FT722-FF (FLAT FRONT)

ACOUSTIC RESONANCE WIND SENSOR

DESIGNED FOR TURBINE CONTROL

FT TECHNOLOGIES

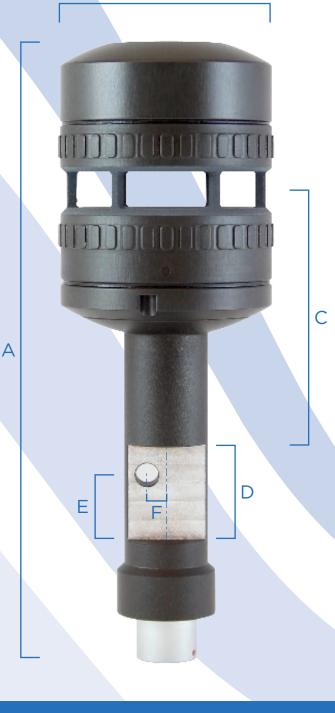
The FT722 Flat Front wind sensor is designed for quick and easy installation against a metal bar. The bar allows the sensor to be aligned to the central axis of the turbine without error.

Ideal for retrofit, the sensor provides a single, compact solution to replacing an existing mechanical wind vane and anemometer wind measurement system. With no moving parts to wear out or degrade, turbine downtime is reduced, power output is increased and yaw control is more efficient. With updated software and improved accuracy, it is also a fit and function replacement for the FT702LT-FF sensor.

The FT722-FF has sufficient heating capacity to keep itself ice-free and to heat the mounting bar. This prevents ice from building up and blocking air flow through the measurement cavity. It has passed over 30 environmental tests to demonstrate its durability.

DIMENSIONS

A. Sensor height	
B. Sensor width max	56mm
C. Top of mounting flat to cavity centre	66.3mm
D. Mounting flat height	25mm
E. Bottom of mounting flat to hole centre	17mm
F. Centre of mounting flat to hole centre	5.1mm



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SPECIFICATIONS AT A GLANCE

wind speed 0-50 m/s

weight 320g

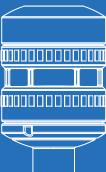
AVAILABILITY
> 999.9%

THE WORLD'S TOUGHEST WIND SENSORS

FT722-FF (FLAT FRONT)

±2% (16-40m/s) ±4% (40-50m/s)







Range.....0-50m/s Resolution.....0.1m/s

WIND DIRECTION

Range
Resolution
Accuracy (within ±10° datum)
Accuracy (outside ±10° datum)

SENSOR PERFORMANCE

Acoustic Resonance (automatically compensates for variations	in temperature, pressure & humidity).
metres per second, kilometres per hour or knots	
0-4000m operating range	
40° to +85°C (operating and storage)	
IP66, IP67 and IPX6K	
0° to 55°C. The heater set point can be configured	
	0-4000m operating range 40° to +85°C (operating and storage) 0-100% IP66, IP67 and IPX6K

POWER REQUIREMENTS

Supply voltage	12V to 30V DC (24V DC nominal)	
Supply current (heater off)	31mA typical	
Supply current (heater on)	Limited to 4A (default), 6A (max) – confi	igurable in software in 0.1A increments. Heater power
	consumption will depend on the energy	required to keep the sensor's temperature at the user
	determined set point. The heater and se	ensor power consumption is limited by default to 99W.

PHYSICAL

DIGITAL SENSOR

Interface		
Format	. ASCII data, polled or continuous output modes, Polar and NMEA 0183	
Data update rate	Maximum 10 measurements per second	
Error handling		
	This error flag character is 1	
ANALOGUE SENSOR		

direction (datum value configurable as 4mA or 12mA). Both analogue channels are updated ten times per second. 4-20mA configuration port......This port is for the user to change the internal settings of analogue sensors and to perform diagnostic testing. This interface is not intended for permanent connection to a data logger or other device. value of 1.4mA (configurable up to 3.9mA).

EMC AND ENVIRONMENTAL TESTS

The FT7 Series have passed over 30 different environmental test certificates including Corrosion, Icing, De-Icing, Shock, Hail, Drop, ESD, power interruption and EMC. Further test details and full test reports available on request or via our website.

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ACOUSTIC TEMPERATURE*

Resolution.....0.1°C Accuracy......±2°C Under the following conditions: Speed Range......5m/s - 60m/s Operating Range.....-20°C to +60°C Temperature Difference....<10°C between the air temperature and the actual temperature of the sensor *Available on digital sensors only

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