



## MODEL AT-7000

# MULTI-CHANNEL DIGITAL TELEMETRY

- Dependable wireless replacement for sliprings
- Sensor data is measure and digitized on the rotor
- Modular construction allows for a variety of sensors to be monitored
- Rugged construction for high G-force applications
- Induction powered (no batteries) for continuous use

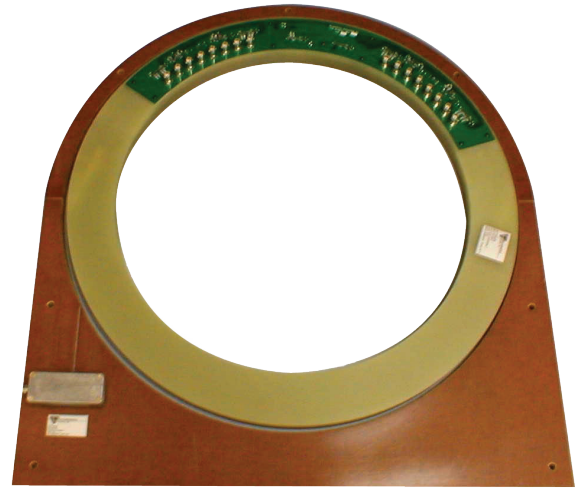
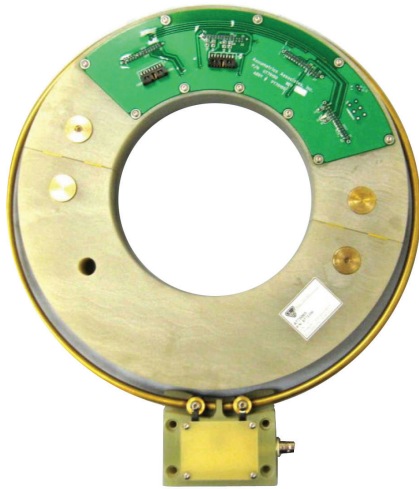
## APPLICATIONS

- Motor temperature monitoring
- Field voltage and currents on brushless designs
- Multichannel strain measurement
- ICP/IEPE accelerometer measurement
- Ground fault leakage current
- Torsional vibration

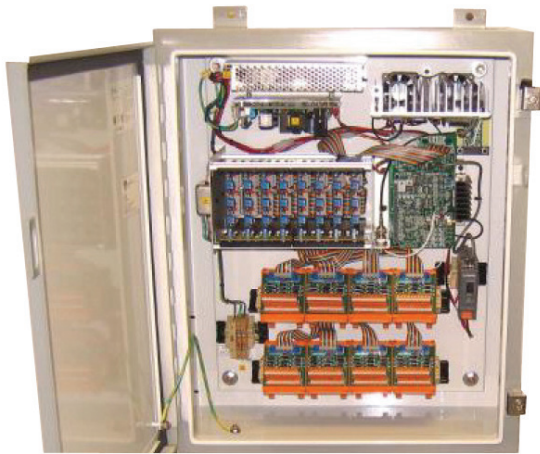
## ROTOR TELEMETRY

The Accumetrics AT-7000 Series Multichannel Telemetry System allows machine designers and maintenance personnel to measure exactly what is happening on the rotating components of their equipment while it is in operation—without the need for slip rings. The system can combine any customized mix of ordinary sensors: strain gages, thermocouples, RTDs, accelerometers, as well as motor/generator field voltages, currents, and ground fault currents. The received data is continuously streamed to the user as analog ( $\pm 10$  V or 4-20m A) or digital data.

With an AT-7000 System, sensor signals are amplified, anti-alias filtered, and 12-bit digitized while on the rotor. A data stream of digital data is wirelessly transferred off rotor by close proximity RF transformer coils (no rotation is needed). The digital data streams are carried by a coaxial cable to the remote receiver for digital output or conversion to analog voltage ( $\pm 10$  V typically). Software may be provided for control and data archiving of thermocouple data.



**Split clamp-collar transmitter, multiple modules, epoxy-glass (G10) construction, and stationary loop coil**



**Receiver in NEMA enclosure**



**Receiver in rack mount enclosure**