



Digital Rotor Telemetry Short Form Catalog



Single Channel Telemetry



Multi-channel Telemetry



Ground Fault Detection



Single-Channel Systems



AT-4500 EasyApp



AT-4400 Split Clamp Collar Mounted Systems



Induction Powered Telemetry: AT-4500 EasyApp and AT-4400 Applications: Product Features: without batteries

AT-4500 EasyApp

Product Features:

- No batteries required!
- Reusable transmitter for multiple shaft sizes (2" to large shaft OD), using aramid fiber straps
- Environmentally rugged transmitter — mud/ice/splash resistant
- Excellent rotor-to-pickup-coil movement tolerance
- High data integrity and noise immunity

Battery Powered Telemetry: AT-5000 EasyApp

The AT-5000 EasyApp uses a single lithium battery to power the system. It is ideal for short term testing and it can be used for multiple applications. Applications range from automotive half shafts to large turbomachinery.

Torque, Temperature (RTD and thermocouple), and Voltage measurements on a range of equipment from vehicle drive shafts, turbomachinery, and motor/generator field excitation.

- Easy application and installation
- Capable of high g-forces by use of counterweighted aramid fiber strap
- Small transmitter- typically requires < 0.9" radial shaft clearance
- Long operating life from an internal battery — 150 hours for 1000 ohm strain gage (50 hours for 350 ohm gage) continuous use
- Two systems (Channel A and Channel B) can be used side-by-side for more than one channel requirements
- Crystal controlled — No tuning required
- Manual shunt calibration invoked at transmitter



AT-5000 EasyApp



Multi-Channel Systems



AT-7000 Systems

AT-7000 Multi-channel Telemetry

High bandwidth, 12 or 16 bit resolution systems for multiple sensor inputs (2 to 256). The AT7000 multi-channel systems are induction powered systems and are customized to meet the needs of specific applications.

Sensors: RTDs, strain gages, thermocouples, rotating proximity probes, field voltages, accelerometers.

Applications: AT7000 systems, in general, acquire signals from a unique mix of sensors mounted on rotor components. These sensors are often strain gages and thermocouples, but the AT7000 can be adapted to a wide range of other sensors as well. The system continuously digitizes these sensor signals and transmits them off the rotor using wireless digital telemetry technology.

Product Features:

- Inductive powered for long term operation
- Receiver Outputs: digital, analog 4/20mA and +/- 10V
- Customized solutions for specific combinations of sensor needs
- End of shaft and mid shaft versions available



AT-8000 Systems

AT-8000 Series Ground Fault Monitors (EFREM and AT-8300 Rotor Health Monitor)

The Earth Fault Resistance Monitor (EFREM) and the Rotor Health Monitor (RHM) provide wireless rotor ground fault and temperature monitoring for generators and motors. The systems replace older slip ring contact ground fault detectors on any synchronous generator or motor.

These rotor ground fault detection systems provide:

- Continuous ground fault resistance measurements, trending fault severity and location
- Dual alarm relay contact outputs for user-configurable insulation resistance limits
- 4/20mA output of log of ground fault resistance and other parameters
- Field excitation voltage level monitoring
- Field current (and average field temperature) available on some models
- Temperature Monitoring: RTD measurements (up to 24 sensors) available with the AT-8300 RHM model



If it rotates, we can instrument it & provide real time wireless data.

Here's How:

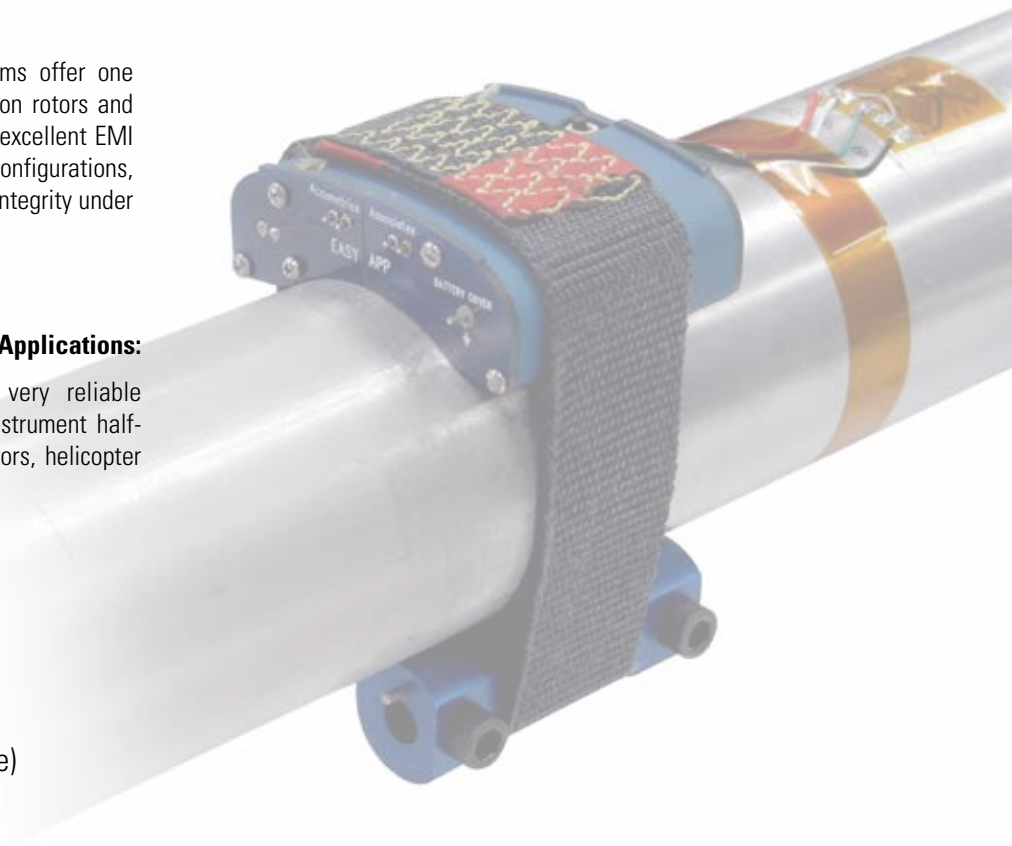
Accumetrics digital wireless telemetry systems offer one of the best means of making measurements on rotors and provide greater stability, higher accuracy and excellent EMI immunity. Available in single and multichannel configurations, Accumetrics telemetry systems preserve data integrity under the most challenging conditions.

Advanced Telemetry Systems for Serious Applications:

Accumetrics manufactures advanced, and very reliable telemetry systems that have been used to instrument half-shafts, drive shafts, turbines, motors, generators, helicopter blades, wind turbines and much more.

Measurements include:

- Torque
- Strain, bending
- Pressure
- Temperature (RTD and thermocouple)
- Torsional strain testing
- Motor and generator rotor voltage, current, and temperatures
- Motor and generator field ground fault



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About Accumetrics:

Accumetrics Inc., was founded in 1992, and became a part of the PCB Group in 2013. The company designs and assembles digital telemetry systems that transmit sensor data from rotating structures using wireless techniques, preserving the integrity of the data even in environments with high levels of electromagnetic interference.

We can provide a range of solutions from single channel products, such as strain gage torque measurements, to advanced multichannel systems that transmit data from hundreds of sensors.

No matter what industry you are in or what your telemetry requirements are, chances are that we will be able to provide you with a system that will meet your needs.

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