

Acceleration



Angle & Tilt



Displacement



Flow



Force



Sensors Custom Transducers

Strain Gages & Installation

Data Acquisition & Signal Conditioning

Wireless/ Telemetry

Vibration & Environmental Test

OEM & Contract Manufacturing

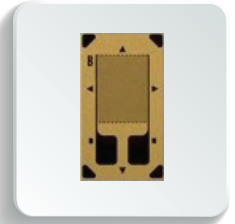
Pressure



Sound



Strain



Temperature



Torque



Jamie Janczak
Field Applications Engineer
JamieJ@stresshq.com
(608) 345-7918

Customer Service

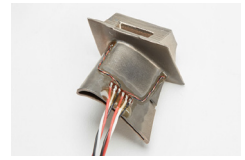
Jessica King (330) 734-8508
Jessica@stresshq.com
Diane Haak (330) 403-4100
Diane@stresshq.com
Amanda Schlagheck (330) 777-3315
amanda@stresshq.com

Strain, Force & Torque



Custom force, torque & strain measurement:

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



ADVANCED FORCE MEASUREMENT

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



International Hydraulic Components

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



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

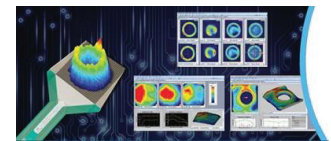
- Sensors for hostile service including slurries
- Submersible pressure & level sensors



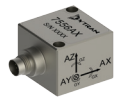
Self-Aware™ Programmable inches-of-water sensors, for Industrial, Medical and HVAC applications. A new generation of differential pressure sensors, based on NimbleSense™ ASIC technology, which provides an alert mechanism of potential performance issues, before system-alarm incidents occur. Higher accuracy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



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

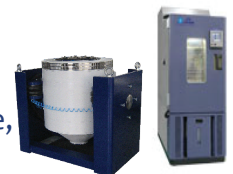


- Dynamic/Piezo-electric sensors: acceleration, force & pressure
- Impulse hammers, sensor signal conditioners, & sensor cables
- Calibration Services for dynamic sensors from all manufacturers



ADVANCING TECHNOLOGY IN DYNAMIC TESTING

- 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.



Pressure

Vibration & Environmental Test

Displacement



- Smart non-contact measurement solutions
- Laser distance Sensors
- Tilt Switches
- Inclination sensors
- Crane Collision Avoidance Systems



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



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



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 in-vehicle DAQ: I/O, CAN, GPS, & video. IP-68



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



Wireless



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



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



OEM/Custom Sensors & Contract Manufacturing



ADVANTAGE COMPONENTS INC
ENGINEERING QUALITY CONNECTIONS

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



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



Custom OEM force, pressure & torque

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



Global Contract Manufacturers and Product Design Engineers:

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



Servo-Control/ Special Test



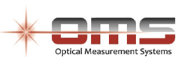
- Motorized Material Testing for physical strength properties testing
- Motorized Product Testing Stands for static/monotonic force or torque testing



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



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



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



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



Flow



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

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



- Vacuum gauge-tubes, gas/mass flow meters & instruments



Fluid & gas flow sensors, switches & safety cut-offs:

- Oil, gas, power, chemical
- High purity for semi-conductor, biomedical, & pharmaceutical



Temperature



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.



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

