Sensei
MACHINE VITALS

MONITOR, PREDICT, PROTECT: MACHINE VITALS AT WORK

Predictive Maintenance in Water and Wastewater Treatment Plants

Maintaining reliable equipment is crucial in the water and wastewater treatment industry. However, Water and Wastewater Treatment Plants face numerous challenges that hinder efficient upkeep of equipment. Harsh operating conditions, complex machinery, compliance regulations, and aging infrastructure are just a few of the obstacles that maintenance teams encounter. Thankfully, Machine Vitals™, part of Sensei® IIoT Network, is here to streamline maintenance operations and ensure uninterrupted operations.
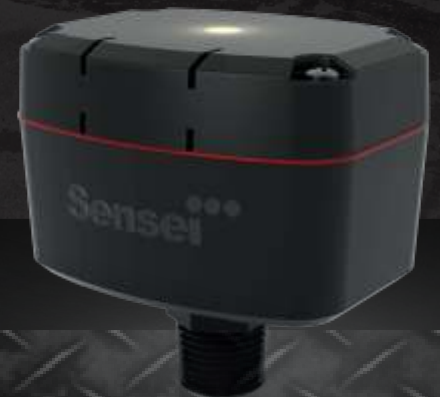
Overcoming Industry Challenges for Uninterrupted Operations
Designed for use in the water and wastewater treatment industry, Machine Vitals addresses the unique challenges faced by maintenance teams. By harnessing advanced sensing technologies and cutting-edge analytics, this device provides real-time insights into critical machinery, enabling proactive measures.

Tackling Industry Challenges Head-On
Here are some of the key features that make Machine Vitals a game-changer:

➡ **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. This saves valuable time, allowing maintenance professionals to focus on more strategic tasks.

➡ **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. by addressing the underlying issues, you can prevent future equipment failures.

➡ **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

- **Aging Infrastructure:** Necessitates ongoing maintenance, increasing costs and complicating part replacement.
- **Population Growth:** Higher water usage strain facilities, potentially overloading systems and reducing efficiency.
- **Environmental Conditions:** Extreme weather can damage machinery, requiring frequent repairs.
- **Skilled Labor Shortage:** There's a lack of skilled technicians, complicating operations and maintenance.
- **Unplanned Downtime:** Equipment failures cause unexpected downtime, affecting services and safety.

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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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