# Sensei
## MACHINE VITALS


## MONITOR, PREDICT, PROTECT: MACHINE VITALS AT WORK

## Predictive Maintenance in Power Generation

Are you tired of spending countless hours on manual equipment inspections? Do unexpected breakdowns disrupt your operations and lead to costly downtime? Look no further! Machine Vitals™, part of Sensei® IIoT Network, is the solution for condition monitoring in the power generation industry.

### Overcoming Industry Challenges for Uninterrupted Operations

Machine Vitals is not just another monitoring tool - it's a game-changer in predictive maintenance. It provides real-time insights into critical machinery in the power generation industry. By utilizing advanced sensors and analytics, it detects potential issues before they lead to breakdowns, empowering reliability and maintenance managers to take proactive measures.

**Unparalleled Features for Optimal Performance**

With Machine Vitals, you can expect a comprehensive solution that addresses the unique challenges faced in the power generation industry. Here are some key features:

- **Elimination of Equipment Inspections:** Say goodbye to time-consuming manual inspections. Machine Vitals provides continuous monitoring, eliminating the need for frequent physical checks of equipment.
- **Postmortem Failure Analysis Data:** Gain valuable insights from post-failure data analysis, enabling you to understand the root causes of breakdowns and prevent future occurrences.
- **Aggregated Site Performance:** Get a holistic view of your entire facility's performance, allowing you to identify trends, patterns, and areas for improvement.
- **Custom Alerts and Alarms:** Stay informed about critical machine conditions with customizable alerts and alarms, ensuring timely interventions and preventing costly downtime of operations.
- **Multi-Application Design:** Machine Vitals' versatility allows it to be used across various equipment types and lubrication points, providing flexibility and cost-effectiveness.
- **Comparative Analysis:** Identify performance variables by comparing equipment types, locations (inside/outside), and oil types. This data-driven approach enables targeted maintenance strategies.

## Industry Challenges

- **Harsh Environments:** Facilities deal with extreme temperatures, corrosive gases, and severe weather conditions, causing equipment to wear out quickly.
- **Complex Machinery:** Intricate machinery with rotating parts requires specialized knowledge and tools for maintenance.
- **Compliance and Regulations:** Strict adherence to regulatory standards is necessary to ensure equipment reliability and safety.
- **Aging Infrastructure:** Many facilities have old infrastructure, leading to more maintenance requirements and a higher risk of unexpected failures.
- **Operational Demands:** Limited downtime for maintenance activities makes it difficult to balance maintenance needs with operational requirements.

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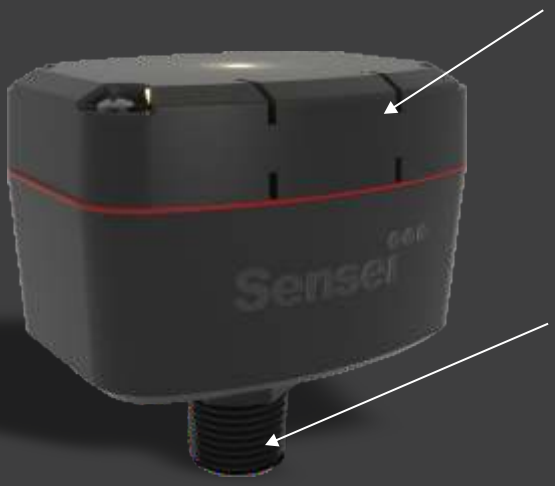
## Eight Sensing Parameters in One

Machine Vitals monitors key sensory parameters and empirical data to detect potential issues. Gain insights into equipment performance and anomalies. Compare external atmospheric conditions to internal ones for easy identification of unfavorable trends. Make proactive maintenance decisions from your desktop from the insights provided through the Sensei Platform.




### External Conditions

External (ambient) condition measurements enable users to monitor the external environment and assess its impact on equipment performance.

Temperature | Humidity | Pressure

### Internal Conditions

Internal (headspace) monitoring to track internal conditions, for measuring, analyzing trends, and receiving alerts regarding conditional parameters.

Temperature | Humidity | Pressure | Acoustic | Acceleratory Variance

## Power at Your Fingertips


### Streamlining with Digital Solutions

The Trico Companion Mobile App is designed to seamlessly integrate with Trico's digital solutions, such as Sensei® or the Orbital® Oil Analysis portal. It enables users to input companion information and activities, enhancing the overall functionality of these platforms.

Mobile App Functionality:

- Quick and easy installation with guided instructions and system pairing
- Easy add other devices to network
- Record maintenance activities
- Input pertinent information
  - Equipment type
  - Reservoir size
  - Oil type
  - Environment
  - Breather type
  - Seal type
  - Oil inspection equipment
  - Operating speeds

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