



Applications Specialists for Sensors,
Data Acquisition, Instrumentation,
Test Equipment &
Contract Manufacturing

Acceleration



Angle & Tilt



Displacement



Flow



Force



Sensors

Custom Transducers

Strain Gages & Installation

Data Acquisition & Signal Conditioning

Wireless/ Telemetry

Vibration & Environmental Test

OEM & Contract Manufacturing

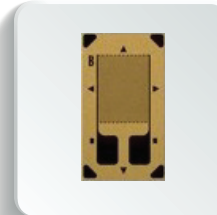
Pressure



Sound



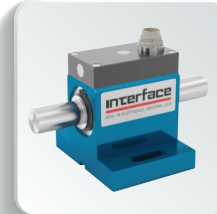
Strain



Temperature



Torque



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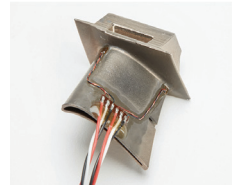
Strain, Force & Torque



- 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.

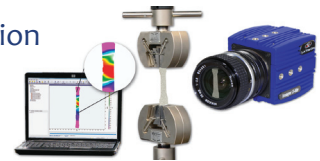


Hydraulic Testing Cylinders for Every Frequency and Range

- 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:

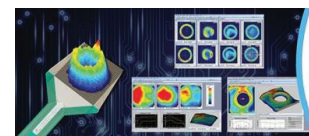
- Synergy multi-mode systems: recorder, scope, spectral, modal, & combustion analyzer
- Echelon in-vehicle DAQ: I/O, CAN, GPS, & video. IP-68



- 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 HUMANNETICS 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.



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



Servo-Control/ Special Test



FORCE & TORQUE TEST SOLUTIONS

- Motorized Material Testing for physical strength properties testing
- Motorized Product Testing Stands for static/monotonic force or torque testing



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



Capacitec

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



Precision Products / Measuring

Eddy current non-contact position and displacement sensors



Wireless/Telemetry



TECAT
PERFORMANCE SYSTEMS

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



Advanced Intelligent Instrumentation

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

