

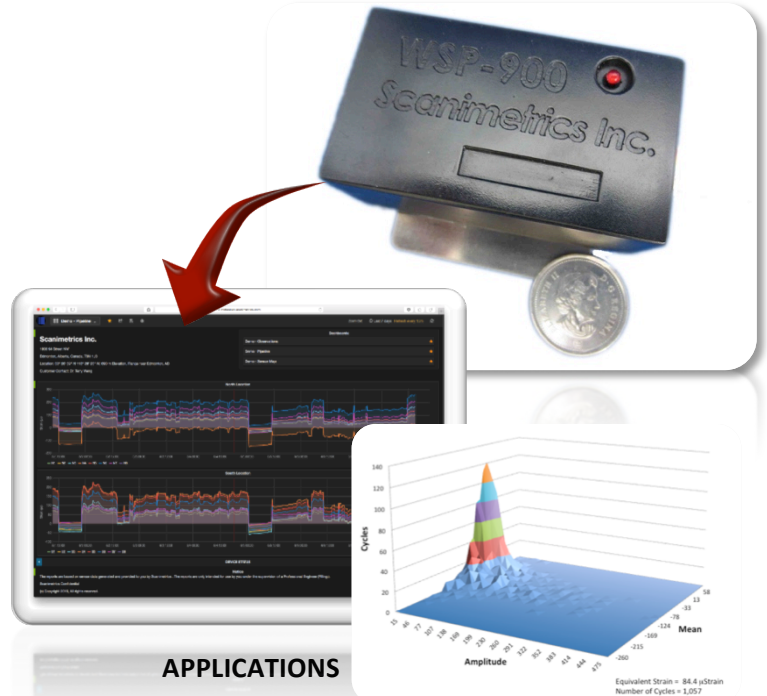


Advanced Technology Driving Change

WiTAP™ Wireless Strain Gauge Monitoring System

FEATURES

- Wireless data transfer
- Small size
- Rugged enclosure
- Easy to install
- Full and configurable strain gauge interface
- Built-in signal conditioning for strain gauge
- Strain sensors:
 - Uniaxial & Biaxial
 - Rosette
 - Torque
- Low power
- Integrated battery can power device for years
- Redundant data storage
- 12 bit measurement accuracy
- Built-in temperature sensor
- Network Status (e.g. battery, RF link quality)
- Sealed unit for harsh environments
- Simple and intuitive web reports



BENEFITS

- Fast and easy to install
- No wiring, no connections
- Enables access to hard-to-reach places
- Non-intrusive to normal machine operation
- No operator intervention required during logging

APPLICATIONS

- Monitor strain and strain vectors
- Measure metal fatigue
- Monitor torque on rotating shafts
- Test functional limits
- Monitor machine health

GENERAL DESCRIPTION

Scanimetrix' Wireless Strain Gauge System provides a foil-based strain measurement system with wireless data acquisition. It combines "WiTAP™ Motes" which acquire sensor data and transmit the data to a Scanimetrix' internet gateway and access point. Real-time data is then streamed wirelessly to the Scanimetrix' MoteScan™ Cloud, analyzed and made available through a web application. The WiTAP™ can be mounted either magnetically or attached with an adhesive. The WiTAP™ incorporates a sealed battery, eliminating the need for an external power supply.

Once the WiTAP™ has been activated, it can be configured to provide years of continuous operation. The gateway can be separated from the WiTAP™ to receive the strain data being transmitted. The wireless WiTAP™ motes operate as a mesh network and can relay data between the gateway and other WiTAP™ motes which are not directly reachable by the gateway. This enables WiTAP™ motes to be placed deep inside machinery and still be accessible by the gateway.

For more information on Scanimetrix' products, please contact:

Address: 9468 51ST Avenue NW, Edmonton, AB Canada T6E 5A6

Website: www.scanimetrix.com Email: info@scanimetrix.com

Phone: 1-866-747-9441 or 780-433-9441 Fax: 780-433-9499



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STANDARD SPECIFICATIONS

Sensor Operating Temperature Range	-40 °C to +150 °C
Operating Temperature Range	-40 °C to +85 °C
Maximum Data Acquisition Rate	100 samples per second (single channel)
Maximum Wireless Operating Range	10 metres (extendable with repeaters)
Maximum Battery Life	Up to 2 years (See Note 1) 50 million samples
Modes of Operation	Real-time data display, unaccompanied alarming, data logging and data transmission
Minimum Strain Resolution	4 microstrain
Dynamic Range	0 to 5000 microstrain
Size	9,5 cm x 5 cm x 3 cm (3.8" x 2.0" x 1.25")
Weight	110 g (4 oz.)
Wireless Module Housing	Sealed urethane compound (water and chemical resistant, built to IP67 standard)
Wireless Module Mounting Method	Magnetic or adhesive
Certifications	FCC and Industry Canada 900 MHz non licensed ISM band, ETSI 868 MHz non licensed SRD band.

OPTIONS

Extended Sensor Temperature Range	-55 °C to +600 °C
Sensor Types	Strain, Crack, Vibration, Acceleration, Bolt Tension, Temperature
Extended Life Battery	Double the capacity
Certifications	Intrinsic Safety (Zone 0 or Class I, Division 1)

Note 1: Battery is rated for 50 million samples or 2 years of operation, whichever occurs first.
All specifications subject to change without notice

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