# Wind / Temperature Sensor wiring diagram
## Part number: 480 1000 045



Wind Sensor

POINT NORTH

Temperature sensor
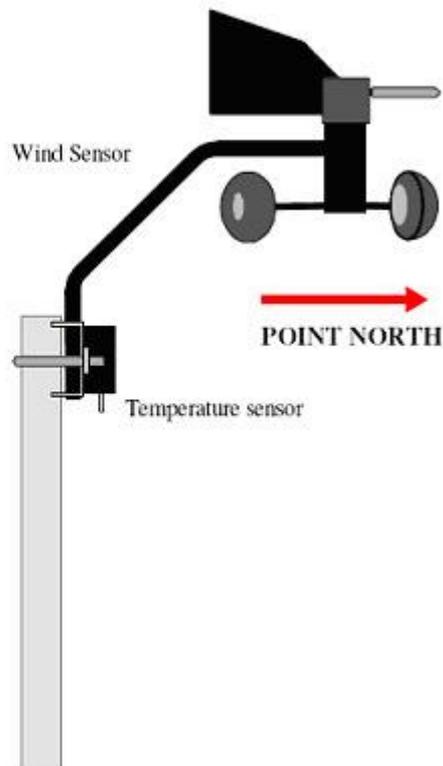
Mast mount 25-50mm dia.
or Instromet mast kit
Long 480 1000 096
Short 480 1000 103
Tile/slate clamp 480 1000 097

To Wind Sensor
(100m max)

12-core (5m Max.)

To Weather Station Display
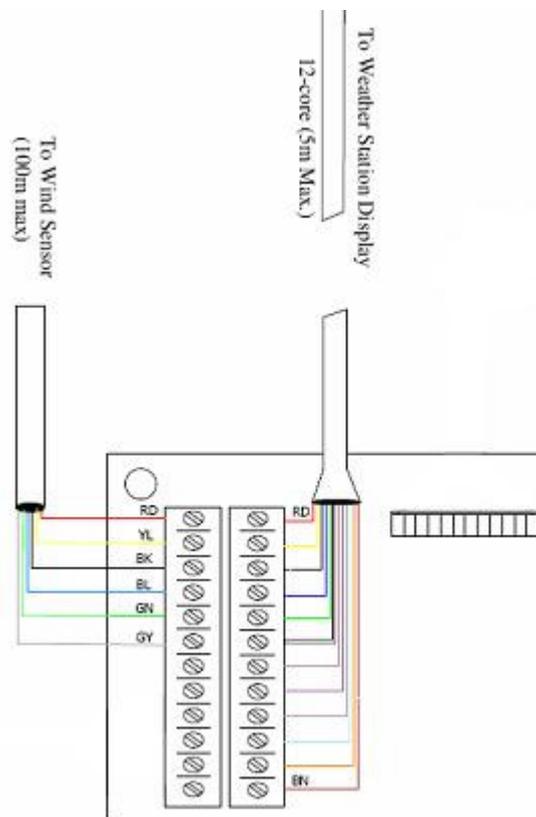
Red = +5V supply
Yellow = Wind Direction input
Black = Ground
Blue = Wind Speed input
Green = Temp input
White = Temp input

# Installation Instruction

**Sensor wiring**

The six core cable should be connected to the individual sensor via the terminal block on the sensor bracket. This can be accessed by removing the black cover, where a wiring colour identification label will be found.

**Roof Top Wind/Temperature Sensor**

This unit should be mounted on a mast of 25-50mm (1-2inches) in diameter, as high and as far away as possible from chimneys, roof peaks, buildings, trees and transmitter aerials which may cause wind turbulence or interference. Where possible the roof top wind sensor should be mounted at least 2 metres above roof peaks and be secured in position with the arm pointing accurately to the NORTH with the compass provided.

The cable from the roof top wind sensor should be run down to the junction box, making sure it is properly secured. Please note! This cable should not be run in close proximity to power or transmitter cables. If it is necessary to shorten the cable, please do this when connecting the cable to the display unit.

**WARNING:** Under no circumstances should the wind sensor junction box cover or the terminal block inside be sealed in any way as it is designed to breathe.

# Troubleshooting Guide.

You've installed your Wind sensor and find that despite careful attention to detail, it does not work as expected. The
following notes may assist in getting your Wind sensor working.

**Nothing appears to work.**

Check that the power supply is turned on at the wall socket. Check power cable correctly wired to the correct terminals in the
Junction Box. If the lamps inside the unit are illuminated then the power to the instrument is correctly wired and working.

**Wind Direction wrong**

If Wind Direction gives the wrong reading, check that the wind sensor has been mounted to point North. If the pointer is permanently displaying a Northerly or North North East wind direction then the wind sensor is not connected to the instrument or is incorrectly wired. Note that if the wind sensor is incorrectly wired then neither wind speed nor direction will work.

**Wind Speed not working**

Check anemometer cups are turning freely and if so wiring is correct (particularly the *blue* wire from the Wind Sensor) and the cable not damaged.

**Wind Sensor voltages**

| | |
|---|---|
| Supply voltage | Black – Red = 5V DC |
| Wind Speed | Black – Blue = 2.5V AC (with cups rotating) |
| Wind Direction | Black – Yellow = North = 0V or 4.5V DC |
| | East = 1.5V DC |
| | South = 2.5V DC |
| | West = 3.5V DC |

iSweek  www.isweek.com
Add: 16/F, Bldg.  #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China
Tel: + 86-755-83289036        Fax: + 86-755-83289052        E-mail: sales@isweek.com