

Sensei

MACHINE VITALS

MONITOR, PREDICT, PROTECT: MACHINE VITALS AT WORK

Predictive Maintenance in Metal & Plastic Extrusion

Are you tired of unexpected breakdowns and costly downtime in your metal or plastic extrusion operations? Look no further! Introducing Machine Vitals™, an advanced condition monitoring device that is part of the Sensei® IIoT Network.

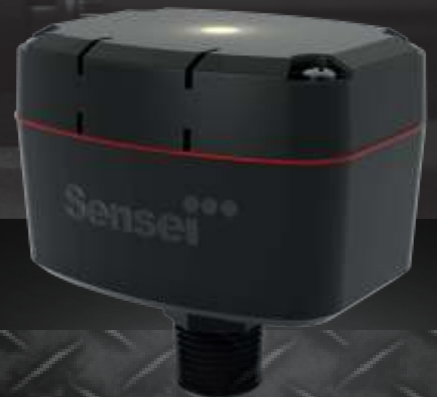
Overcoming Industry Challenges for Uninterrupted Operations

Equipped with an array of sensors, Machine Vitals continuously collects data on crucial parameters such as temperature, humidity, pressure, and more. This comprehensive monitoring capability allows maintenance personnel to detect potential issues and anomalies before they escalate into costly breakdowns or production delays. With instant alerts and notifications, maintenance teams can take proactive measures, ensuring optimal equipment performance and minimizing downtime.

Unparalleled Features for Optimal Performance

With Machine Vitals, you can expect a comprehensive solution that addresses the unique challenges faced in the metal and plastic extrusion 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

- **Equipment Wear and Tear:** Maintaining equipment subjected to high temperatures and pressures is a constant challenge.
- **Heat Management:** Effective heat management is crucial to prevent overheating and ensure optimal performance.
- **Contamination Control:** Metal extrusion equipment is vulnerable to contamination from metal shavings and debris.
- **Component Replacement:** Timely replacement of worn-out or damaged components is necessary.
- **Downtime and Production Loss:** Minimizing unplanned downtime and optimizing maintenance schedules are ongoing challenges.



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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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