



Our Products Include:

- Load Cells
 - Custom
 - High Capacity
 - Multiaxes
 - Underwater

- Torque Sensors
 - Custom Torque
 - OEM
 - High Capacity
 - Underwater

Calibration Kits

**Our In-House and
Field Services Include:**

- In-House Services
- Sensor Design
 - Calibration and Gaging Services

- Field Services
- Measurement of torque and horsepower in rotating equipment
 - Stress/Strain Measurements of Plant Components
 - Measurements in Harsh Environments
 - MOV and AOV Strain Gage Instrumentation
 - Measurement of Thrust and Torque on Valves and Rotating Equipment
 - Structural Integrity Tests (SITs)
 - Permanent and Temporary Monitoring Systems
 - Design and Manufacture of Custom Sensors

Our measurement services are used to quantify operating parameters, aid with diagnostics and preventive maintenance, and troubleshoot causes for equipment failure.

Sensing Systems specializes in conducting measurements and manufacturing sensors to operate in harsh environments such as:

- High Temperature
- Low / Cryogenic Temperature
- Underwater / High Humidity
- High Magnetic Fields
- Chemical / Corrosive

Sensing Systems offers a wide range of data acquisition systems specifically tailored to fulfill the requirements of any monitoring application. Monitoring and data acquisition systems vary in scope from very simple to very complex installations including hundreds of measurements.

Sensing Systems designs sets up and installs monitoring systems of any size and complexity. We install sensors, signal conditioning, software and setup the complete system to acquire, store, save, analyze and display measurement data. We also install communications hardware and software to allow any data acquisition system to communicate and transfer data with a remote computer. Our experience and relationships with data acquisition manufacturers allow us to assemble, setup and install the best monitoring system for the application.

Computer Based Data Acquisition Systems

Sensing Systems utilizes state of the art computer based data acquisition systems. The equipment can sample at rates as low as once per day and up to 1,000,000 samples per second. Data may be acquired and submitted in different formats for further review and analysis by our customers. Filtering may be performed during acquisition or digitally following data acquisition. Data analysis such as rainflow may be performed real time by our equipment.

Sensing Systems provides turnkey systems to accomplish any desired measurement task including acquisition, storage, transmission, display and analysis.

Signal Conditioning Equipment

Signal conditioning equipment is used to convert low level signals from sensors to high level signals for input into the acquisition system. Signal Conditioning equipment configurations are optimized on the basis of number of measurements in the test program, distance between sensors and equipment, required sampling rates, available power and environmental considerations.

Sensors

Sensing Systems installs any type and number of sensors. The sensors may include those manufactured by Sensing Systems or by any other

CONTACT US FOR YOUR CUSTOM APPLICATIONS

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manufacturer. The following is a sampling of the type of sensors installed by Sensing Systems with monitoring and data acquisition systems:

- Strain
- Stress
- Temperature
- Pressure
- Displacement
- Torque
- Power
- Force
- Voltage, Current, Resistance
- Soil Pressure

All of our sensors are capable of communicating or interfacing with computer based data acquisition systems. Sensing Systems provides the hardware (i.e. A/D cards, "black boxes") and acquisition software to interface any sensor to PC based systems. We can also interface sensors from other manufacturers to operate with our data acquisition systems.

Permanent Monitoring Systems

Sensing Systems installs permanent monitoring systems in the field or in the laboratory. Implementation, planning and installation of permanent systems require a clear understanding of the project objectives. Data acquisition equipment selected for permanent systems usually incorporates communications capabilities using telephone connections or wireless systems for downloading data to computers at the customer facilities.

Our acquisition systems have been left to operate unattended for years at a time while being able to download data to a remote computer using telephone lines. This setup is especially desirable when the location of the monitoring equipment is in a remote or inaccessible location.

Portability

Many applications require that testing be performed on a moving platform such as automobiles, bicycles, park rides, etc. The test planning and execution phases must pay special attention to power requirements, acceleration levels and test duration to ensure a successful outcome. Sensing Systems' equipment and procedures support such testing.

Data Loggers

Sensing Systems has setup and interfaced data loggers to all types of sensors for continuous data acquisition and monitoring of test and process variables. The data loggers we use are capable of communicating with computers either directly or through telephone or internet links when installed in remote locations.

Technical Assistance

Sensing Systems engineers will analyze your project requirements and recommend a monitoring or data acquisition system to accomplish your objectives.

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