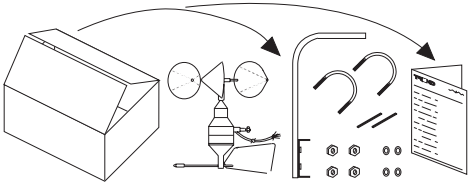
Installation Instructions

WS/S, /SD
Wind Speed and Direction Sensor

Important: Retain these instructions

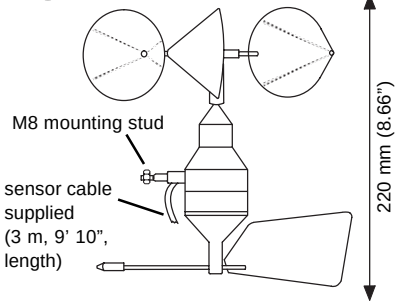
UNPACKING

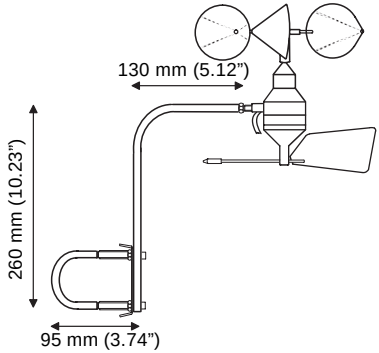


WS/S, /SD
Installation
Instructions
TG102613

Installation

1 Dimensions



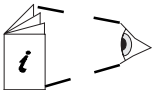


2 Requirements

a -20 °C → +70 °C (-4 °F) (158 °F)

b Location

Choose location where wind speed is representative of area to be measured



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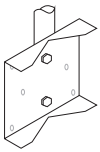
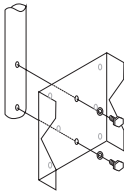
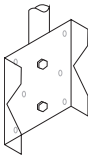
3 Change bracket fixing
(if required for horizontal rail)

Elbows supplied configured for vertical mast



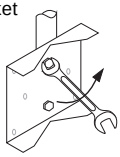
(ii) fix bracket for horizontal rail

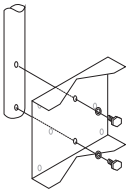




if required to use on horizontal rail

(i) remove bracket

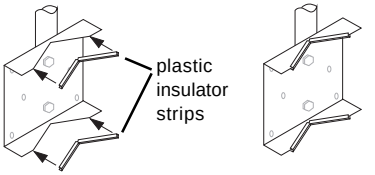




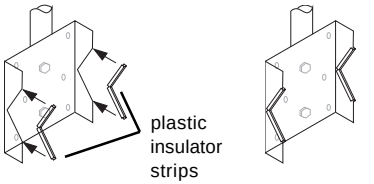
Installation (continued)

