

Acceleration



Angle & Tilt



Displacement



Flow



Force



Sensors

Custom Transducers

Strain Gages & Installation

Data Acquisition & Signal Conditioning

Wireless/ Telemetry

Vibration & Environmental Test

OEM & Contract Manufacturing

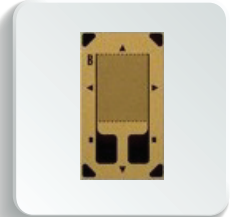
Pressure



Sound



Strain



Temperature



Torque



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Strain, Force & Torque



- Strain gages, bondable resistors, installation, accessories & training
- StrainSmart Systems, Signal conditioners, portable strain indicators
- PhotoStress Photoelastic stress analysis systems



- Custom force, torque & strain measurement:
- Custom strain gage installation on components
 - Field & lab services for strain measurement & data acquisition
 - Custom transducer design & calibration



- Load Cells & Force sensors
- Torque sensors: reaction, rotating & wireless
- Multi-axis transducers
- Instruments: Digital displays & hand-held meters
- Calibration systems & services



Force sensing bolts, clevis pins, load pins, & tension links.

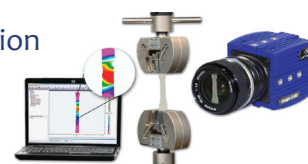


Hydraulic Testing Cylinders for Every Frequency and Range

- Compact hydraulic actuator construction
- High stability and rigidity
- High speeds and frequencies
- Efficient for varying test series



State-of-the-art, non-intrusive Digital Image Correlation (DIC) optical tool for shape, strain and deformation analysis of solid, granular and liquid subjects.



Pressure & level solutions for municipal, industrial, & process markets:

- Sensors for hostile service including slurries
- Submersible pressure & level sensors



Self-Aware™ Programmable inches-of-water sensors, for Industrial, Medical and HVAC applications. A new generation of differential pressure sensors, based on NimbleSense™ ASIC technology, which provides an alert mechanism of potential performance issues, before system-alarm incidents occur. Higher accuracy and turn-down ratios, lower total-error-band, with the industry's lowest noise floor.

Pressure

Sound, Vibration & Environmental Test



- Dynamic/Piezoelectric sensors: acceleration, force & pressure
- Impulse hammers, sensor signal conditioners, & sensor cables
- Calibration Services for dynamic sensors from all manufacturers



GRAS

Sound
& Vibration

Specialists in high performance measurement microphones & related acoustic accessories for automotive, aviation & aerospace.



- Advanced vibration test equipment: Electro-dynamic shakers, slip tables, head expanders and multi-axis shakers.
- Environmental test chambers including: temperature, humidity, thermal shock, & altitude chambers.



Vibration test controls for electrodynamic & servo-hydraulic shakers:

- Test modes: Sine, Random, Shock, SoR, RoR, SRS, & more
- Features: Fatigue Damage Spectrum, Kurtosis, Field Data Replication, Transient Capture, & more



Gantner

instruments

Ethernet/EtherCAT-based data acquisition and control solutions (24-bit, 100kHz A/D per channel) for test cells, test labs, portable/in-vehicle, & stand alone/data-logger applications.



High performance data acquisition including:

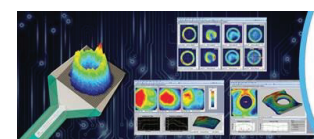
- Synergy multi-mode systems: recorder, scope, spectral, modal, & combustion analyzer
- Echelon in-vehicle DAQ: I/O, CAN, GPS, & video. IP-68



- StrainSmart® high performance data acquisition instrument utilizing strain gages and related sensors for stress analysis testing.
- High-speed, high-channel count signal conditioning & data acquisition solutions for aerospace, military, research testing applications.



Thin-film tactile pressure & force measurement for gaskets, seals, grip/ergonomics, seating/bedding, brakes, tires, roller-nip & many other applications.



Data Acquisition

Pressure

OEM/Custom Sensors & Contract Manufacturing



ADVANTAGE COMPONENTS INC
ENGINEERING QUALITY CONNECTIONS

Custom manufacturer of wire harnesses, interconnects, cable & wire assemblies including over-molding.



FIBOS
Advanced Optical Measurements

Fiber Bragg Gratings (FBGs) and optical sensor products including temperature, strain, pressure, vibration, tilt and displacement in addition to other custom sensors.



HITECSENSORS
A HUMANETICS COMPANY

Custom OEM force, pressure & torque

- Sensor design & manufacturing
- Amplifiers & integrated electronics
- OEM transducer manufacturing



mars
INTERNATIONAL

Global Contract Manufacturers and Product Design Engineers:

- Designers and manufacturers of electrical and mechanical assemblies
- Supply chain, Quality, and Project Management



Flow



Badger Meter
Cox
Turbine Flow Meters

Flow meters: Turbine, Coriolis, magnetic, positive displacement, oval gear, & more.

- COX precision turbine flow meters for gases & liquids
- FLOW DYNAMICS NVLAP flow calibration services



TECAT
PERFORMANCE SYSTEMS

The smallest, lightest, most power efficient, wireless measurement systems for torque, acceleration and other sensing application.



Memantracourt
Advanced Intelligent Instrumentation

- Wireless telemetry
- Strain gage amplifiers & signal conditioners
- Indicators & digital display electronics



Temperature



BLAZE
TECHNICAL SERVICES, INC.

Thermocouples: general purpose, hand-held, RTD, and industrial probes. In addition to our standard products, we can also custom design and build probes to your specifications.



STATUS
INSTRUMENTS

- Temperature transmitters: 4-20mA, HART, & wireless
- signal conditioners, digital indicators, & closed-loop controllers for temperature applications



innkeeper

Sequential Logic Controller providing flexible, programmatic control of motors, solenoids, relays, heaters



OMS
Optical Measurement Systems

Non-contact vibration measurement instrumentation & engineering services. Single point & scanning laser vibrometer systems.



Displacement



Sensor Source Lasers

- High-accuracy position, thickness, & surface measurements



Non-contact capacitive displacement sensors, gap sensors, bore gauges, parallelism and density sensors with matching capacitance amplifiers, data acquisition systems, linearization & display software.



- LVDT displacement transducers for all applications
- Signal conditioning, amplifiers & digital displays



Wireless/Telemetry

Servo-Control/ Special Test