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

Strain Gages & Installation

Data Acquisition & Signal Conditioning

Sensors

Wireless/Telemetry

Vibration & Environmental Testing

OEM & Contract Manufacturing

Customer Service
Nicole McInnis (330) 777-3315 Nicole@stresshq.com
Jessica King (330) 734-8508 Jessica@stresshq.com
Diane Haak (330) 403-4100 Diane@stresshq.com

Dave Ertel
Field Applications Engineer
Dave@stresshq.com
(513) 598-5488
• 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
- Field & lab services for strain measurement & data acquisition
- Custom transducer design & calibration

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

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

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

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

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

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

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

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<th>OEM/Custom Sensors &amp; Contract Manufacturing</th>
<th>Displacement</th>
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<tbody>
<tr>
<td><strong>Manufacturer of force sensors &amp; other strain-gage based sensors, specializing in custom OEM applications for aircraft applications including sensors for flight controls, braking, steering, and fuel systems.</strong></td>
<td><strong>Non-contact capacitive displacement sensors, gap sensors, bore gauges, parallelism and density sensors with matching capacitance amplifiers, data acquisition systems, linearization &amp; display software.</strong></td>
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<td><strong>Custom OEM force, pressure &amp; torque</strong></td>
<td><strong>•</strong> Point-lasers &amp; 2D/3D line scanners (triangulation &amp; time-of-flight technology) <strong>•</strong> Confocal chromatic displacement measurement systems <strong>•</strong> Hi-accuracy position, thickness, &amp; surface measurements</td>
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<td>• Sensor design &amp; manufacturing</td>
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<td>• OEM transducer manufacturing</td>
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<td><strong>Custom OEM Pressure Solutions</strong></td>
<td><strong>•</strong> LVDT displacement transducers for all applications <strong>•</strong> Signal conditioning, amplifiers &amp; digital displays</td>
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<td>• Pressure sensors: MEMs, MEMS isolated, Bonded Foil, &amp; Capacitive</td>
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<td><strong>Custom manufacturer of wire harnesses, interconnects, cable &amp; wire assemblies including over-molding.</strong></td>
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<td>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.</td>
<td><strong>The smallest, lightest, most power efficient, wireless measurement systems for torque, acceleration and other sensing application.</strong></td>
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<td><strong>•</strong> Wireless telemetry <strong>•</strong> Strain gage amplifiers &amp; signal conditioners <strong>•</strong> Indicators &amp; digital display electronics</td>
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<td>• Signal conditioners, digital indicators, &amp; closed-loop controllers for temperature applications</td>
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<td><strong>Environmental Testing</strong></td>
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<td>Environmental test chambers including: temperature, humidity, thermal shock, &amp; altitude chambers.</td>
<td><strong>Flow meters:</strong> Turbine, Coriolis, magnetic, positive displacement, oval gear, &amp; more. <strong>•</strong> COX precision turbine flow meters for gases &amp; liquids <strong>•</strong> EXACT dual rotor turbines <strong>•</strong> FLOW DYNAMICS NVLAP flow calibration services <strong>•</strong> High precision flow meter calibration systems</td>
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