Features

· Lossless & Time Synchronized Data Collection
· Scalable Network Architecture
· Low Power for Extended Battery Operation
· Miniaturized Packaging
· SensorConnect & SensorCloud Software

Applications

· Test & Measurement
· Condition-Based Monitoring
· Structural Health Monitoring
· Environmental Monitoring
· Control Systems

System Configuration

Input Sensors   Sensor Nodes   Gateways   Software

Measured Parameters

· Vibration
· Temperature
· Strain
· Torque
· Pressure

Wireless Sensor Nodes

microstrain.com/wireless

Featuring LXRS® lossless protocol, our wireless nodes enable simultaneous high-speed sensing and data acquisition from multiple inputs as part of a scalable network. They are ideal for condition-based monitoring, structural health monitoring, and test & measurement. A network of wireless nodes can be synchronized to ±32 microseconds. Most nodes offer continuous, burst, and event-triggered sampling. The following are just a few of the many nodes LORD MicroStrain offers, along with OEM versions.

G-Link®-200

WIRELESS ACCELEROMETER NODE

· On-board triaxial accelerometer
· User-configured burst sample rates up to 4 kHz

V-Link®-200

8-CHANNEL ANALOG INPUT NODE

· Four differential & four single-ended analog inputs, plus internal temperature sensor
· User-configured sample rates up to 4 kHz (continuous), 8 kHz (burst)

Torque-Link®-200

WIRELESS TORQUE SENSOR

· Rugged, easily installed custom-fit ABS clamshell housing
· User-configured sample rates up to 1024 Hz

G-Link®-200-OEM	SG-Link®-200-OEM	TC-Link®-200-OEM
VIBRATION	**STRAIN**	**TEMPERATURE**
3-axis accelerometer for vibration, tilt, and impact applications.	2-channel analog input node for precise measurement of strain gages, load cells and pressure transducers.	1-channel temperature node. On-board CJC and calibration for use with a thermocouple, RTD or thermistor.

LORD SENSING
MicroStrain

Our wireless gateways coordinate and maintain wireless transmissions across a network of wireless sensor nodes via included Node Commander® software. Most gateways are available with a variety of outputs, including USB, RS-232, CAN, Ethernet, and analog and can easily tie into a PC, PLC, DAQ, or into our SensorCloud™ software. A MIL-STD-810F/461E option is also available.

WSDA®-2000
WIRELESS SENSOR DATA AGGREGATOR
· Network gateway
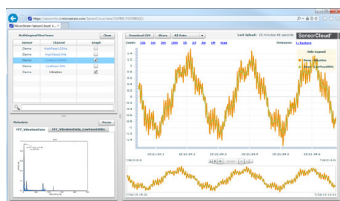· SensorCloud
· LXRS/LXRS+ compatible.

WSDA®-200-USB
WIRELESS USB BASE STATION
· USB connection with either internal or external antenna
· LXRS/LXRS+ compatible

SensorCloud™ sensorcloud.com

SensorCloud™ is a unique web-based, remotely-managed, and globally-accessible platform for sensor data storage, visualization, alerts, and analysis. It leverages powerful cloud-computing technologies to provide excellent data scalability, rapid graphing, and user-programmable analytics.

SensorCloud™
CLOUD-BASED DATA MANAGEMENT
· Securely upload sensor data from any web-based source
· Navigate through massive amounts of data, and quickly zero in on key points
· Create actionable email and SMS alerts
· Configure, view, and record high-speed data streams in real-time

Also available from LORD Sensing-MicroStrain

Inertial Sensors
microstrain.com/inertial
Miniature sensors for orientation, heading, attitude, position, and velocity. IMU, AHRS, and GNSS/INS sensors available, including tactical-grade and ruggedized options.

Displacement Sensors
microstrain.com/displacement
Contact sensors (sub/microminiature, gauging/non-gauging), non-contact sensors, and signal conditioners for measuring highly precise data where not previously possible.

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