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 9

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	

WIND DIRECTION 1

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

ACOUSTIC TEMPERATURE 1, 2

Resolution.		0.1°0
Accuracy		±2°C
Under the	following	conditions:

Speed Range............-20°C to +60°C
Temperature Difference....<10°C
between the air temperature and the actual temperature of the sensor.

SENSOR PERFORMANCE

POWER REQUIREMENTS 3

PHYSICAL

I/O connector Molex CLIK-Mate (connector part 505405-0860)
I/O cable Molex CLIK-Mate (600mm cable part 15135-0806)
Sensor weight 100g
Sensor material 3D printed graphite and nylon composite
Mounting method Surface-Mount with compressed gasket and 3x scr

.......100g3D 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

¹ All specifications subject to change without notice. Specifications calculated with the default settings and filters enabled. Kmph and knots are only 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