

WINDSONIC WIND SPEED & DIRECTION SENSOR



Product Description

The MUNRO WindSonic is a low-cost anemometer, which utilises proven ultrasonic technology to provide wind speed & direction data via one serial or two analogue outputs. To confirm correct operation, outputs are transmitted together with an instrument status code.

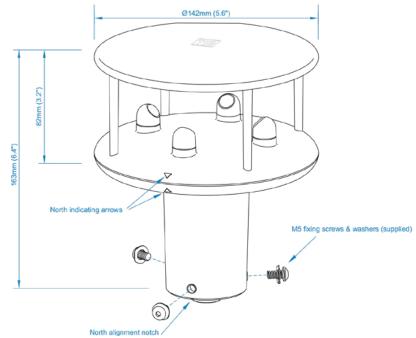
With a robust, corrosion-free polycarbonate housing, this small, lightweight wind sensor is recommended for use in harsh environmental conditions and is particularly suited to marine & offshore (ships, data buoys) & land based installations. The WindSonic has no moving parts, offering maintenance-free operation in a wide range of applications.

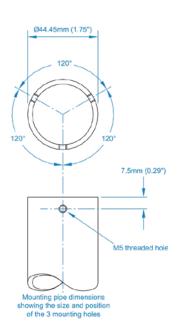
Features

- Wind Speed & Direction Sensor.
- 0-60m/s (116 knots) Wind Speed.
- 0-360º Wind Direction.
- NMEA output.
- Low Power consumption.
- Fast Start-up.
- Solid-state maintenance-free.
- Corrosion Free.

Applications

- 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 Specifications

WINDSONIC

WIND SPEED		
Range	0 - 60 m/s (116 knots)	
Accuracy	±2% @12 m/s	
Resolution	0.01 m/s (0.02 knots)	
Response Time	0.25 seconds	
Threshold	0.01 m/s	
	DIRECTION	
Range	0 - 360° (No dead band)	
Accuracy	±2° @12 m/s	
Resolution	1°	
Response Time	0.25 seconds	
MEASUREMENT		
Ultrasonic Output Rate	0.25, 0.5, 1, 2 or 4 Hz	
Parameters	Wind Speed & Direction or U and V (vectors)	
Units of Measure	m/s, knots, mph, kph, ft/min	
OUTPUTS		
Option 1	RS232	
Option 2	RS232 + RS422 + RS485*** + NMEA*	
Option 3	RS232 + RS422 + RS485*** + NMEA* 0-5 V or, 0-20mA or 4-20mA	
Option 4	SDI-12 (refer to manual or separate data-sheet for technical spec.)	
Baud Rate	2400 to 38400	
Anemometer Status	Supplied as part of standard message	
POWER REQUIREMENT		
Anemometer	5-30 VDC Option 1 & 2 7-30 VDC Option 3 9-30 VDC Option 4	
Current Drain	Dependent on option selected e.g. < 2mA @ 12V (SDI-12) to 44mA @ 12V (4-20mA) Refer to manual for further advice Start up time < 5 seconds	
MECHANICAL		
External Construction	LURAN S KR 2861/1C ASA/PC	
Size	142mm x 163mm	
Weight	0.5kg	
ENVIRONMENTAL		
Protection Class	IP66	
Operating Temperature	-35°C to +70°C	
Storage Temperature	-40°C to +80°C	
Operating Humidity	< 5% to 100% RH	
Precipitation	300mm/hr	
EMC	EN 61326: 1998	
OPERATIONAL		
MTBF	15 years	
MTBF Warranty		
	15 years	
Warranty	15 years 2 years	
Warranty	15 years 2 years Traceable to National Standards ACCESSORIES Display / Logging**	
Warranty Factory Calibration Wind Software Pipe Mounting (optional)	15 years 2 years Traceable to National Standards ACCESSORIES	
Warranty Factory Calibration Wind Software	15 years 2 years Traceable to National Standards ACCESSORIES Display / Logging**	

www.munroinstruments.com