

FT602 WIND SENSOR

INDUSTRIAL-GRADE PERFORMANCE



UNIQUE TECHNOLOGY

Acoustic Resonance (Acu-Res®) is fundamentally different to other ultrasonic wind sensors on the market, delivering exceptionally high levels of data availability even in challenging conditions. The FT602 measures wind speeds up to 75m/s, with consistent 360° direction accuracy, ensuring professional levels of performance in a compact physical form. Acu-Res® delivers a stronger signal-to-noise ratio than other ultrasonic technologies, making FT wind sensors more resistant to external interference.

OPTIMAL DURABILITY

FT Technologies is the trusted choice for critical applications providing consistent performance with no moving parts to maintain or replace. The FT602 is constructed from an industrial-grade polymer, sealed to IP67 and provides reliable wind data even in heavy rain. With a weight of only 170g and USB power (5V) compatible, the FT602 is ideal for integration into lightweight platforms where size, weight and power (SWaP) optimisation is required.

PEAK PERFORMANCE

The FT602 connects to industry standard autopilots, data loggers, control systems and displays without the need for an external converter. FT Wind Sensors are instant response (10Hz), impact resistant (50g), watertight (IP67) and highly accurate. The FT602 is designed for high-performance applications to provide a competitive advantage for its users.



WIND SPEED
0-75 m/s

WEIGHT
170 g

HEIGHT
57.5 mm

THE WORLD'S TOUGHEST WIND SENSORS
FTTECHNOLOGIES.COM

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SENSOR PERFORMANCE ^{1,2}

Measurement Principle	Acoustic Resonance (compensates for changes in temperature, pressure and humidity)
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WIND SPEED MEASUREMENT

Range	0 - 75m/s
Resolution	0.1m/s
Accuracy	±1% (at 25m/s at datum)

WIND DIRECTION MEASUREMENT

Range	0 to 360°
Resolution	1°
Sensor Accuracy	±1° (at 25m/s at datum)
Compass Accuracy	5° RMS

ACOUSTIC TEMPERATURE MEASUREMENT

Range	-20 to +60°C
Resolution	0.1°
Accuracy	±2° (at 21°C)

PRESSURE MEASUREMENT

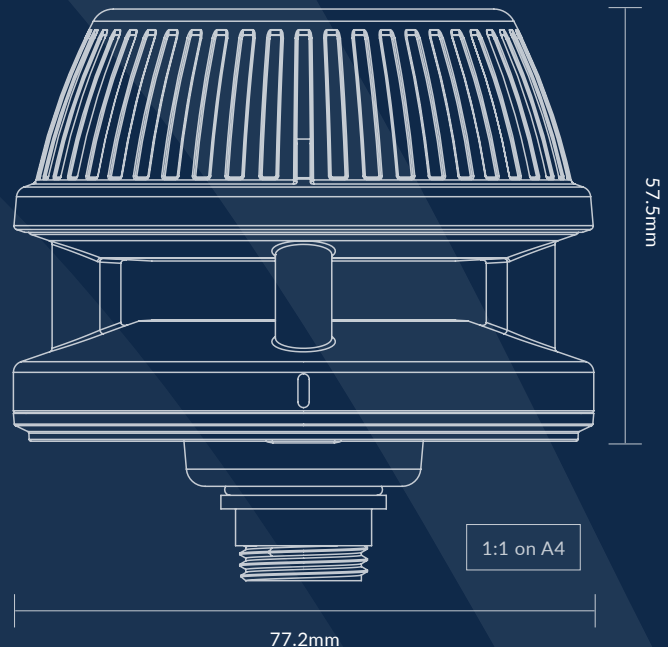
Range	540 - 1200hPa
Resolution	0.0001hPa
Accuracy	±0.25%

TILT MEASUREMENT

Range	-40 to +40°
Resolution	0.1°
Accuracy	±7.5°

PHYSICAL

Weight	170g
Material	UV stabilised polycarbonate blend
I/O Connector	12-way M12 connector (PX0412/12P)
Mounting Method	Surface-mount with adaptor for pipe- mounting



POWER REQUIREMENTS

Supply Voltage	5 - 24VDC range
Sensor Current	28mA nominal (24VDC) 40mA (5VDC)

DATA I/O

Interface	RS422 (full-duplex) RS485 (half-duplex) UART CANbus
Format	ASCII NMEA 0183 NMEA 2000
Data Update Rate	Up to 10 measurements per second (10Hz)

ENVIRONMENT

Temperature Range	-20 to +60°C (operating) -40 to +60°C (storage)
Humidity	0 - 100%
Altitude	0 - 4000m

1. All specifications subject to change without notice.

2. Specifications calculated with the default settings and filters enabled.