FT752-DM50 (DIRECT 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-to-noise 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 O-90_{m/s} wеіднт 535_д AVAILABILITY

THE WORLD'S TOUGHEST WIND SENSORS



FT752-DM50 (DIRECT MOUNT)

±2% (16-40m/s)

±4% (40-90m/s)

pressure & humidity)



WIND SPEED

Range.....0-90m/s Resolution.....0.1m/s

WIND DIRECTION

Accuracy (outside ±10° datum)......4° RMS

SENSOR PERFORMANCE

Ingress protection......IP67 and IPX6K

POWER REQUIREMENTS

Supply voltage		
Supply current (heater off)		
Supply current (heater on)	6A (max) – The heater is thermostatically controlled. Heater power	
	consumption will depend on the heater energy required to keep the	

PHYSICAL

I/O connector
Sensor Weight
Mounting Method
Material

DIGITAL SENSOR

Interface		
Format	ASCII data, polled or continuous output modes	
Data update rate	Up to 10 measurements per second (10Hz)	
Error handling		
	data message.	

to 4A and 99W by the default software settings

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

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

......Direct Mount onto a maximum 50.2mm (outside diameter) pipe

ANALOGUE SENSOR

nterface	
ormat	
	direction (datum value configurable as 4mA or 12mA). Both analogue channels are updated ten
I-20mA configuration port	This port is for the user to change the internal settings of analogue sensors and to per
	testing. This interface is not intended for permanent connection to a data logger or other de
rror handling	When the sensor detects an invalid reading then both speed and direction current loops wil
	value of 1.4mA (configurable up to 3.9mA).

ALIGNMENT ACCESSORIES

FT has developed two accessories to facilitate fast and precise alignment of the FT752-DM50 to a given datum. Both of these accessories are designed to be used with a Laserboy II or comparable clamp-on laser unit.

ISO 9001=ISO 14001



FT040 - Mast Mounted Alignment Tool The FT040 is used in conjunction with the FT039 Alignment collar. Use FT040 to align the collar before locking it in place. The alignment accessory can then be removed to fit an FT752-DM50 in the pre-aligned positions.

.....535g



FT041 - Sensor Mounted Alignment Tool The FT041 clamps onto the FT752-DM50, allowing you to rotate the sensor to datum before locking it in place. The alignment accessory can then be quickly

removed for use on the next sensor.

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FT Technologies Ltd Sunbury House, Brooklands Close Sunbury-on-Thames, TW16 7DX, UK Tel: +44 (0)20 8943 0801 | info@fttechnologies.com

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

rent loop for wind times per second. form diagnostic vice. drop to a default

ACOUSTIC TEMPERATURE*

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 sensors only