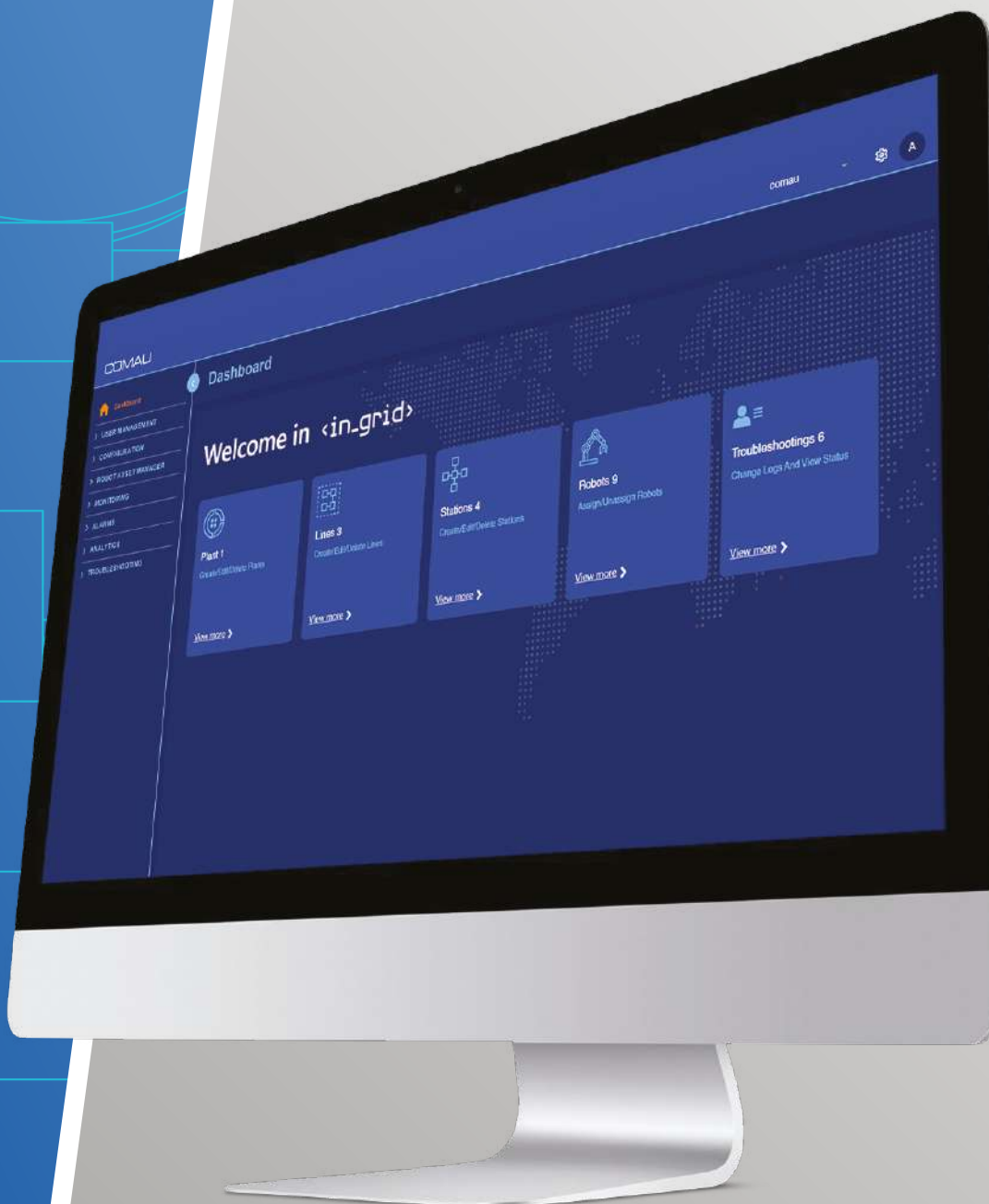
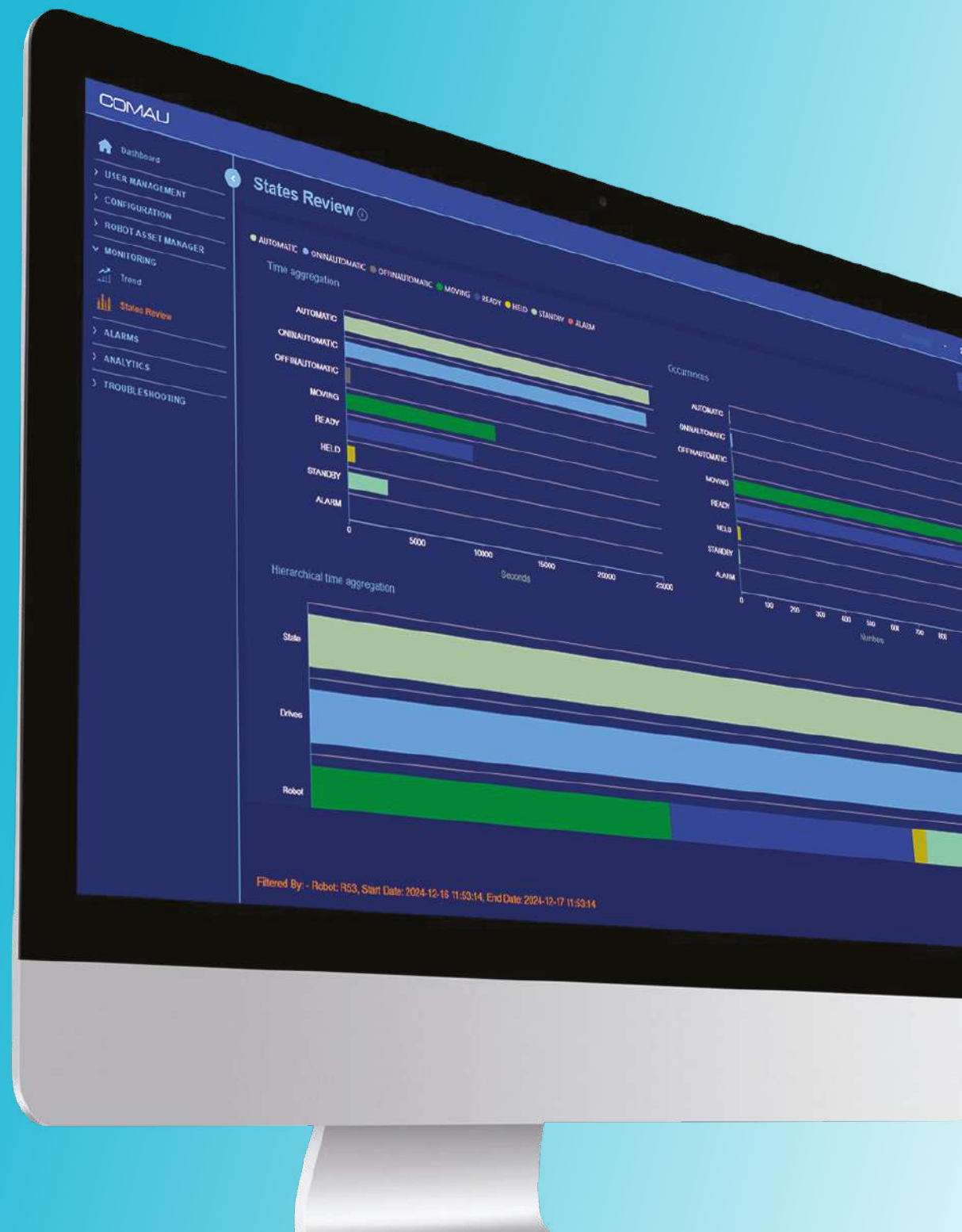


