



**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 involved in hundreds of projects to determine the causes of equipment malfunction, inefficiency or failure. We install and monitor sensors to obtain real time measurements during equipment operation. We have pinpointed fatigue failure, dynamic stresses, misalignment, vibration, thermal stresses, insufficient cross sections and other reasons as the root cause for failure of structures and equipment.

We offer a full range of field testing services reaching all industry, government and educational sectors. We specialize in acquiring measurements used to determine operating conditions of equipment and structures. These measurements are used to diagnose problems, establish operating performance, determine compliance and recommend improvements. Our measurements include:

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

Excessive and erratic values of any of the measurements listed above may lead to malfunction and failure. Short and extended time histories provide valuable insight into the actual operating conditions of the equipment and processes being tested. These conditions are then analyzed to provide a course of action to solve the existing problem.

All sensors are installed in the field and connected to state of the art data acquisition systems. Our systems can acquire data at extremely high sampling rates using high quality signal conditioning and with filtering and analysis capabilities. The quantity of measurements may start at 1 and up to 500+ channels using all types of sensors.

Analysis of the measurements provides clues and answers to the causes of equipment malfunction, structural failure or degradation in performance. Trending of critical parameters is used to schedule critical maintenance, modify processes and avoid catastrophic failures.

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