

**AUTOMOTIVE
& TRANSPORTATION**



**STELLAR TECHNOLOGY
INCORPORATED**

Pressure, Load/Force/Torque, Displacement, and Temperature Sensors

stellartech.com

Transportation Solutions



Pressure Sensors

- Pressure Ranges from 1 to 100,000 PSI
- Absolute, Gage, True Gage, Differential, Vacuum, Barometric
- Accuracies to 0.05% FSO.
- High Frequency Response
- All Welded Stainless Steel (17-4, 15-5, Inconel, Monel, Hastelloy)
- mV/V, Analog or Digital Outputs (including RS232, RS485, CANbus)
- Internal Data Logger Versions
- ATEX, CSA Intrinsically Safe and Explosion Proof Certifications
- Comprehensive Calibration Records are Standard
- Engineered-to-Order Custom Designs

Load Cells, Force Sensors, Reaction Torque Sensors

- Load Ranges from Grams to 2 Million lbf
- Tension, Compression, and Tension & Compression
- Complete Selection of Standard and Special Configurations
- Constructed of Stainless Steel, Carbon Steel, or Aluminum
- Miniature and Subminiature Versions
- mV/V, Analog or Digital Outputs (including RS232, RS485, CANbus)
- Multiple Bridge Configurations
- Internal Data Logger Versions
- ATEX, CSA Intrinsically Safe and Explosion Proof Certifications
- Comprehensive Calibration Records are Standard
- Engineered-to-Order Custom Designs



Our Specialty...
**CUSTOM
ENGINEERING**



Sensors for Automotive and Transportation Applications

Stellar Technology's complete selection of pressure transducers/transmitters, load cells, force sensors, reaction torque transducers, temperature sensors, and LVDT displacement sensors provides test, measurement, and control solutions across a broad range of automobile, truck, off-road, locomotive, marine, military, recreational, and material handling applications. STI's engineering expertise, proven sensor technology, field experience, and manufacturing capabilities provide customers with high reliability sensors for this broad range of applications. Our engineering and manufacturing center in Amherst, New York, is uniquely designed to deliver both standard products and custom-engineered special products. Rely on STI to add value to your test and measurement solution.

Transportation Solutions



LVDT Displacement Sensors

- Stroke Ranges from ± 0.01 in. to ± 18.5 in.
- Linearities from 1% to 0.1%
- Spring Guided, Captive Guided, Free Unguided Armatures
- AC and DC Versions
- All Welded Stainless Steel
- Precision Gaging Units with Air Push Armatures
- Submersible Designs
- Subsea Versions Submersible to 7500 ft. of Seawater

Temperature Transducers and Transmitters

- Temperature Ranges from -320°F to $+750^{\circ}\text{F}$
- No Thermowell Required
- Customer Specified Probe Lengths
- All Welded Stainless Steel Construction
- Hermetically Sealed
- Dual Temperature and Pressure Configurations
- Analog and Digital Outputs (Including RS232, RS485, CANbus)
- Customer Specified Process Connections
- ATEX, CSA Intrinsically Safe Certifications

Our Specialty...
CUSTOM ENGINEERING



Automotive and Transportation Sensors For:

Engine Testing

- Engine Dynamometers
- Engine Diagnostics
- Diesel Injectors
- Fuel Rail
- Intake Air Flow
- Fuel Injection Systems
- Cooling System Testing

Vehicle Testing

- Chassis Testing
- Proving Ground Testing
- Under-the-Hood Testing
- Brake Systems
- Climate/Environmental Testing

Power Train Testing

- Engine Dynamometers
- Transmission Dynamometers
- Axle and Half-Axle Testing
- Engine R & D
- Brake Testing
- Regulatory Testing and Certification

Components Testing

- Materials R & D
- Component Life-Cycle Testing
- Dimensional Inspection
- Fuel Pumps and Oil Pumps
- Braking Systems
- Shock Absorbers
- Hydraulic Systems
- Turbocharger Performance Tests
- Towing Components

Production Process Control

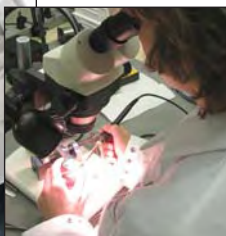
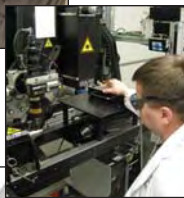
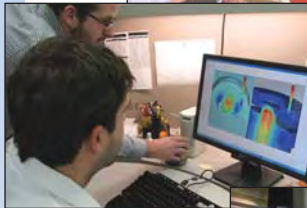
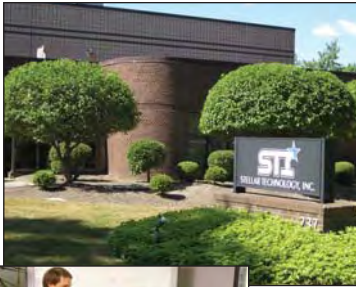
- Factory Automation
- In-Line Signature Analysis
- Material Handling Systems
- Metering and Dispensing
- Valve Guide and Seat Insertion
- Fluid Fill Systems
- Robotic Assembly
- End-Of-Line Test Stations
- Stamping Presses
- Leak Testing
- Quality R & R
- Incoming Inspection

Call: **716.250.1900**



Capabilities

Stellar Technology designs and manufactures a comprehensive offering of pressure transducers/transmitters, load cells, force sensors, torque transducers, temperature transmitters, and displacement sensors used in test and measurement applications across a wide range of industry sectors including aerospace, oil and gas, marine/oceanographic, automotive, medical, industrial automation, geophysical, power generation and many more.



Why Stellar Technology? Whether it's an engine test, component reliability test, production line test, or quality assurance evaluation, what causes automotive and transportation specialists to choose Stellar Technology sensors for their application solutions?

One word: Capabilities.

Stellar Technology combines sales capabilities, engineering capabilities, manufacturing capabilities, and service/support capabilities into one focused business objective:

Provide the customer with the optimum sensor solution.

Sales Capabilities:

- Experienced technical sales professional located in your area
- Direct link to STI design engineers
- Knowledgeable inside sales engineers
- Complete pre-sales application review process
- Facilitate technical Lunch & Learns at customer's site

Engineering Capabilities:

- Design engineers with years of practical sensor application experience
- Specialists in mechanical, electronic, and software design
- Innovative design and simulation tools
- ISO9001 registered documentation and control
- Work directly with customer's engineers
- Creative solution providers

Manufacturing Capabilities:

- Complete vertical integration (raw material through final calibration)
- 18 CNC machines (up to 8-axis)
- Wire and probe EDM machining
- Laser and TIG welding
- Ultrasonic cleaning
- Micro assembly
- Automated pressure compensation and calibration
- 5 load cell calibration systems (to 600,000 lbf)
- 1,000,000 inch-lbf reaction torque calibrator
- High-reliability/traceability assembly and test area
- Comprehensive inventory of raw materials
- Finished goods inventory programs (standard and customer-specific)

Service/Support Capabilities:

- Complete repair and recalibration (including non-STI manufacturers)
- Rapid-response on-site technical field support
- Ready access to regional sales offices
- Order status and expediting
- Direct access to STI's design engineers
- 24 hour web access to technical manuals

Your Application-Solution SourceSM

Find More Information at:
stellartech.com

Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

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