ALTERNATIVE ENERGY



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

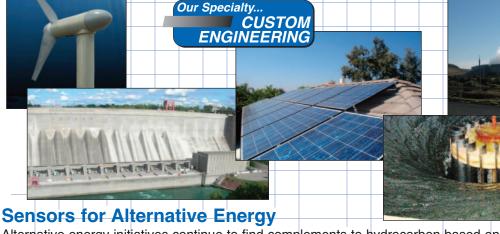


Pressure Sensors

- 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 R\$232, R\$485, CANbus)
- Internal Data Logger Versions
- Operating Temperatures to 450°F
- · Designs Submersible to 12,000 ft. Seawater
- Flush Diaphragm Models
- 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, R\$485, CANbus)
- Multiple Bridge Configurations
- Internal Data Logger Versions
- Operating Temperatures to 400°F
- Designs Submersible to 12,000 ft. Seawater
- Engineered-to-Order Custom Designs



Alternative energy initiatives continue to find complements to hydrocarbon based energy sources. Some of these programs are well established while others continue to explore approaches that provide innovative sources of energy. Stellar Technology's complete selection of pressure transducers/transmitters, load cells, force sensors, reaction torque transducers, temperature sensors, and LVDT displacement transducers provide sensors vital to both the development and implementation of these alternative energy technologies. From wind turbines to fuel cell production to power transmission systems, Stellar Technology'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 Stellar Technology to add value to your alternative energy 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
- **High Temperature Options**
- Subsea Versions Submersible to
- 7500 ft. of Seawater

Temperature Transducers and Transmitters

- Temperature Ranges from 320°F to + 750°F
- No Thermowell Required
- **Customer Specified Probe Lengths**
- All Welded Stainless Steel Construction
- · Hermetically Sealed

STT

- Dual Temperature and Pressure Configurations
- Analog and Digital Outputs
- (Including RS232, RS485, CANbus)
- Customer Specified Process Connections





Alternative Energy Sensors For:

- Fuel Cell Research and Development
- **Fuel Cell Production**
- Hydro-Current Framing Fluid Control Systems Large-scale Hydrogen Production Wind Turbine Transmission Monitoring

- Wind Turbine Lubrication Systems
- Geothermal Pumping Systems
- Proof-Of-Concept Testing and Validation
- Hybrid Battery Testing SWAC (Salt Water Air Conditioning)

Call: 716.250.1900

Pumping Systems

- Pollutant Remediation Systems Direct Energy Conversion Processes
- OTEC (Ocean Thermal Energy Conversion) Plants—(Pressure and Force Measurement for Pumps and Mooring Systems)

Hydraulic Systems Testing Testing and Fabrication of Thin Film Solar Cells

- Fuel Analyzers
- Handling Systems for Nuclear Fuel Rods

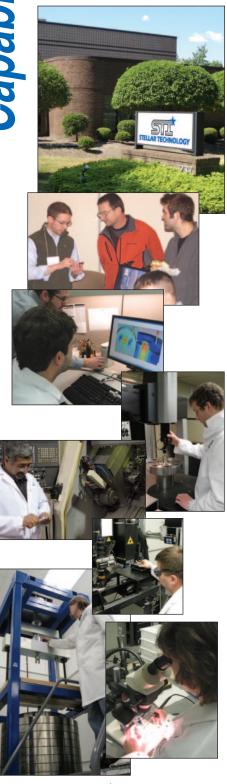
Hybrid Engine Testing Materials and Component Testing

Wave Slam





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? What causes specialists to choose Stellar Technology sensors for their application solutions?

One word: <u>Capabilities</u>.

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 Stellar Technology's 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 other manufacturers)
- Rapid-response on-site technical field support
- Ready access to regional sales offices
- Order status and expediting
- Direct access to Stellar Technology's design engineers
- 24 hour web access to technical manuals

Your Application-Solution Sources



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

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ISO 9001/AS9100