FT752-PM (PIPE MOUNT)

ACOUSTIC RESONANCE WIND SENSOR



UNIQUE ACU-RES® TECHNOLOGY

The FT752 is the latest evolution of the FT7 series, incorporating a design legacy of 20 years and guaranteeing enhanced survivability. Developed for offshore typhoon, and hurricane regions for turbine control in the most challenging conditions. It measures wind speeds of up to 90m/s with FT's exclusive Acu-Res® technology and now introducing Advanced Sensor Diagnostics for enhanced fault monitoring.

HIGH DATA AVAILABILITY

The FT752 is maintenance-free, reducing operational costs while delivering exceptionally high data availability. It boasts low power-consumption with a high signal-tonoise ratio making it resistant to shock, vibration and EMI while ensuring reliable and accurate data acquisition. Additionally, the sensor is compact and lightweight for easy transport and handling.

EXTREME SURVIVABILITY

The FT752 sets the standard for extreme survivability. It is rugged and shock-resistant, capable of withstanding the harshest environments. It boasts powerful de-icing capabilities to maintain optimal performance even in icy conditions. The corrosion-resistant design further enhances its durability, while lightning and surge protection safeguards against electrical disturbances, making it a reliable choice in the most demanding scenarios.



SPECIFICATIONS AT A GLANCE

WIND SPEED

0-90_{m/s}

WEIGHT

AVAILABILITY

348, 99.9%

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WIND SPEED

Range	0-90m/s
Resolution	0.1m/s
Accuracy	±0.3m/s (0-16m/s)
	±2% (16-40m/s)
	+4% (40 00m/s)

WIND DIRECTION

Range	.0 to 360°
Resolution	1°
Accuracy (within ±10° datum)	.2° RMS
Accuracy (outside ±10° datum)	.4° RMS

ACOUSTIC TEMPE	RATURE"
Units	Celsius,
	Fahrenheit or Kelvin
Resolution	0.1°
Accuracy	1°C RMS
Under the following co	nditions:
Speed Range	2m/s - 90m/s
Operating Range	40°C to +85°C
*Available on digital ser	nsors only



SENSOR PERFORMANCE

Measurement principle...... Acoustic Resonance (automatically compensates for variations in temperature,

pressure & humidity)

Temperature range.....-40° to +85°C (operating and storage)

POWER REQUIREMENTS

Supply current (heater off)......31mA typical

consumption will depend on the heater energy required to keep the

sensor's temperature at a user determined set point. The heater is limited

to 4A and 99W by the default software setting.

PHYSICAL

I/O connector......5-way (RS485 option), 8-way (4-20mA option) multipole connector

Weight.....Sensor 348g Adapter 350g

Material...... Aluminium alloy, external metal body is hard-anodised

DIGITAL SENSOR

Error handling.......When an invalid data reading is detected a configurable error flag status can be output in the wind data message.



ANALOGUE SENSOR

loop for wind direction (datum value configurable as 4mA or 12mA). Both analogue channels are

updated ten times per second.

testing. This interface is not intended for permanent connection to a data logger or other device.

default value of 1.4mA (configurable up to 3.9mA).

