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

Measured Parameters
- Torque
- Vibration
- Pressure
- Temperature
...more

System Configuration

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-LXRS®
WIRELESS ACCELEROMETER NODE
- On-board triaxial accelerometer
- User-configured burst sample rates up to 4 kHz

V-Link®-200-LXRS®
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®-LXRS®
WIRELESS TORQUE SENSOR
- Rugged, custom-fit ABS clamshell housing for easy installation
- User-configured sample rates up to 512 Hz (continuous), 4 kHz (burst)

G-Link2™-LXRS®
RUGGEDIZED WIRELESS ACCELEROMETER NODE
- On-board triaxial or external single axis MEMS accelerometer
- User-configured sample rates up to 512 Hz (continuous)
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.

WSDA®-1500-LXRS®
WIRELESS SENSOR DATA AGGREGATOR
∙ Ethernet and J1939 CAN interfaces, micro SD 4GB data storage
∙ Configurable for static IP, a DHCP-enabled LAN, or as a local datalogger

WSDA®-Base-LXRS®
WIRELESS USB BASE STATION
∙ Communications interface: analog, RS-232, or USB 2.0 @ 921,600 bps
∙ 1 Hz beacon provides ± 32 μsec node-to-node synchronization

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.

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.

Wireless Gateways
microstrain.com/wireless/gateways

Wireless Sensor Data Aggregators
WSDA®-1500-LXRS®
∙ Ethernet and J1939 CAN interfaces, micro SD 4GB data storage
∙ Configurable for static IP, a DHCP-enabled LAN, or as a local datalogger

WSDA®-Base-LXRS®
∙ Communications interface: analog, RS-232, or USB 2.0 @ 921,600 bps
∙ 1 Hz beacon provides ± 32 μsec node-to-node synchronization

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.

Wireless USB Base Stations
WSDA®-Base-LXRS®
∙ Communications interface: analog, RS-232, or USB 2.0 @ 921,600 bps
∙ 1 Hz beacon provides ± 32 μsec node-to-node synchronization

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