

# SENSORS FOR OIL & GAS MONITORING

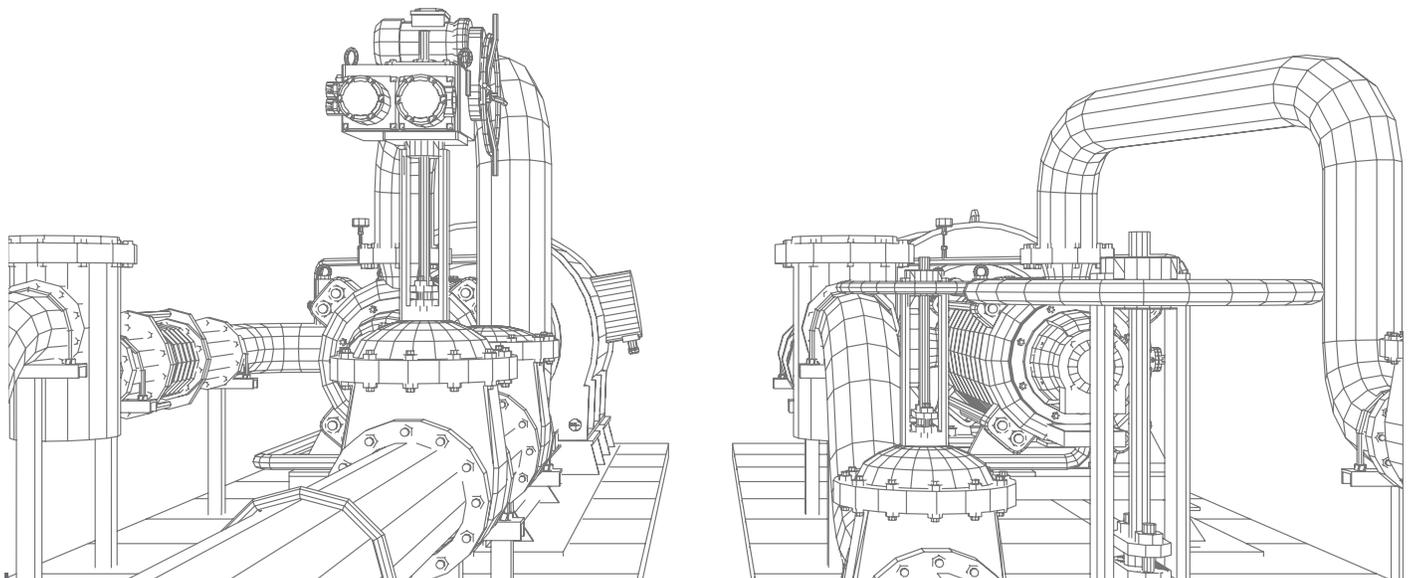
In the oil and gas industry, reliable sensors are essential for effective asset management, preventing equipment failure, reducing downtime, and improving safety. Our sensors are engineered for performance, certified for harsh environments, and fully encapsulated with IP6X, ATEX, and intrinsically safe designs. They withstand extreme conditions, giving you peace of mind and ensuring the reliable performance of your critical assets. Our sensors enable early detection of potential issues, allowing for proactive maintenance scheduling and cost-effective asset management. By providing accurate data and in-house calibration services, we ensure compliant and safe operations while optimizing efficiency. Trust TE Connectivity for robust sensors that fuel your oil and gas operations with reliability, cost savings, and regulatory compliance.

## SENSOR TECHNOLOGIES

 Vibration  Pressure  Oil Property  Liquid Level  Temperature

## EQUIPMENT APPLICATIONS

- Pipes and pipelines
- Pumps
- Compressors
- Heat exchangers
- Valves
- Separators
- Storage tanks
- Turbines
- Instrumentation and control systems
- Wastewater management equipment



# SENSORS FOR OIL & GAS MONITORING

## PRESSURE SENSORS

Sensor Model	Description	
69XXN	LoRaWAN® Wireless Pressure Sensors	
65XXN	Bluetooth® BLE 5.3 (Low Energy) Wireless Pressure Sensors	
M5601	Intrinsically Safe Wireless Microfused Pressure Transducer	
U5601	Wireless UltraStable Pressure Transducer	
D5601	Wireless Differential Pressure Transducer	
AST4300	Non-Incendive Pressure Transducer	
AST4400	Intrinsically Safe Pressure Transducer	
AST4600	Explosion Proof Pressure Transducer	
AST46PT	Explosion Proof Pressure Transducer	
AST4000	Industrial Pressure Transducer	
AST44LP	Low Pressure Intrinsically Safe Pressure Transducer	

## LIQUID LEVEL SENSORS

Sensor Model	Description	
AST4520	Submersible Liquid Level Pressure Transducer	
AST4530	Submersible Liquid Level Pressure Transducer	
AST4500/4510	Submersible Liquid Level Pressure Transducer	

## HUMIDITY SENSOR

Sensor Model	Description	
5911N	LoRaWAN® Wireless Humidity Sensor	
5511N	Bluetooth® BLE 5.3 (Low Energy) Wireless Humidity Sensor	

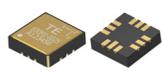
## TEMPERATURE SENSORS

Sensor Model	Description	
310 Series	Tip Sensitive Bearing RTD Probe	
410 Series	Tip Sensitive Bearing Thermocouple	
Haz Loc Bearing Tip Sensitive RTD Probe	Tip Sensitive increased safety RTD sensor	
300 Series	Epoxy Glass Laminated Stator RTD	
400 Series - Thermocouple (Point)	Stator Thermocouple	
Haz Loc Stator RTD Sensing Element	Increased Safety Wire Wound Stator RTD Sensor	
Haz Loc Thin Film RTD Sensing Element	Thin Film Sensing Increased Safety RTD Sensor	

## OIL PROPERTY SENSORS

Sensor Model	Description	
OPS3	Multi-Parametric Oil Quality Sensor	

## VIBRATION SENSORS

Sensor Model	Description	
8911N	Single Axis Wireless Vibration Sensor with LoRaWAN	
8931N	Triaxial Wireless Vibration Sensor with LoRaWAN	
8511N	Single Axis Wireless Vibration Sensor with Bluetooth	
8531N	Triaxial Wireless Vibration Sensor with Bluetooth	
820M1	Single Axis Piezoelectric Accelerometer	
830M1	Triaxial Embedded Piezoelectric Accelerometer	

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