



SENSORS FOR ROTATING EQUIPMENT CONDITION MONITORING

Implementing condition monitoring systems in industrial manufacturing operations can yield numerous benefits, including increased reliability, reduced maintenance costs, and minimized unplanned downtime. However, monitoring rotating equipment requires a unique approach and careful consideration, given the constant wear and tear and higher likelihood of failure. With our robust and reliable sensing solutions, TE Connectivity offers an essential part of condition monitoring for rotating equipment. Our engineers have expertise spanning 32 different sensor technologies across 14 sensor product types, providing fully encapsulated designs with intrinsically safe certification options for reliability, durability, and total application flexibility.

SENSOR TECHNOLOGIES

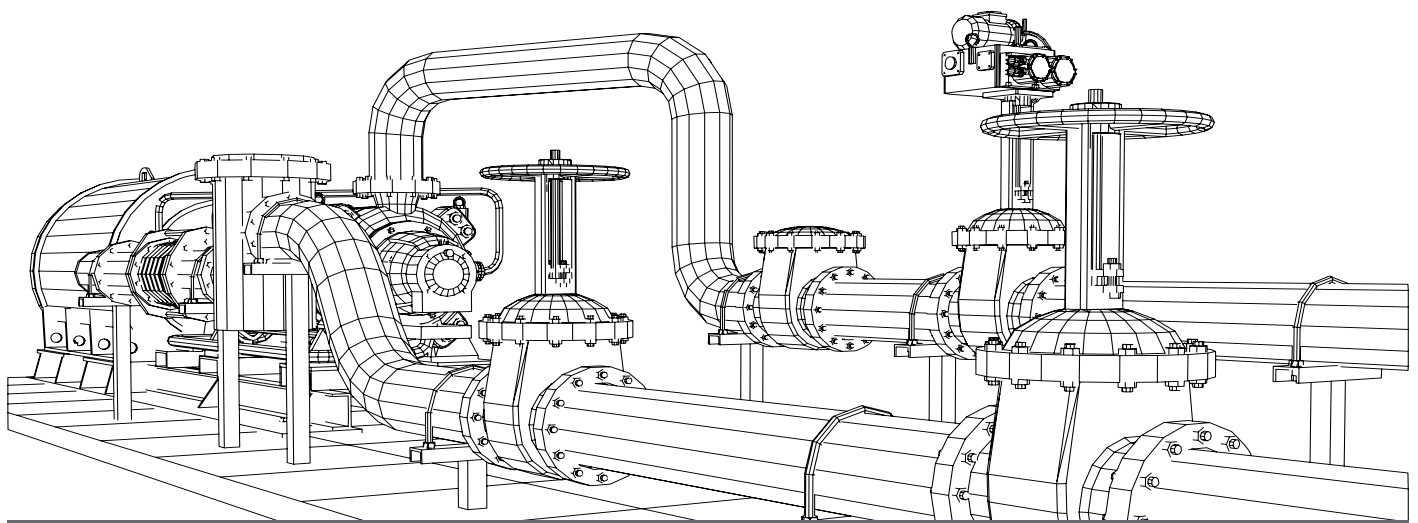
 Vibration  Temperature  Pressure  Oil Property

ROTATING EQUIPMENT APPLICATIONS

- Pumps
- Motors
- Gearboxes
- Compressors
- Turbines

TE ADVANTAGE

- Engineering breadth & depth
- Wireless and plug & play sensor offering
- Intrinsically safe designs for harsh environments
- Manufacturing scale
- Customization capability



SENSORS FOR ROTATING EQUIPMENT CONDITION MONITORING




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 Probe	
300 Series	Epoxy Glass Laminated Stator RTD Probe	
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 Element Increased Safety RTD 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	
805M1	Miniature Adhesive Mount Voltage Output Accelerometer	
820M1	Piezoelectric Board Mounted Accelerometer	
830M1	Triaxial Embedded Piezoelectric Accelerometer	

VIBRATION SENSORS

Sensor Model	Description	
8711	Industrial IEPE Accelerometer	
8811	IEPE Accelerometer with Lightning Protection	
8011	Hermetically Sealed IEPE Accelerometer	

PRESSURE SENSORS

Sensor Model	Description	
65XXN	Bluetooth® BLE 5.3 (Low Energy) Pressure Sensors	
69XXN	LoRaWAN® Wireless Pressure Sensors	
M5601	Wireless Microfused Pressure Transducer	
U5601	Wireless UltraStable Pressure Transducer	
D5601	Wireless Differential Pressure Transducer	
M3200	Compact Industrial Pressure Transducer	
MSP100	Pressure Transducer	
AST4300	Non-Incendive Pressure Transducer	
AST4400	Intrinsically Safe Pressure Transducer	
AST4600	Explosion Proof Pressure Transducer	

OIL PROPERTY SENSORS

Sensor Model	Description	
OPS3	Multi-Parametric Oil Quality Sensor	