



# Photo-Sonics International Ltd.

Leaders in specialised instrumentation products

Photo-Sonics and Datatel Telemetry have over 40 years combined experience, of making telemetry systems to operate in large rotors, aircraft propellers, steam, hydro and wind turbines. Our experience and broad knowledge base make us the ideal partner for your instrumentation requirements.

Datatel telemetry systems are used extensively for condition monitoring, within turbines providing vital early warning systems before a failure occurs.

Contact free power and signal transmission ensure long life even in saltwater environments or in areas where there are high levels of dust and particulates.

Our systems do not need to be rotating to take measurements, providing our customers with 24/7 measurements even in periods of machine downtime.

The Datatel telemetry systems can be operated submerged in salt water, hot oils, fuels, and lubricants with no loss of performance. Making them perfect for bearing monitoring, gear strain studies, thrust, torque and vibration measurement.

We are able to offer systems with AC, and DC coupling for strain measurement and multi channel systems solutions that can mix channel types, incorporating thermocouple, Strain, RTD, crack detection, and ICP sensor data.

## Key benefits.

- ⊕ Long term maintenance free operation
- ⊕ Remotely controlled operation
- ⊕ Flexible systems reduce integration time
- ⊕ No wear, no interference with other instrumentation
- ⊕ Easy interface to all standard data acquisition systems
- ⊕ Multiple channels and data types sampled simultaneously.

## Our systems are currently in operation for:

- ⊕ Vibration and strain on the rotor blades.
- ⊕ Bending moment in the rotor shafts.
- ⊕ Bending moment and strain in generator shafts and drive shafts.
- ⊕ Temperature in the generators
- ⊕ Vibration and strain in bearings, gearboxes and generators.
- ⊕ Torque measurements.
- ⊕ Temperature, pressure, strain, crack detection or vibration measurements.

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