

Wind Speed + Direction Masthead Sensor MU7911

DESCRIPTION

The MU7911 is a high quality, low cost meteorological transducer utilising ball bearings for low friction and long life. The unit can be easily mounted to any mast via the bracket provided. 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 - 20k Ω resistive signal corresponding to 0 - 352 $^\circ$ of rotation. This resistive signal can be interfaced with any standard APCS alarm, transmitter or display. The mast unit comes complete with 12.2m (40') of cable, and fittings for mast mounting onto a 32mm diameter mast. APCS can manufacture complete weather stations customised to your specific requirements.



General Specifications

Wind Direction

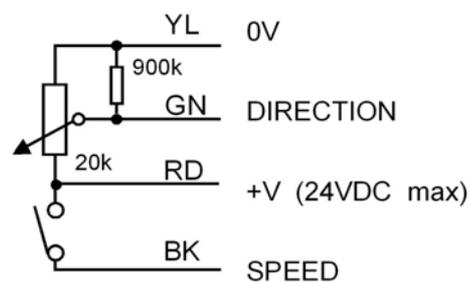
Sensing element:	Vane
Mechanical range:	0 - 360 $^\circ$
Electrical range:	0 - 352 $^\circ$
Output (0 - 352 $^\circ$):	0 - 20k Ω +/- 4k Ω
Threshold:	5 km/hr
Change-over phase:	900k Ω
Accuracy:	+/-1%

Wind Speed

Sensing element:	3 cup anemometer
Output:	Contact
Calibration:	0 - 27.6Hz (0 - 100km/hr) [1m/s = 3.6 km/hr]
Start up threshold:	3 km/hr
Accuracy:	2% above 16km/hr

General

Temperature range:	-10...+60 $^\circ$ C
Maximum speed:	250km/hr
Weight:	0.500 kg
Material Wind vane & cups:	UV stabilised plastic
Mounting arm:	Aluminium
Size:	250 x 610 x 305mm



NOTE:

The contact is internally connected to direction potentiometer, use at least one isolated transmitter to prevent earth loops.