

**INDUSTRIAL  
AUTOMATION**



**STELLAR TECHNOLOGY  
INCORPORATED**

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

[stellartech.com](http://stellartech.com)

# Industrial Automation 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
- 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
- Comprehensive Calibration Records are Standard
- Engineered-to-Order Custom Designs



## Sensors for Industrial Automation

The modern industrial environment is definitely sensor-centric— from the automated factory floor to sophisticated MRO equipment designed to support production. Stellar Technology's complete selection of pressure transducers/transmitters, load cells, force sensors, reaction torque transducers, temperature transmitters, and LVDT displacement sensors are vital components in the test and measurement systems required to support our customers' continuous efforts to improve quality, productivity, safety, customer service, and competitive position. STI's engineering expertise, proven sensor technology, field experience, and manufacturing capabilities provide customers with high reliability sensors for their diverse factory automation 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 industrial automation solutions.



## LVDT Displacement Sensors

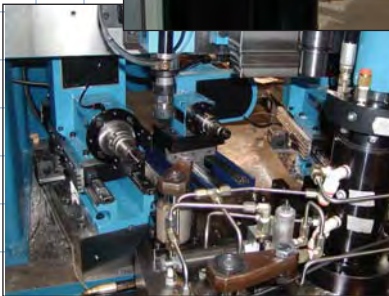
- Stroke Ranges from  $\pm 0.01$  in. to  $\pm 18.5$  in.
- Linearities from 1% to 0.1%
- Spring Guided, Captive Guided, Free Unguided Armatures
- AC and DC Versions
- All Welded Stainless Steel
- Precision Gaging Units with Air Push Armatures
- Submersible Designs

## Temperature Transducers and Transmitters

- Temperature Ranges from  $-320^{\circ}\text{F}$  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



Our Specialty...  
**CUSTOM ENGINEERING**



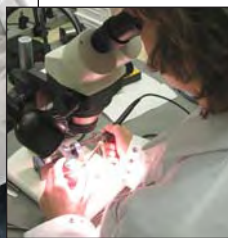
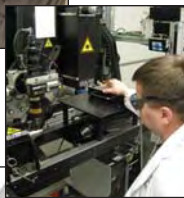
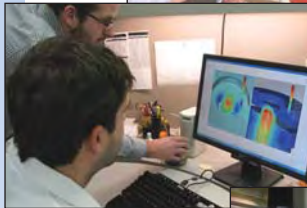
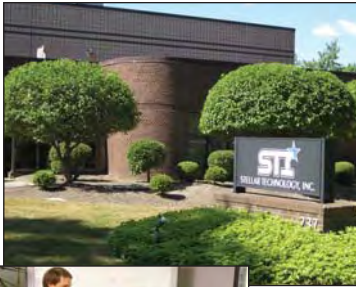
## Industrial Automation Sensors For:

- Industrial Robotics
- Conveyor Systems
- Hydraulic and Pneumatic Actuators
- Metal Stamping Presses
- People-assist Handling Systems
- Overhead Conveyors
- Material Handling Mechanisms
- Signature Analysis Measurements
- Fastener Torque Monitoring
- Metering and Dispensing Systems
- In-line Inspection Stations
- Component Assembly and Testing
- Metrology Lab Testing and Validation
- Quality R and R Assessments
- Environmental Test Chambers
- Air Compressors
- Safety Monitoring Systems
- Heat Treating Systems
- Assembly Transfer Systems
- Machine Tools

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 a fully automated assembly robot, a synchronized assembly conveyor, or a single purpose inspection station, what causes factory and industrial design engineers, technicians, and maintenance 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 Source<sup>SM</sup>**

ISO 9001



Find More Information at:  
[stellartech.com](http://stellartech.com)

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

237 Commerce Drive • Amherst, NY 14228 • USA

**Tel:** 716.250.1900 • **Fax:** 716.250.1909

**Email:** [info@stellartech.com](mailto:info@stellartech.com)