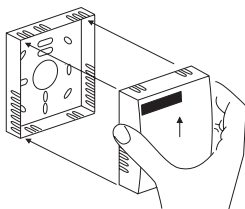
* For /KO or /KOF connect Status/Power to 10 Vdc or 24 Vdc; if using /KOS, /OS, /KOSF as /KO or /KOF, the Status/Power input should be powered from 10 Vdc e.g. via dummy analogue output.

** For /OS option also connect knob.

*** Note that /KO, /OS, /KOS, /KOF, /KOSF cannot be used by IQ211 (although they can be used by IQ212)

8

Assemble unit



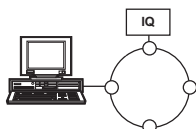
'click'

9

Set up special IQ strategies



or



IQ Configuration Manual
90-1533
TB/TS Data Sheet TA200603

For /KO, /OS, /KOS, /KOF, /KOSF special override and status strategies.

For /KOF, /KOSF special strategy for fan speed input on IQs

Legend	Switch position	Voltage	
		Nominal	Recommended
○	Fan Off	0V	
⏏	Fan low speed	2.8V	>2 V
⏏	Fan medium speed	5.6V	>4.5 V
⏏	Fan high speed	8.5V	>7 V
●	Automatic	9.7V	>9 V

Note that the IQ recommended limits may need to be changed to suit mains supply voltage and auxiliary supply loading, or a 24 Vdc regulated supply can be used.

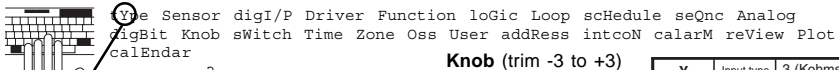
INSTALLATION (continued)

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 Part numbers should be used:

- Knob: **Knob TB 3deg trim** (guaranteed ±3 trim)
- alternatively: **Knob T 3deg trim** (±3 ±20% linear)
- Thermistor: **Thermistor TBTS (°C)**
- Thermistor TBTS F (°F)**
- Fan control: **Fan Control V**

If not using SET, use the following tables for all IQ2 series controllers of firmware version 2.1 or greater or IQ3 controllers; for all other IQ controllers see Sensor Scaling Reference Card TB100521A.



Thermistor (0 to +40 °C)

Yn<CR>
TYPE n
:
=?
S=5 (characterise)
Y=, E=, U=, L=, P=,
I1 to I6=, O1 to O6=
X <CR>

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

Knob (trim -3 to +3)

Yn<CR>
TYPE n
:
=?
S=5 (characterise)
Y=, E=, U=, L=, P=,
I1 to I4=, O1 to O4=
X <CR>

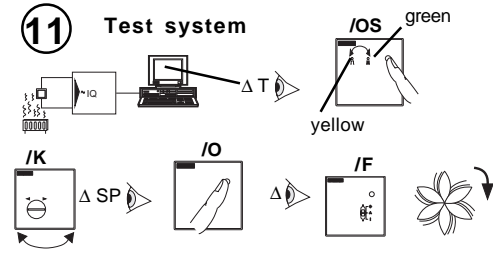
Y	Input type	3 (Kohms)
E	Exponent	1
U	Upper	3.2
L	Lower	-3.2
P	Points	4
x	Ix	Ox
1	.95	-3.1
2	1.05	-3
3	8.95	+3
4	13.05	+3.1

Fan Control (0 to 9.7)

Yn<CR>
TYPE n
:
=?
S=5 (characterise)
Y=, E=, U=, L=, P=,
I1 to I2=, O1 to O2=
X <CR>

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

11 Test system



DISPOSAL

WEEE Directive :

At the end of their useful life the packaging and product should be disposed of via 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.

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