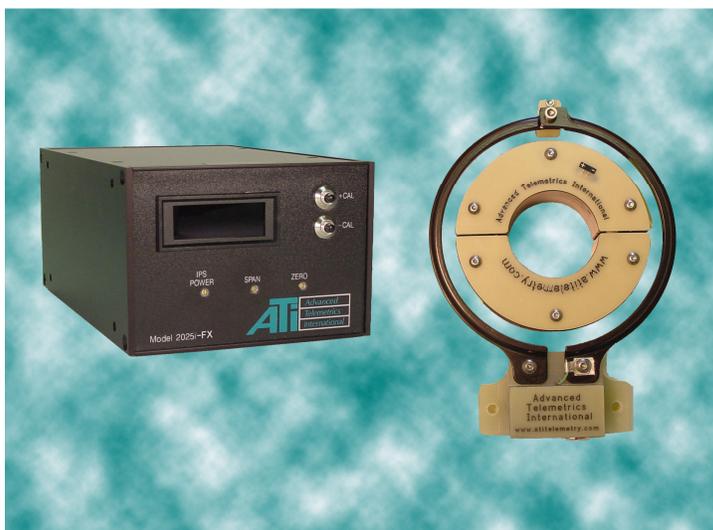


**ROTATING TORSIONAL VIBRATION
 MONITORING SYSTEM**
INDUCTION or BATTERY POWERED

Clamp-On, Telemetry-Coupled Vibration Collar Facilitates Quick Installation

The **ATi Torsional Vibration Monitoring System** transmits torsional acceleration from a rotating shaft, **while the system is running.**

The system consists of a rotating collar and a receiver. The rotating collars are available to clamp on to most any shaft size. Single piece versions are also available. The collar contains two embedded accelerometers mounted 180 degrees apart. The output from the accelerometers is processed prior to being transmitted by the 2043BCX Transmitter to a stationary receiver.



The output from the accelerometers is processed, such that gravitational effects are cancelled, permitting high sensitivity measurements.

Power is supplied to the Transmitter Inductively for continuous, non-interrupted measurements. No batteries are required because the IPS delivers power through a stationary loop antenna to a rotating antenna.

Battery-powered collars are also available. The rotating loop antenna and Induction Power Converter are embedded into the Model 2010i Collar Assembly. The receiver includes a digital backlit LCD display and analog outputs. The unit can be powered from 12 VDC or 120 VAC.

Each system comes complete with all required accessories. This includes antennas, AC power adapter or DC power cord for Receiver, and all required cables.

FEATURES



No Slip Rings



No Shaft Modifications Required



Integral Accelerometers, no sensor connections.



Clamp-on Collar houses Transmitter and Induction Power Converter. Contains embedded transmitting antenna



Transmits Sensor Signals via Radio Transmitter to a Stationary Receiver



Immune to electromagnetic interference, dust, oil, moisture, etc.

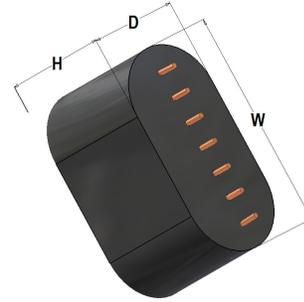
Specifications

SYSTEM

Bandwidth DC to 6.5 KHz
 filtered output: DC to 100 Hz
 Integral Non-Linearity +/- .10%
 Repeatability +/- .05%
 Maximum Error <.25% Full Scale

