



## OIL & GAS

The energy market continues to face new challenges with deeper drilling, higher temperatures and higher pressures. TE Connectivity's (TE) sensor technologies with advanced electronics, materials, and design packages provide safe, reliable, and accurate data measurements—all while enduring some of the harshest application environments on earth. By combining application expertise and global hazardous location certifications, our broad portfolio of standard designs and custom packages are helping to improve performance and reliability for the oil & gas industry.



## SENSOR TECHNOLOGIES



Pressure



Temperature



Position



Level

## OIL & GAS APPLICATIONS

- Wellhead Instrumentation
- Gas Compression
- Offshore
- Pipeline Monitoring
- Storage Tanks & Level Measurement
- Sub Sea



## PRESSURE TRANSMITTERS



### AST4600

Constructed with a simple-yet rugged design, the AST4600 explosion-proof pressure transducer stands up to a variety of applications where price and performance are critical.



### AST4300/AST43LP

Certified for Class I Div 2 environments, the non-incendive pressure transducer can be designed for pressure up to 20,000 PSI.



### AST4000

This voltage pressure transducer is built using proprietary process and the latest CMOS sensor conditioning circuit to create a low cost, high performance transducer designed to meet the strictest requirements from OEM customers.



### AST4400

The AST4400 pressure transducer is rated for Class I Div 1 Intrinsically Safe Groups C, D when installed with an approved barrier.



### AST44LP

The AST44LP series is commonly utilized for low-pressure applications including tank level monitoring.



### AST4401

The AST4401 is the solution for pressure measurement in intrinsically safe areas. This pressure transducer can be configured in voltage and 4-20mA output signals.



### P900

These strain gauge pressure transducers are premium grade sensors that provide highly precise measurement of absolute, vented gauge, or sealed gauge pressures over wide temperature ranges.

## PRESSURE & TEMPERATURE SENSOR



### AST46PT

Constructed with a simple-yet-rugged design, the AST46PT Explosion-Proof Pressure Transducer stands up to a variety of applications where price and performance are critical.

## TEMPERATURE SENSORS



### BEARING SENSORS

The Tip Sensitive Bearing RTD Probe is a tubular sensor in which the sensing element is encased in a copper alloy tip. This allows for increased accuracy and sensitivity to temperature changes at the point of contact in bearings.



### STATOR SENSORS

The Stator RTD Sensor is a rectangular, flat, laminated sensors commonly called "Stator Sticks" because they are inserted between the coils in the stator of a motor.

## LEVEL SENSORS



### AST4500/AST4510

The AST4500 and AST4510 submersible pressure transducers are used for monitoring liquid level of water, fuel and oils in intrinsically safe areas with an approved barrier.



### AST4520

The AST4520 flush submersible liquid level sensor is the cost effective solution for level monitoring of turbulent tanks with viscous media.



### AST4530

The AST4530 submersible pressure transducer is constructed using PVDF material and a PTFE diaphragm.

## LINEAR POSITION TRANSDUCERS



### PT8101

The PT8101, using a high cycle plastic hybrid potentiometer, operates with any basic panel meter or programmable controller in factories and harsh environments requiring linear position measurements in ranges up to 60 inches.



### PT9232

The PT9232 delivers position feedback via RS232 serial communication to your data acquisition or controller system.



### HSTA/R

HSTA and HSTAR 750 series of 3/4 inch (19 mm) diameter AC-operated LVDTs are designed for a wide range of position measurement applications.



### CD375

The CD375 AC-operated LVDTs are small size contactless linear position sensors for both OEM and end user applications.

## INSTRUMENTATION



### LVC-4000

The EAZY-CAL™ LVC-4000 is a standalone signal conditioner, supporting a wide range of AC LVDTs, RVDTs, and VR half-bridges, while providing several choices of voltage, current, and digital RS-485 outputs.



### LVC-4500

The EAZY-CAL™ LVC-4500 is a standalone ratiometric signal conditioner, measuring the voltage difference divided by the sum  $(V_a - V_b) / (V_a + V_b)$ , supporting AC LVDTs and RVDTs with a constant sum of secondary voltages,  $(V_a + V_b)$ .

## POSITION SENSORS



### RT9420

The RT9420 provides rotational position feedback via 4...20 mA current loop signal.

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