

## In-Vehicle Telemetry Wheel Sensor

ATi's NEW Rotating Wheel Sensing system is designed for measurement of critical parameters from a rotating wheel. In today's highly competitive automobile marketplace, safety and comfort of passengers are more important than ever and have higher consideration when consumers are choosing a new vehicle.

This new device, which comes in a multitude of configurations, allows manufacturers of wheel and tire components, as well as suspension and drive train mechanics, to accurately and thoroughly measure various parameters to best optimize the performance of their product.

Designed to be mounted directly on the existing wheel rim without any modifications of the wheel hub, the system can be used to provide data on tire characteristics, suspension systems, brake performance, drive train and more. Capable of withstanding the harsh environments of automobile road testing, the system can operate over the full speed range of light cars, trucks and SUV's.

The optional angle encoder determines the angular position of the wheel and the modular design allows transmitters to be easily swapped so different parameters or test setups can be configured. Hub adapters can be designed to accommodate both 4 or 5 lug patterns or customized lug patterns and include special Lug Nuts that are designed to replace stock lug nuts.



### FEATURES

- Transmits acceleration, pressure, temperature and most any other measurement from a rotating wheel.
- Custom configurable for any number and type of channels
- Built-In angular wheel position sensor features 1/2 degree resolution
- Rotating components are induction powered, for long term—uninterrupted measurements
- Can be mounted to front or rear wheels. Accommodates all suspension travel and steering angles
- Extremely rugged design, capable of handling the harshest conditions
- Adapter plate permits mounting to most any four or five lug patterns

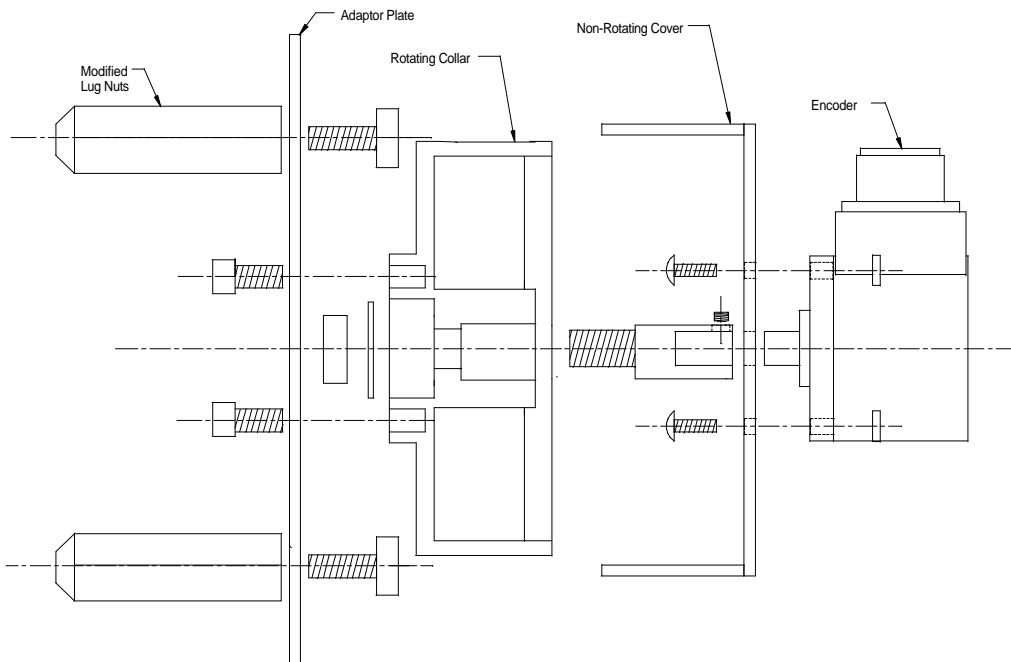
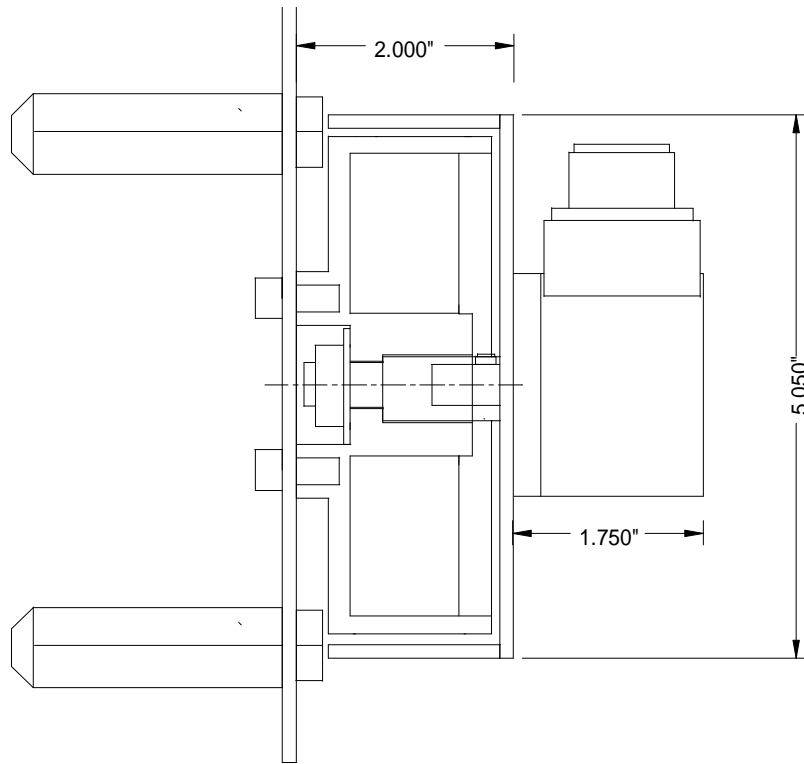
Consisting of one or more 2040 Series Transmitters, the system can accommodate acceleration, pressure, temperature and most any other measurement from a rotating wheel. These transmitters provide needed excitation and signal conditioning of the sensor data and transmit via telemetry to a receiver module located within the vehicle cab for data collection and analysis. There is no FCC license required to operate these transmitters.

★ *Custom Configurations Available* ★  
Contact factory representative for details

**Multichannel Receivers**  
available when multiple input measurements are required; such as with 4-wheel drive vehicles.



# Wheel-Mounted Telemetry System



Assembly View