4 Fit plastic insulator strips

(i) vertical mast

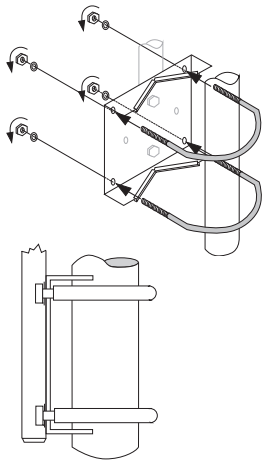


(ii) horizontal rail

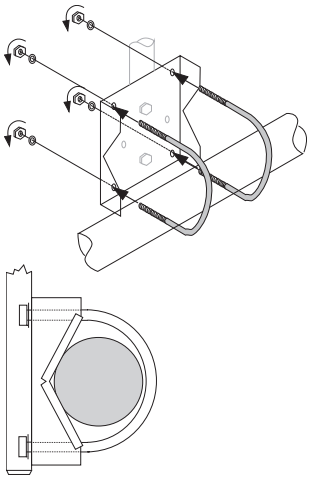


5 Fit elbow to mast or rail

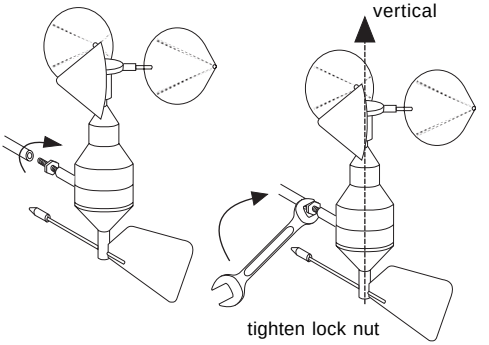
vertical rail



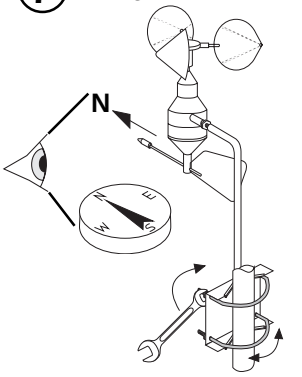
horizontal rail



6 Fit sensor to elbow

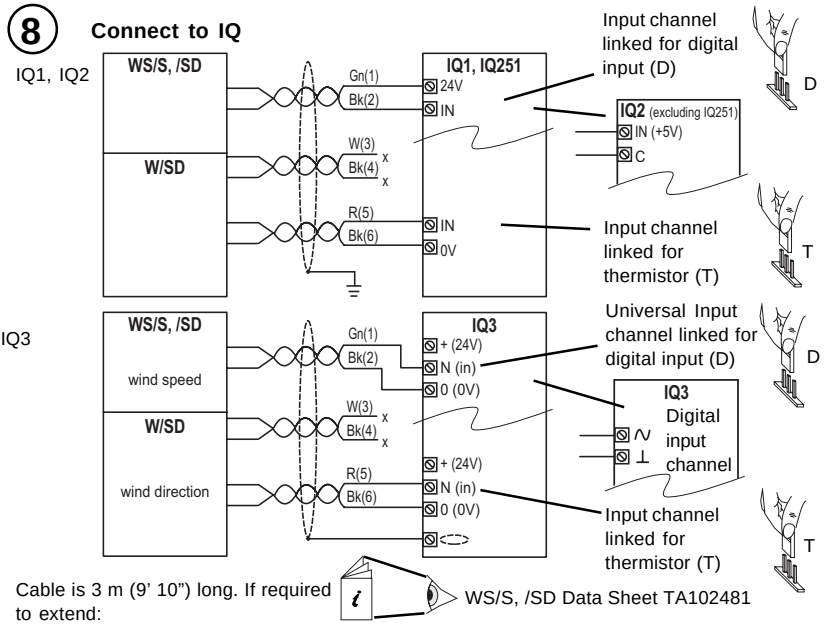


7 Align sensor



Installation (continued)

8 Connect to IQ



Cable is 3 m (9' 10") long. If required to extend:

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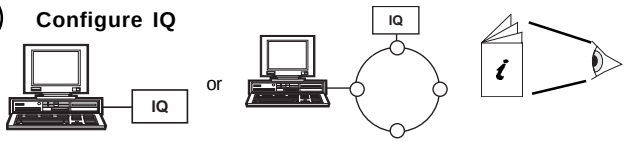
9 Configure IQ



IQ Configuration Manual 90-1533

10 Set up IQ Sensor Type (for wind speed sensor input)

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:

Wind Direction Therm

Alternatively used sensor scaling mode 5, characterise, and enter scaling manually as defined in the table below:

For all other IQ controllers see WS/S, /SD Data Sheet TA102481.

```
tYpe Sensor digI/P Driver Function loGic Loop scHedule seQnc Analog
digBit Knob sWitch Time Zone Oss User addRess intcoN calarM reView Plot
calEndar
        = ?
```

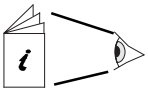
Yn<CR>
TYPE n
:=?
S=5 (characterise)
Y= , E= , U= , L= , P=
I1 to I3, O1 to O3=
X <CR>

Y	input type	3 (thermistor kohms)
E	Exponent	4
U	Upper	380
L	Lower	-1
P	Points	3
x	Ix	Ox
1	0	0
2	0.99	357
3	100	359

Installation (continued)

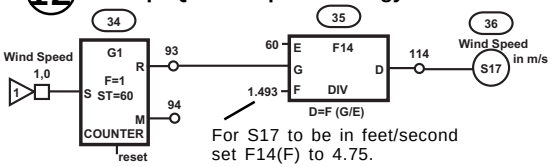
11 Set up IQ Wind Direction Strategy

For IQ1xx, IQ2xx (<v5.1) only



see WS/S, /SD Data Sheet TA102481

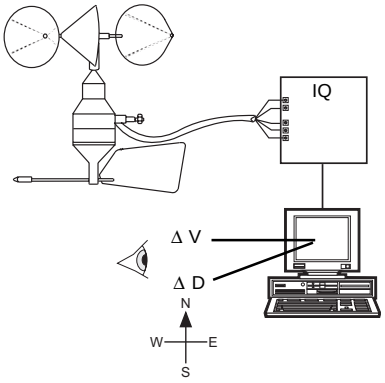
12 Set up IQ Wind Speed Strategy



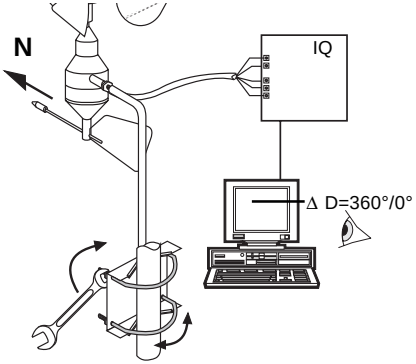
For S17 to be in feet/second set F14(F) to 4.75.

The diagram shows digital input 1 being used; the strategy should be changed to match the actual input channel used.

13 Test System



14 Check Sensor Alignment if greater accuracy required



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.

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