



The WindSonic is a low-cost anemometer, which utilises 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 WindSonic has no moving parts, offering maintenance-free operation in a wide range of applications.

CHARACTERISTICS & INSTALLATIONS

- Low start speed
- Corrosion free, uv stable material
- No calibration required
- Robust construction
- True 0-359° operation (no dead band)
- Wind speed & direction from a single unit

WindSonic is widely used in: HVAC, Remote weather monitoring stations, Building controls, Data buoys, Marine vessels, Small airports & helipads, Road & rail tunnels, Environmental field sites, Ports & harbours, Mobile weather monitoring vehicles & Coastal weather monitoring stations.

TECHNICAL CHARACTERISTICS

Ultrasonic Output Rate	0.25, 0.5, 1, 2 or 4Hz
Parameters	Wind Speed & Direction or U and V (vectors)
Units of Measure	m/s, knots, mph, kph, ft/min
Wind speed Range	0 – 60 m/s (116 knots)
Wind speed Accuracy	± 2%
Wind speed Resolution	0.01 m/s (0.02 knots)
Wind speed response time	0.25 seconds
Wind direction Range	0 to 359° – no dead band
Wind direction Accuracy	± 2 °
Wind direction Resolution	1°
Wind direction response time	0.25 seconds
Anemometer status	Message supplied as part of standard output
Power Anemometer	9-30Vdc @ 14.5mA typical. Op.4 Start up time <1 second
Output Option 1	RS232
Output Option 2	RS232 + RS422 + RS485 + NMEA*

Output Option 3	RS232 + RS422 + RS485 + NMEA* + 0-5V or 4-20mA
Output Option 4	SDI-12
Protection Grade	IP66
Operating Temperature	-35°C to +70°C
Storage Temperature	-40°C to +80°C
Operating Humidity	<5% to 100% RH
EMC	EN 61326 : 1998
MTBF	15 years
External Construction	LURAN S KR 2861/1C ASA/PC
Size (mm)	142 x 163
Weight (kg)	0.5
Optional factory calibration	According to national standards

* NMEA 0183