



High-performance Wireless Telemetry Systems

IR Telemetrics is the technology leader in providing wireless transfer of data from internal reciprocating and rotating components. Our U.S. and foreign patented technology was developed by our own personnel to meet industry's need for a compact, lightweight, reliable, wireless data transfer system. Our transmitters withstand the stringent demands of harsh operating environments, such as internal combustion engines and automotive transmissions. IR Telemetrics' wireless telemetry systems provide data collection capability previously unavailable for a wide variety of industry applications.



Leading Edge Technology

Real time steady state and transient data transfer from components operating in their production environment is our specialty at IR Telemetrics. Our infrared and microwave telemetry systems allow your development engineers to measure operating parameters such as temperature, pressure, and torque on reciprocating and rotating components such as pistons, connecting rods, crankshafts, bearings, turbines, clutches and gears. Whether you require single or multiple channel data transfer, we can deliver a state-of-the-art telemetry system to meet your instrumentation requirements.



Testing Services

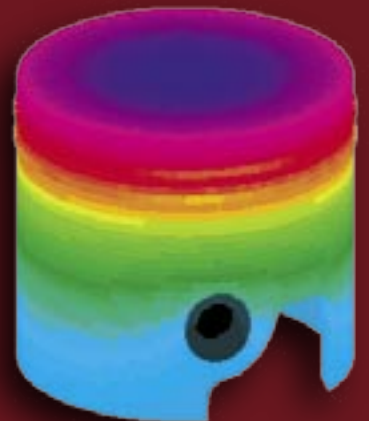
IR Telemetrics can support your development/research needs with our Full Service Dynamometer Test Laboratory for complete engine and transmission testing. In addition to dyno testing, our telemetry systems can be installed in your vehicle and powered remotely for mobile testing capability. IR Telemetrics' staff provides on-site technical support for installations, testing and data acquisition.



Engineering Services

IR Telemetrics' engineering staff has decades of experience with component design, development and validation. We can assist your engineers with:

- Measurement Techniques
- Test Plan Development
- Failure Mode Analysis
- Troubleshooting Field Problems
- Data Interpretation and Analysis



Our staff has over 60 years of combined experience in the design and development of 2-stroke, 4-stroke, and Diesel Power Cylinder Systems. Our expertise provides customers with a complete system approach to insure the successful execution of their power cylinder system. Industry leaders rely on our experience, our practical approach to problem solving, and our complete understanding of the specific constraints that exist for each project.

The combination of our telemetry technologies, dynamometer facility, and machine shop provide full support to our engineering services and become an extension of our customer's engineering organization. Optimize your power cylinder system by leveraging IR Telemetrics' experience.

Innovation with Guaranteed Success

IR Telemetrics is driven by the challenge of expanding the application of wireless data transfer to meet the development needs of our customers. All of our on-board electronic devices are custom built in-house to fit your package requirements and test parameters. We guarantee the successful transmission and acquisition of your data on each project. If you have a unique need for a data transfer never before attempted, contact us to discuss your application.



Technical Data

IR Telemetrics' telemetry systems are available in simultaneous or multiplexed channel configurations, allowing your team to acquire both steady state and transient measurements in real time.

Maximum bandwidth	5 kHz
Maximum operating temperature for electronics and batteries	150 °C
Maximum internal loading (reciprocating at 120 Hz)	3,000 g's
Maximum internal loading (continuous)	50,000 g's
Maximum operating pressure for transmitter and batteries	500 psig
Full Scale Accuracy	± 1%

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