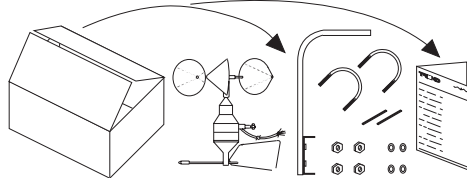


# Wind Speed and Direction Sensor

**Important: Retain these instructions**



## UNPACKING



WS/S, /SD  
Installation  
Instructions  
TG102613

## Installation

**1 Dimensions**

M8 mounting stud

sensor cable supplied (3 m, 9' 10", length)

220 mm (8.66")

130 mm (5.12")

260 mm (10.23")

95 mm (3.74")

**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

WS/S, /SD Data Sheet TA102481

**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

The diagrams illustrate the installation of plastic insulator strips. On the left, a vertical mast is shown with two strips being attached to its sides. On the right, a horizontal rail is shown with two strips being attached to its top and bottom surfaces. Labels 'plastic insulator strips' with arrows point to the respective strips in both views.

**5** Fit elbow to mast or rail

vertical rail      horizontal rail

The diagrams show an elbow being fitted onto a rail. On the left, a vertical rail is shown with an elbow being slid onto it. On the right, a horizontal rail is shown with an elbow being slid onto it. Arrows and circled numbers 1, 2, and 3 indicate the sequence of steps for fitting the elbow. Below each main diagram is a smaller, simplified diagram showing the rail and elbow assembly.

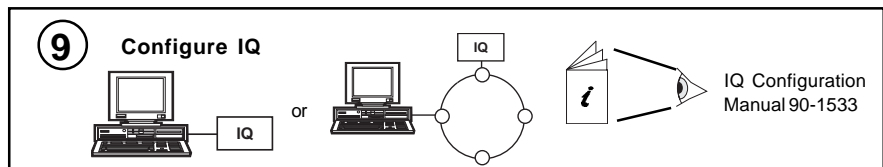
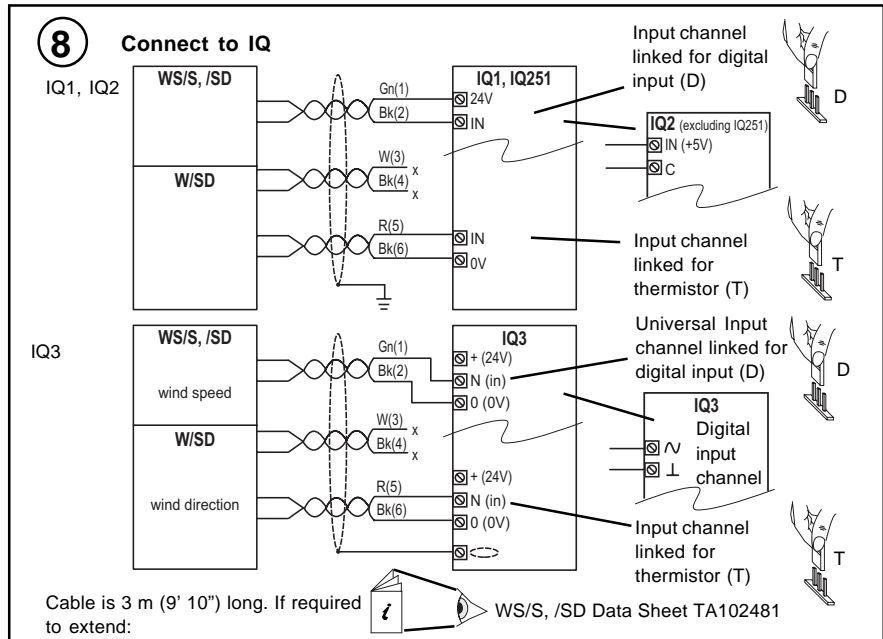
**6** Fit sensor to elbow

The diagram shows a sensor being attached to the elbow. A screwdriver is used to insert a screw into the sensor's base. A wrench is used to tighten a lock nut on the elbow. A vertical arrow points upwards from the sensor, labeled 'vertical'. The text 'tighten lock nut' is written below the wrench.

**7** Align sensor

The diagram shows the sensor being aligned. A compass is placed on a surface, with an arrow pointing towards the sensor. The sensor is mounted on a vertical rail that can rotate. A wrench is used to adjust the rotation of the rail. An eye icon indicates the direction of alignment.

Installation (continued)



**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.

```

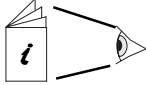
Type Sensor digI/P Driver Function loGic Loop sChedule seQnc Analog
digBit Knob sWitch Time Zone Oss User addRes intcoN calarM reView Plot
caEndar
= ?
Yn<CR>
TYPE n
:=?
S=5(characterise)
Y=, E=, U=, L=, P=
I1 to I3, O1 to O3=
X <CR>
    
```

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

Installation (continued)

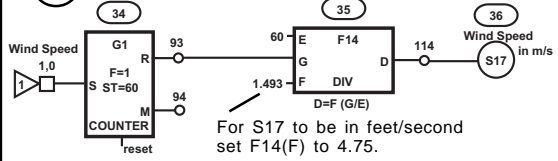
**11 Set up IQ Wind Direction Strategy**

For IQ1xx, IQ2xx (<v5.1) only



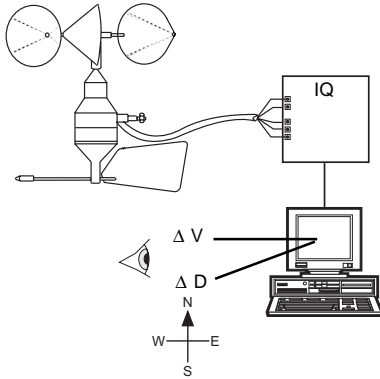
see WS/S, /SD Data Sheet  
TA102481

**12 Set up IQ Wind Speed Strategy**

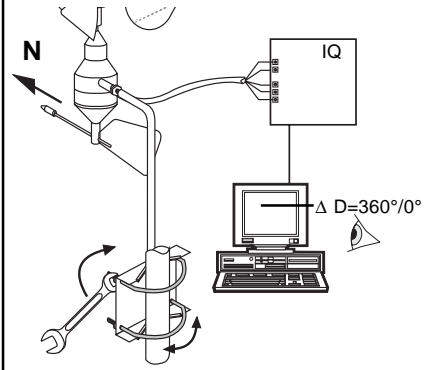


The diagram shows digital input 1 being used; the strategy should be changed to match the actual input channel used.

**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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