

Wind Speed + Direction Masthead Sensor MU7911

DESCRIPTION

The MU7911 is a meteorological transducer utilising ball bearings for low friction and long life. The output from the wind speed transducer is a frequency (27.6Hz= 100km/Hr), which can be interfaced with any standard APCS alarm, transmitter or display with frequency input. The wind direction transducer output is a convenient 0 - 20kΩ resistive signal corresponding to 0 - 352° of rotation. This resistive signal can be interfaced with any standard APCS alarm, transmitter or display. The mast unit comes complete with 12.2m of cable, and fittings for mast mounting onto a 32mm diameter mast.

> Vane $0 - 360^{\circ}$

0 - 352°

5 km/hr

900kΩ

+/-1%

Contact

bounce.

3 km/hr

 $0 - 20k\Omega + - 4k\Omega$

3 cup anemometer

notes about offset.

2% above 16km/hr

5 to 25Vdc, 8V recommended.

Solid state magnetic sensor.

variable pules width plus some contact

Constant 4mS pulse width, see test circuit for

0 - 27.6Hz (0 - 100km/hr) [1m/s = 3.6 km/hr]

General Specifications

Wind Direction

Sensing element: Mechanical range: Electrical range: Output (0 - 352°): Threshold: Change-over phase: Accuracy:

Wind Speed

Sensing element: Sensor supply: Output Version 1:

Version 2:

Calibration: Start up threshold: Accuracy:

General

Temperature range: Maximum speed: Weight: Material Wind vane & cups: Mounting arm: Size:

-10...+60°C 250km/hr 0.500 kg UV stabilised plastic Aluminium 250 x 610 x 305mm







Version 2 Test Circuit



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