FT205 LIGHTWEIGHT

ACOUSTIC RESONANCE WIND SENSOR



DESIGNED FOR UAVS

The FT205 wind sensor weighs only 100g (3.5oz) and has been specifically designed for use on drones and unmanned aerial vehicles (UAV). An integrated electronic compass makes it ideal for use on a moving platform.

The FT205's compact size and shape makes it physically strong. It is resistant to electrical interference and is also fully-sealed and water-resistant. It is able to operate at altitudes up to 4000m and at temperatures between -20°C and +70°C.

With low power requirements, reading up to 75m/s the FT205 Lightweight Wind Sensor is ideal for UAV flight control systems and environmental monitoring from drones.

The FT205 has been designed to fit either to a pole or flat surface and the sensor includes the parts to convert it to a pole mount device. It can also be mounted upside down.

DIMENSIONS

A. Sensor height	55.1mm
B. Sensor diameter	56.4mm
C. Mounting surface to cavity centre	20.4mm
D. Connector width	16.3mm
E. Recommended mounting surface hole	20mm



SPECIFICATIONS AT A GLANCE

WEIGHT

100 °

WIND SPEED

0-75 m/s

POWER USAGE

 30_{mA}

FT205 LIGHTWEIGHT













WIND SPEED 1

Range	0-75m/s	0-270km/h	
Resolution	0.1m/s	0.1km/h	0.1knots

WIND DIRECTION 1

Range	0 to 360°
Resolution.	1°
Accuracy	4° RMS
Compass accuracy	.5° RMS ⁴

ACOUSTIC TEMPERATURE 1, 2

Resolution	0.1°C
Accuracy	±2°C
Under the follow	ing conditions:

SENSOR PERFORMANCE

Acoustic Resonance (automatically compensates for variations in temperature, pressure & humidity). Metres per second, kilometres per hour or knots ..0-4000m operating range ..-20° to +70°C (operational), -40° to +85°C (storage)

POWER REQUIREMENTS 3

PHYSICAL

I/O connector.
I/O cable.
Sensor weight.
Sensor material
Mounting method. ..Molex CLIK-Mate (connector part 505405-0860) ..Molex CLIK-Mate (600mm cable part 15135-0806)

...100g
...3D printed graphite and nylon composite
..Surface-Mount with compressed gasket and 3x screw fit. An adaptor is provided for pole-mounting
(the pole is not supplied)

DIGITAL SENSOR

Format. Data update rate. Error handling.

...The sensor has an optional overspeed warning scheme. This scheme is disabled by default but can be enabled at the factory if requested. With the scheme enabled, if the sensor detects a wind speed greater

- available when using NMEA 0183 mode.
- ² Refer to user manual for further details.
- ³ A suitable PSU capable of providing up to 0.2A maximum is recommended. RS422 current load is dependent on topology and resistor values RS422 in

A4302-1-EN Information furnished by FT Technologies Ltd is believed to be accurate and reliable. However, no responsibility is assumed by FT Technologies Ltd for its use; nor for any infringements of patents or other rights of third parties which may result from its use. No licence is granted by implication or otherwise under any rights of FT Technologies Ltd.