

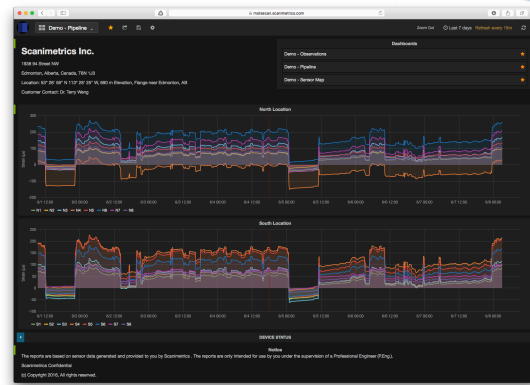


Advanced Technology Driving Change

WiTAP™ Asset Integrity and Condition Monitoring

## FEATURES

- Sealed and rugged devices for harsh environments
- Complete turn-key IoT solution
- Small size and easy installation
- Web based delivery of data and reports
- Structural integrity sensors include:
  - Strain, stress, fatigue, cracking, vibration
  - Tension, displacement, wear, thickness
  - Pressure, temperature, moisture
- Low power
- Integrated battery can power device for years
- Redundant data storage
- Network status (e.g. battery, RF link quality)
- Simple and intuitive web reports
- Intrinsically safe



## BENEFITS

- Fast and easy to install
- Highly reliable and available
- Monitor hard-to-reach places
- Non-intrusive to normal machine operation
- Available on desktop and mobile devices
- Worldwide remote access to sensor data

## APPLICATIONS

- Predict asset life
- Asset condition monitoring
- Pipeline thickness and integrity
- Machine health
- Operator safety and training
- Compliance

## GENERAL DESCRIPTION

Scanimetrix provides a complete industrial Internet of Things (“IoT”) solution including wireless hardware and data analysis, for assessing structural integrity and predicting asset life and failure. The system measures strain, cracking, tension, vibration, displacement, thickness, wear and other parameters of moving and stationary equipment. The data is aggregated from the sensor network to the Scanimetrix’ MoteScan™ cloud, analyzed and made available through a web application. The asset integrity reports are used to improve safety, lower life-cycle cost, increase productivity and improve regulatory compliance. The products work in extreme environmental conditions for applications harsh environments such as open pit and underground mining, on shore and off shore production of oil and gas, wind energy production, pipeline integrity and public safety. The products have been used in Canada, the United States, Mexico and Chile.

Scanimetrix’ Wireless Monitoring System provides a turn key web based measurement system with wireless data acquisition. It combines a sensor network of “WiTAP™ Motes” which acquire data and transmit the data to an internet gateway. Data is streamed wirelessly to the Scanimetrix’ MoteScan™ Cloud. The WiTAP™ motes can be mounted either magnetically or attached with an adhesive. The WiTAP™ devices incorporate a battery, eliminating the need for an external power supply.

For more information on Scanimetrix’ products, please contact:

Address: 9468 51<sup>ST</sup> Avenue NW, Edmonton, AB Canada T6E 5A6

Website: [www.scanimetrix.com](http://www.scanimetrix.com) Email: [info@scanimetrix.com](mailto:info@scanimetrix.com)

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



## Advanced Technology Driving Change

## WiTAP™ Asset Integrity and Condition Monitoring

Once the WiTAP™ mote has been activated, it can be configured to provide years of continuous operation. The gateway can be located away from the WiTAP™ sensor network to receive the data being transmitted. The wireless WiTAP™ motes operate as a mesh network and can relay data between the internet 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 internet gateway.

Operators can be kept informed by email, text message, or web update when critical parameters are outside their normal operating range.

### STANDARD SPECIFICATIONS

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	2 years of continuous operation (See Note 1) 50 million samples
Modes of Operation	Real-time data display, unaccompanied alarming, data logging and data transmission
Sensor Types Supported	Passive resistive, active 4-20 mA, externally powered 0-5 V
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 Life Battery	Double the capacity
Sensor Types	Strain, Crack, Vibration, Acceleration, Tension, Temperature, UT
Certifications	Intrinsic Safety (Zone 0 or Class I, Division 1)

Note 1: Battery is rated for 50 million samples or 2 year of operation, whichever occurs first.

All specifications subject to change without notice

For more information on Scanimetrix' products, please contact:

Address: 9468 51<sup>ST</sup> Avenue NW, Edmonton, AB Canada T6E 5A6

Website: [www.scanimetrix.com](http://www.scanimetrix.com) Email: [info@scanimetrix.com](mailto:info@scanimetrix.com)

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