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# Acceleration & Vibration



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



Vibration test controls for electrodynamic & servo-hydraulic shakers:

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



Designer and manufactures vibration sensors & monitoring systems.  
Non-contact vibration measurement



Advanced vibration test equipment:  
Electro-dynamic shakers, slip tables, head expanders and multi-axis shakers.



- Point-lasers & 2D/3D line scanners (triangulation & time-of-flight technology)
- Confocal chromatic displacement measurement systems
- Hi-accuracy position, thickness, & surface measurements



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



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



Custom force, torque & strain measurement:

- Custom strain gage installation on components
- Data acquisition & field instrumentation services
- Custom transducer design & calibration
- OEM transducer manufacturing



# Displacement

# Force

Flow



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

- COX precision turbine flow meters for gases & liquids
- EXACT dual rotor turbines
- FLOW DYNAMICS NVLAP flow calibration services
- High precision flow meter calibration systems



Pressure

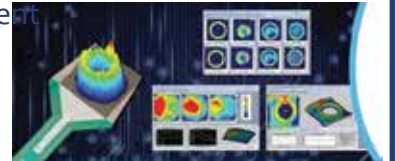


Pressure & level solutions for municipal, industrial, & process markets:

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



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



Data Acquisition



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 stand-alone DAQ: Rugged & portable



High-speed, high-channel count signal conditioning & data acquisition solutions for aerospace, military, university, & other research testing applications.



StrainSmart® high performance data acquisition instrument utilizing strain gages and related sensors for stress analysis testing.



Wireless



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



# OEM Sensors/Custom

## HITEC Sensor Solutions

- Custom OEM force, pressure & torque
- Sensor design & manufacturing
- Amplifiers & integrated electronics
- OEM transducer manufacturing



## AeroSense

Manufacturer of force sensors & other strain-gage based sensors, specializing in custom OEM applications for aircraft applications including sensors for flight controls, braking, steering, and fuel systems.

## BYTRAN INSTRUMENTS, INC.

- Dynamic/Piezo-electric sensors: acceleration, force, & pressure
- Health Monitoring Systems (HUMS) accelerometers
- Calibration Services for dynamic sensors from all manufacturers



## BAYSTAR

OEM piezoresistive silicon technology pressure sensors for medical, industrial, & commercial applications



## POS & FA Microsystems, Inc.

- OEM MEMS-based thermal mass air flow sensors & modules
- Pirani Miniature Vacuum Sensors



# Contract Manufacturing

## ACI ADVANTAGE COMPONENTS INC

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

## INSOURCE TECHNOLOGIES, INC.

Full service "concept-to-production" electro-mechanical engineering & manufacturing firm: Microprocessor programming, circuit board design & assembly, wire-harnesses, cables & final product assembly.

# 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



## HEATERS & CONTROLS UT

- OEM electric heaters : cartridge, band, mica band, ceramic band, polyimide, silicon rubber, pump line, cable, hot runner, nozzle, strip, finned strip, & cast aluminum
- SSR & SCR power relays and PID temperature controls



# Strain/Stress

## MICROE MEASUREMENTS A VPG Brand

- Micro-Measurements strain gages, bondable resistors, installation, accessories & training
- StrainSmart® systems, signal conditioners & portable strain indicators
- PhotoStress photoelastic stress analysis systems



## HITEC Sensor Solutions

- Strain gage & sensor installation services
- Field & lab services for strain measurement & data acquisition
- Contract services for sensor design
- OEM transducer manufacturing



## Sensor Developments Inc.

- Designer and manufacturer of custom , load/force & torque sensors.
- ISO-17025 certified force & torque calibration services



## LAVISION FOCUS ON IMAGING

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



## LUNA

Fiber-optic based strain & temperature measurement specializing in aerospace, automotive, defense, and composites industries.



# Signal Conditioning

## mantracourt Advanced Intelligent Instrumentation

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



# Test

## AERODYN ENGINEERING

Testing, instrumentation, & measurement solutions. Field test services sensor application & instrumentation. Designing & configuring data acquisition systems, recording/reducing data, & writing test reports.

## Test Smart

Environmental test chambers including: temperature, humidity, thermal shock, & altitude chambers.



# Tilt

## Sherborne Sensors ...the first choice in precision

Precision inclinometers & tilt sensors for the measurement of horizontal & vertical angular inclination for OEM & end-user applications in the aero, defense, industrial, & test markets

