



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

Strain Gaging Services

Sensing Systems personnel travel the world performing field strain gaging on machinery and structures of every size and in all environments. We discuss the requirements of the project with our customers and make recommendations related to the type of measurement, configuration, number of gages, location, bonding orientation, wiring, and environmental protection issues. Alternatively, we will perform all work following our customer's instructions and procedures.

Zero balancing instead of shunting is performed to maximize signal levels and each installation is waterproofed to ensure long term reliability. Cables are routed from the strain gages to signal conditioning and data acquisition equipment.

In-Situ Calibrations

In-situ calibrations consist of applying known loads to the instrumented part or component in the field. In-situ calibrations require the design and manufacture of fixtures based on the individual requirements of each project. Calibration adaptors / fixtures and NIST traceable load cells are used to apply known loads. These loads are correlated to the signal obtained from the strain gages to generate a calibration factor to convert raw data to engineering units.

