



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 has been providing products and services to the construction and infrastructure industry since its inception. We perform measurements and install sensors to monitor parameters critical to the health and well being of buildings, bridges, tunnels and other structures during and after construction. Typical measurements include stress, strain, vibration, temperature, deflection, displacement and tilt. Sensing Systems personnel have performed over thirty Structural Integrity Tests in Containments buildings around the United States.

Sensing Systems has developed special sensors to be used in the construction industry for field projects where no existing device is commercially available. Examples include soil pressure sensors to measure the pressure applied by settling or moving soil over time. Our "Sister Bar Sensors" are reinforcing bars instrumented with strain gages to measure strain/stress in reinforced concrete structures over time. In several projects we have removed and instrumented existing components, calibrated them in the laboratory and re-installed them prior to field testing.

Accuracy

The accuracy of field measurements varies according to the sensors being used. For most sensors that have been calibrated in the laboratory and installed in the field, accuracies in the range of 0.1 % to 1 % of full scale are typical. Strain and stress measurements require sensors such as strain gages which depend on the installation material for their accuracy. Field accuracies range from 3% to 5% of full scale.

Sensing Systems has pioneered the use of in-situ calibrations for strain gage measurements. We design and manufacture the required fixtures and apparatus to apply a known load to the structure and measure the corresponding output. Using this approach the accuracy may be improved to 0.5% to 1% of full scale.

Steel Industry

Sensing Systems has been providing products and services to the steel industry since its beginnings. We have designed, developed and manufactured special sensors to measure force and torque in steel mill operations. We have manufactured and repaired High Capacity Load Cells used to setup rolling mills and performed Torque & Horsepower Measurements to monitor dynamic torque occurring in rolling mills. We have conducted Vibration Measurements and performed Strain Gaging Services to troubleshoot and diagnose equipment problems occurring in all stages of steel production.

Wood Processing Industry

Sensing Systems designs and manufactures load cells and torque sensors used in the Wood Processing industry. Our services are used in determining operating parameters and troubleshooting production and processing equipment. We manufacture load cells and electronics used in automated kilns to measure and control the drying rate of wood. Our custom load cells may be fitted in vehicles used for transporting wood to determine the weight of the product. Our torque sensors are used to monitor the efficiency of rotating equipment and torque and horsepower measurement services are used for preventive maintenance and troubleshooting malfunctioning equipment.

CONTACT US FOR YOUR CUSTOM APPLICATIONS

We will analyze the requirements of your application and provide a recommendation.

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