

# Strain Gage Services

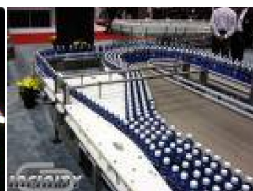
**T**eledyne LeCroy Test Services has a half-century-old reputation for high-quality, cost-effective strain-gage-based products and services, engineering consulting and technical support services.

## Strain Gage Installation and Calibration

Teledyne performs transducer class strain gage installation on customer elements. Full machine shop and fabrication capabilities are available for turnkey manufacturing. We make use of metal foil, platinum-tungsten and semi-conductor strain gages as required by each application. All installations are zero balanced, temperature compensated, and calibrated with N.I.S.T. traceability.

## Custom Transducer Design and Manufacture

Teledyne can design and build a custom strain gage based transducer to satisfy your unique requirements. Application challenges such as temperature extremes, marine environments, earth-orbiting conditions, multi-axis loading or unusual substrate materials are not a problem.

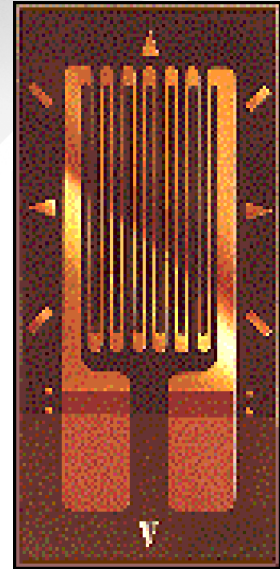


## Other Capabilities

- Injection molded covers for improved protection and esthetics.
- On-board signal conditioning providing voltage, current or digital output.

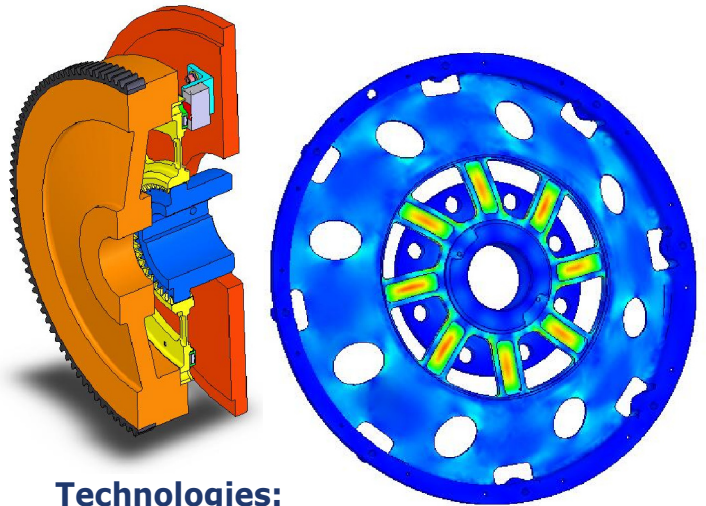
### Field Testing and On-Site Strain Gage Installation

In many instances, it is impractical to transport the part that will be tested. In these cases, Teledyne Instruments will provide trained personnel to conduct precision strain gage installations in the field and collect the pertinent data. Environmental protection for harsh conditions is typically not an issue. Applications include vehicle testing, ship hulls and propellers, bridges and dams as well as offshore platforms and other marine structures.



### Experimental Stress Analysis and Consulting

Teledyne offers analytical and experimental consulting services on stress/strain related projects. Our experienced engineers are often able to provide a solution path to an otherwise unsolvable problem. From equipment that resides on the ocean floor to orbiting structures such as shuttle bay loading arm, our engineers have successfully addressed a wide range of measurement-related challenges.



#### Applications:

- OEM and consumer products
- Product development testing
- Field testing and analysis

#### Technologies:

- Metal foil strain gages
- Platinum-tungsten strain gages
- Semi-conductor strain gages
- Temperature and pressure measurements
- Signal conditioning & Data acquisition and logging
- Wireless data transmission