RECEIVER: Model 2025i, 2025iR

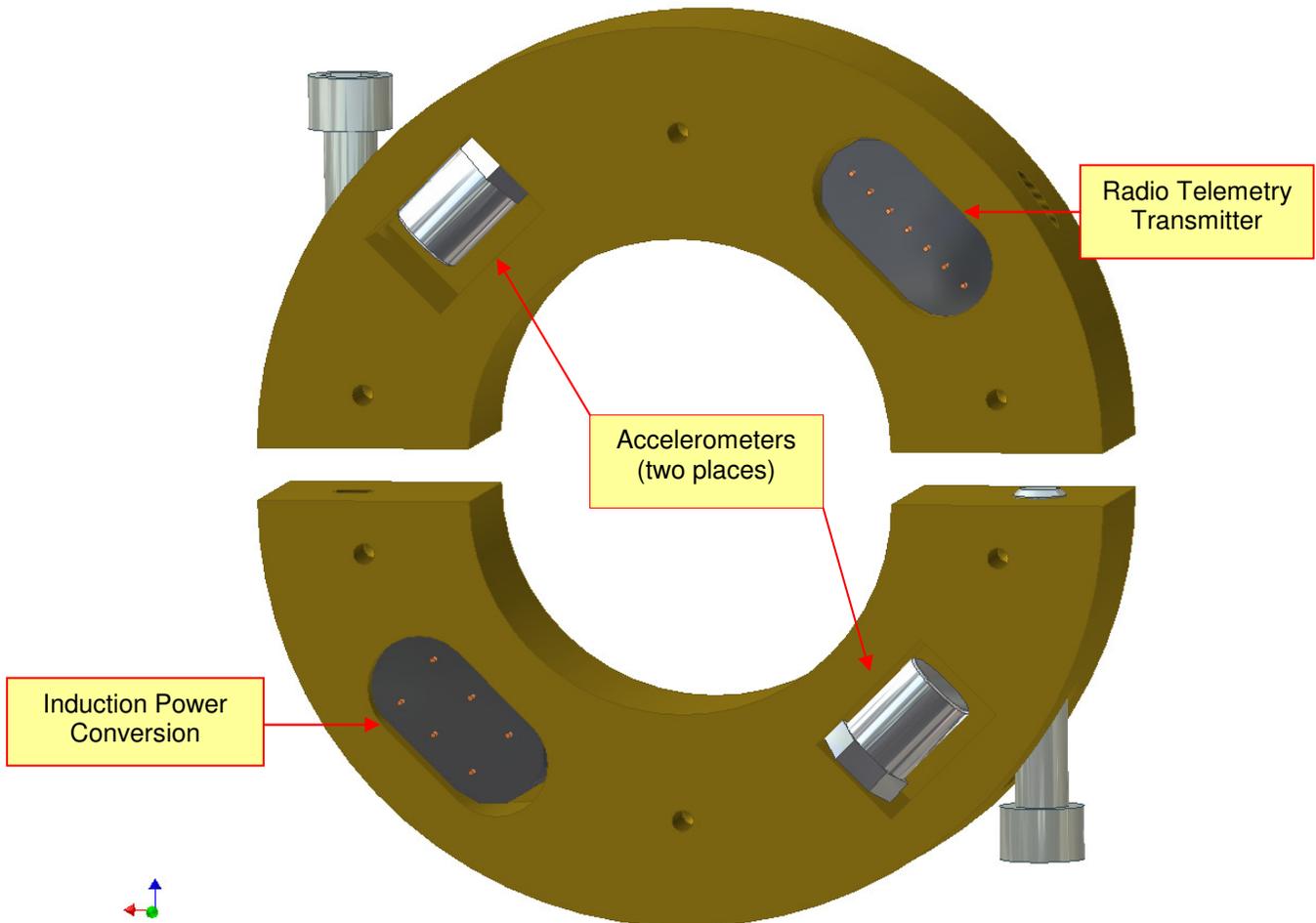
Power 120 Volts AC
 and 12 Volts DC
 Output 0-2, 5, 10; ± 2, 5, 10 VDC
 (0-20, 4-20 mA Optional)
 Display 3½ Digit Backlit LCD
 Output Ripple < 2 mV (Filtered)
 < 15 mV (Wide Band)
 8 pole Butterworth Filter
 Size 8.0"L x 5.0"W x 3.48"H
 Induction Power.....500kHz



Additional Transmitter molds/sizes available.

Model 2043BCX Miniature Dual Summing Acceleration Transmitter

Power9 Volts or Induction Power
 Acceleration Limit 32,000g Static
 (125g Dynamic, DC -1 kHz)
 Zero Drift02% / Deg C
 Span Drift02% / Deg C
 Operating Temperature Range: -40 to 140 Deg C
 Size.....1.0"H x .68"D x 1.47W
 Excitation.....2mA constant current



Model 2010i-AC Split Collar Assembly