Model: WindSon1

Description

This is a low-cost anemometer, which utilises proven ultrasonic technology to provide wind speed and direction data via one serial or two analogue outputs. To confirm correct operation, outputs are transmitted together with an instrument status code. With a robust, corrosion-free polycarbonate housing, this small, lightweight wind sensor is recommended for use in harsh environmental conditions and is particularly suited to marine & offshore (ships, data buoys) and land based installations. The WindSon has no moving parts, offering maintenance-free operation in a wide range of applications.

Features

- Wind Speed & Direction Sensor
- 0-55 m/s Wind Speed
- 0-360º Wind Direction
- NMEA output
- Low Power consumption
- Fast start-up
- Solid-state – maintenance-free
- Corrosion Free

Applications

- Road & rail tunnels
- Marine vessels
- Small airports & helipads
- Building controls
- Data buoys
- Remote weather monitoring stations
- Environmental field sites
- Ports & harbours
- Mobile weather monitoring vehicles
- Coastal weather monitoring stations

Environmental

Protection Class	IP65
Operating Temperature	-35°C to +70°C
Storage Temperature	-40°C to +80°C
Operating Humidity	< 5% to 100% RH

Outputs

Option 1	RS232
Option 2	RS485
Option 3	4-20mA

Wind Speed

Range	0 - 55 m/s
Accuracy	± 0.3 m/s
Resolution	0. 1 m/s
Response Time	0.25 seconds
Threshold	0.3 m/s

Measurement

Ultrasonic Output Rate	0.25, 0.5, 1, 2 or 4 Hz
Parameters	Wind Speed & Direction
Units of Measure	m/s or knots

Wind Direction

Range	0 - 360° (No dead band)
Accuracy	±3° @1 m/s
Resolution	0.1°
Response Threshold	0.30 m/s

Power Requirements

Anemometer	12-30 VDC
	Current < 10mA@ 12 VDC

Virtual Hydromet

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