## 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

 $0-\overline{75}_{\text{m/s}}$ 

WEIGHT

170<sub>9</sub>

HEIGHT

57.5 mm

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#### SENSOR PERFORMANCE 1,2

Measurement Principle Acoustic Resonance

(compensates for changes in temperature, pressure and humidity)

and number

## 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

 $\begin{array}{ll} \text{Range} & 540 - 1200\text{hPa} \\ \text{Resolution} & 0.0001\text{hPa} \\ \text{Accuracy} & \pm 0.25\% \end{array}$ 

## **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

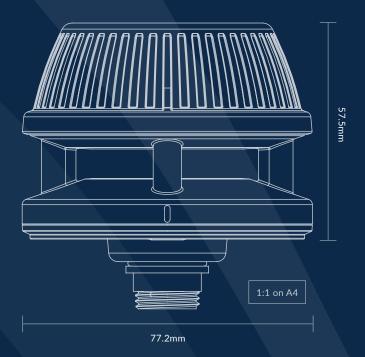
(PX0412/12P)

Mounting Method Surface-mount with

adaptor for pipe-

mounting

- 1. All specifications subject to change without notice.
- 2. Specifications calculated with the default settings and filters enabled.



#### **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







