

Gill WindSonic 75 is a low-cost, high speed anemometer, which utilises Gill's 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.

WindSonic is WMO-compliant for gust measurement.

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. WindSonic anemometers have no moving parts, offering maintenance-free operation in a wide range of applications.

Typical 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

WindSonic key features

- Wind speed & direction sensor
- 0-75 m/s (146 knots) wind speed
- 0-360° wind direction
- WMO-compliant gust wind speed and direction calculated from a rolling average
- NMEA output
- Low power consumption
- Fast start-up
- Solid-state ultrasonic technology - no moving parts
- Corrosion free

Benefits

- High accuracy, low cost wind measurement
- Excellent, well proven reliability
- Low maintenance delivers low cost of ownership
- Models and outputs to suit varied applications



WindSonic ultrasonic anemometers offer high accuracy, low cost wind measurement



WindSonic wind sensors provide excellent reliability combined with low maintenance, for long-term deployment including in remote locations

For pricing or any further information, please contact Omni Instruments Ltd.

WIND SPEED	
Range	0 - 75 m/s (146 knots)
Accuracy	2% RMSE @12 m/s
Resolution	0.01 m/s (0.02 knots)
Response time	0.25 seconds
Starting threshold	0.01 m/s

WIND DIRECTION	
Range	0 - 360° (no dead band)
Accuracy	2° RMSE @12 m/s
Resolution	0.1° Option 1, 2 & 3 (output at 0, 1 or 2 decimal places) 0.1° Option 5
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 measurement	m/s, knots, mph, kph, ft/min
Anemometer status	For unit diagnostics

OUTPUTS	
Option 1 interface	RS232
Option 2 interfaces	RS232, RS422, RS485**
Option 3 interfaces	RS232, RS422, RS485** Analogue 0-5V or 0-20 mA or 4-20 mA
Option 1, 2 & 3 protocols	ASCII, NMEA 0183
Option 5	Modbus RTU, 2-wire RS-485
Baud rate	2400 to 38400

POWER REQUIREMENT	
Anemometer	12-30 VDC Option 1, 2 & 3
	9-30 VDC Option 5
Current drain	Dependent on option selected e.g. up to 44 mA @ 12V (4-20 mA) Refer to manual for further advice
	Start up time < 5 seconds

MECHANICAL	
External construction	LURAN S KR 2861/1C ASA/PC
Size	142 mm x 163 mm
Weight	0.5 kg

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	300 mm/hr

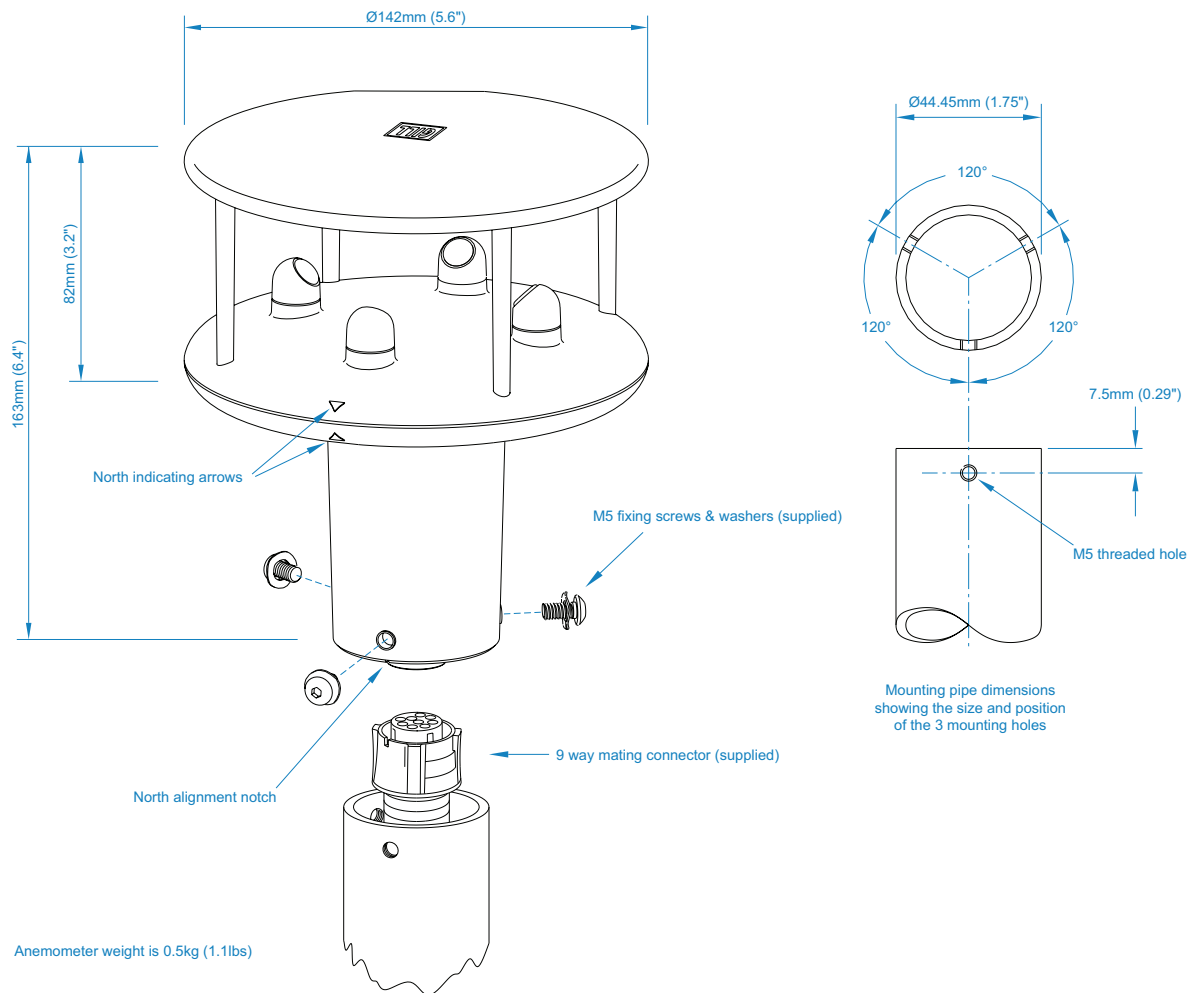
OPERATIONAL	
Warranty	24 months
Factory calibration	Traceable to National Standards

ACCESSORIES	
Pipe mounting (optional)	44.45 mm (1.75 in) diameter
Wind software	Display / logging*
Cables (optional)	Available to match output options
Display (optional)	See Gill Display datasheet

* Download software free from gillinstruments.com

** 2-wire is point-to-point only

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Specifications may be subject to change without prior notice.

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