



MICROTELEMETRY



OVERVIEW

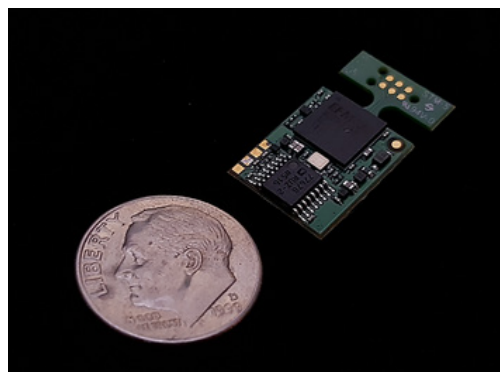
Wireless, fully digital telemetry in an incredibly small package! The micro telemetry is a 13mmX15mm wireless USB strain measurement core. Lightweight and embeddable, the micro telemetry features wireless power and data, and can accommodate wheatstone bridge applications and sensors including strain, pressure, servo-accelerometers, etc.

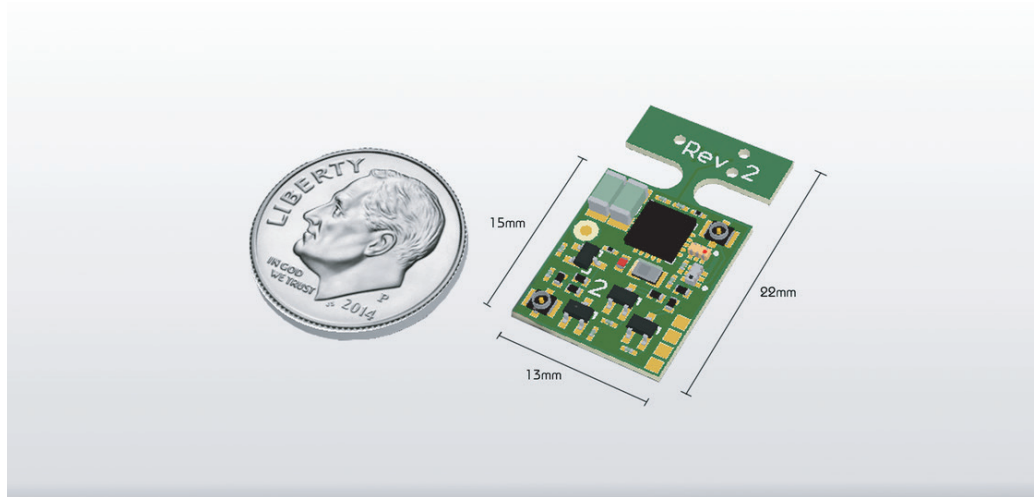
The Suprocktech Microtelemetry is low-cost, easy to apply, and durable making it an ideal solution for monitoring rotating/moving parts where wires and slip rings are just not feasible.



APPLICATIONS

- Machine tool holders
- Spindles
- Driveshafts
- Axles
- Compressors
- Machine qualification and model validation
- Linkage stresses
- Engines
- Generators
- Pump shafts
- Ideal for wirelessly monitoring moving parts
- Predictive maintenance





TECHNICAL SPECIFICATIONS:

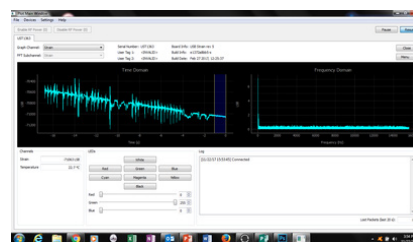
- Small, less than 0.5" by 0.6"
- Able to be attached to a wide variety of input transducers: strain, acceleration, pressure
- Powered wirelessly with up to two power antennas Strain, acceleration or pressure: 7812 samples/sec 24-bit data
- Input power and current measurement to aid in power antenna placement
- On board temperature sensor readings from -40°C to 125°C
- Intelligent on-board diagnostics
- Capable of wireless power excitation using Suprock RF stationary equipment.
- Application tested to 35,000 gees (343,350m/s²)



Suprocktech Microtelemetry in an automotive racing axle application



Embedded microtelemetry on CNC toolholder



The collected data is immediately available for analysis



888.473.9675 // 33 Zachary Road // Manchester, NH 03109

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