



PREDICTIVE MAINTENANCE KIT FOR SORTERS

A modular solution built on the
AnySensor IoT Telemetry & Data
Intelligence Platform

www.anysensor.ro



Solution's Objective

01

The main objective of the solution is to **detect anomalies** in the behavior of key components of the sorter at an early stage, so that the maintenance team can **prevent unscheduled shutdowns** of the sorting system.



Technical Solution

02

FIXED MONITORING OF CRITICAL COMPONENTS

Each critical component is paired with **AnySensor modules**

Vibration monitoring (high-frequency bursts) using a three-axis accelerometer for the early detection of wear and mechanical anomalies.

Monitoring the engine's surface temperature to identify abnormal thermal behavior and prevent overheating.

Measurement of current consumption (using a clamp-on sensor, non-intrusive) to assess the actual load and detect mechanical resistance and potential blockages



ROLLING BOX (PERIODIC END-TO-END AUDIT)

A mobile module scans the sorter and creates a spatial map of the issues:

Determining position and speed using a combination of reference markers, an internal accelerometer, and 2D motion sensors (trackball) to accurately monitor movement and identify deviations from normal behavior.

Continuous (high-rate) vibration monitoring for real-time detection of mechanical anomalies and progressive component degradation.

Advanced thermal monitoring using thermography and video analysis to automatically identify temperature anomalies and areas at risk of overheating.



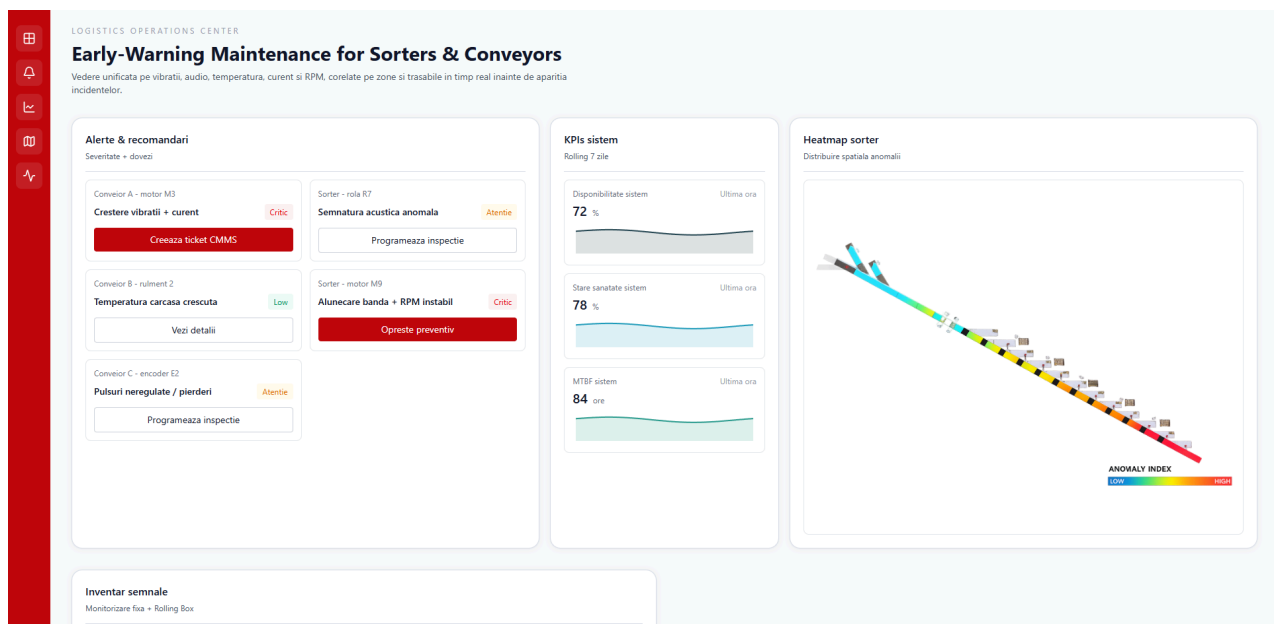
SOFTWARE PLATFORM (CLOUD)

We automatically collect and sync field data so it's accurate, complete, and easy to use at any time.

Clear visualization in an intuitive dashboard, where you can quickly see trends over time, problem areas, and the most critical anomalies.

Smart, easy-to-understand alerts that tell you what the situation is, what needs to be done, and provide concrete evidence.

We automatically identify anomalies using artificial intelligence, even those that are hard to spot with traditional methods.



Implementation Model

03

STEP-BY-STEP INSTALLATION

- Integration with existing systems
- Implementation of the RollingBox system
- System mapping
- Data collection and visualization via the AnySensor platform
- Customizing the AnySensor platform
- Implementazione modulare
- Support for multiple hardware configurations
- Security and Access
- Scalability and configurability
- Ongoing monitoring and support

Key Benefits for the Customer

04

- Reducing downtime
- Predictive maintenance instead of reactive maintenance
- Continuous monitoring of critical equipment
- Decisions based on real-time and actionable operational data
- Dashboard for centralized visibility into equipment
- Comprehensive audit of the sorting system (RollingBox)
- AnyBI - Business Intelligence - turns telemetry into operational decisions - equipment status - operational performance - anomalies...

AnySensor is an IoT data intelligence & telemetry platform for real-time monitoring and data acquisition. The predictive maintenance kit, built on the AnySensor platform, provides real-time visibility into equipment health and enables predictive maintenance based on real-time data.



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