FT TECHNOLO

# MARKET LEADER IN WIND SENSORS

**FT TECHNOLOGIES IS FOCUSSED ON PRODUCING MARKET LEADING WIND SENSORS FOR TURBINE CONTROL. THEIR SENSORS ARE INSTALLED ON NEARLY A QUARTER OF ALL TURBINES WORLDWIDE AND ARE USED ON APPROXIMATELY 70% OF ALL OFFSHORE WIND TURBINES.**

Their principle aim is to provide reliable data in demanding conditions to assist the wind industry in meeting its ever increasing targets.

## ACOUSTIC RESONANCE MEASUREMENT PRINCIPLE

All their sensors incorporate Acu-Res technology which uses their patented Acoustic Resonance measurement principle. This technology enables them to produce a strong ultrasonic signal in a small space. The sensors are therefore small, have no moving parts and are extremely tough and their current range of sensors has passed over 28 environmental tests including hail, vibration, icing, drop, sand and lightning.

The sensors need to be rugged as they are exposed to the worst that the climate can throw at them and they have to be able to provide 5 readings per second every minute of the day – otherwise the turbine will shut down.

## INVESTMENT

They pride themselves on the thoroughness of their engineering and the quality of their manufacturing processes and continue to invest in product development and are conducting leading edge research in to acoustics, transducers, aerodynamics, materials, coatings and environmental protection.

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## HISTORY AND EXPERIENCE

FT Technologies was founded over 30 years ago and has just celebrated 10 years of being in the wind industry. The business originally concentrated on defence based research projects and in the early 1990s there was a military requirement for a wind sensor for ballistic meteorology with no moving parts. It had to be rugged enough to operate reliably on battlefield equipment.

With this in mind FT went on to produce and patent their first product that had a stainless steel body which was combined with other features that suited many military uses. It gradually became clear that the product's robustness made it ideal for the developing wind turbine industry.

The products are now manufactured from high grade machined aluminium and the design has been tested to the limits via Highly Accelerated Life Testing. The sensor has survived vibration at 30g and rapid temperature cycling between -100c and +100c.

Manufacturing such a tough product is essential for an industry that depends on the continual provision of reliable data, week in week out, in all weather conditions. The stronger the product, the less maintenance required and therefore the less down time for the turbine.

## IMPRESSIVE CLIENT LIST

Our wind sensors are used by 12 of the 15 biggest turbine manufacturers in the world. Over the past four years, sales have increased by 100% allowing the business to expand and provide a better service to our customers, from Japan to the US and everywhere in between.

FT is continuing to invest in the technology to improve the overall reliability, performance and accuracy of the sensor.

**FT Technologies**
**www.fttech.co.uk**

*e* = See enhanced entry online