

G-Link® SG-Link® SG-Link® OEM



Wireless Vibration and Strain Measurements with LabVIEW

Overview

MicroStrain's [G-Link® Wireless Accelerometer Node](#) is a high speed, triaxial accelerometer node capable of measuring acceleration and vibration with sample rates up to 4 kHz. It is available with standard ranges of +/-2g or +/-10g, and additional custom ranges available upon request.

MicroStrain's [SG-Link®](#) and [SG-Link® OEM Wireless Strain Nodes](#) are flexible sensing platforms that provide a differential input channel with programmable gain, programmable offset, and optional bridge completion, a single ended 0-3V analog input channel, and an on-board temperature sensor. The combination of the two input channels supports a wide range of Wheatstone bridge and analog sensors including strain gauges, displacement sensors, load cells, torque transducers, pressure sensors, accelerometers, geophones, temperature sensors and inclinometers.

All three nodes can transmit data in real time to a USB or RS-232 Base Station, or log data on-board using 2MB of non-volatile flash memory. The data can be accessed using an open API that is platform and language independent. The API is complemented by a free downloadable SDK that provides programming examples showing how to configure the nodes and collect data.

National Instruments®' [LabVIEW](#) is a graphical programming environment used by engineers and scientists to develop sophisticated measurement, test, and control systems using intuitive graphical icons and wires that resemble a flowchart. LabVIEW offers unrivaled integration with thousands of hardware devices and provides hundreds of built-in libraries for advanced analysis and data visualization. The LabVIEW platform is scalable across multiple targets and operating systems.

MicroStrain and National Instruments have joined to offer their customers standard LabVIEW Drivers for the G-Link®, SG-Link®, and SG-Link® OEM. These drivers facilitate acquisition of the G-Link®, SG-Link®, and SG-Link® OEM data using the MicroStrain API and connect to the entire suite of LabVIEW routines including waveform graphs, analysis functions, 3D visualization tools, filtering, data storage, etc. Further integration of the G-Link®, SG-Link®, and SG-Link® OEM data with other data streams becomes easy using LabVIEW's threading, parallel processing and time synchronization routines.

Links to LabVIEW Drivers

- [Download G-Link LabVIEW Drivers](#)
- [Download SG-Link LabVIEW Drivers](#)
- [Download SG-Link OEM LabVIEW Drivers](#)



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