In.Grid

Robot Monitoring
Platform



<in_grid>



Line monitoring

Data collection from the PLCs on the production line.

This data can be used to monitor the overall performance and KPIs of the production lines and identify bottlenecks or areas that need improvement.



Robot monitoring

Data collection from Comau Robot to calculate performance metrics.

This data will be used to monitor the health and performance of the robots and identify potential issues that will need to be addressed.



Traceability

Data collection on a product during its production, such as quality data and other information related to the manufacturing process. This data will be used to trace the product throughout production process and ensure that it meets the required standards.



What is In.Grid Robot Monitoring?

In.Grid Robot Monitoring

Is Comau's SaaS platform designed to mine value from robot data. Leveraging continuous improvements and centralized algorithms, In.Grid transforms stored data into actionable insights to enhance efficiency and support smart manufacturing.

By interconnecting

Comau robots, In.Grid Robot Monitoring enables you to track health and performance metrics.

Real-time data collection

Is designed to reduce unexpected failures and enhance Comau robot performance on the production line. The platform collects and analyses data to track the overall health of each robot and supports inline maintenance monitoring even as the robots are busy working.

Information

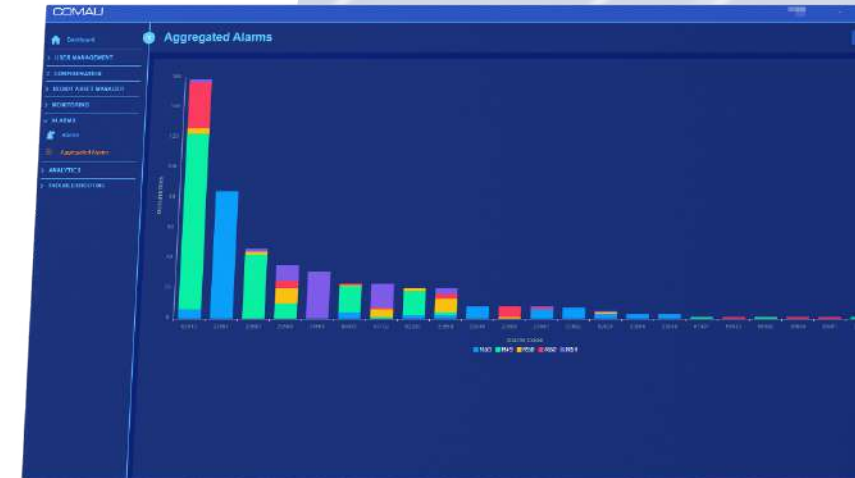
Is available and displayed through a simple and interactive interface.

Workers

Benefit from the simplicity of the easily generated reports and by receiving automatic notifications, helping streamline decision-making and boost operational efficiency.

Companies

Benefit by preventing production stoppages, detecting equipment/process/quality issues, and improving the robots' operating rates.



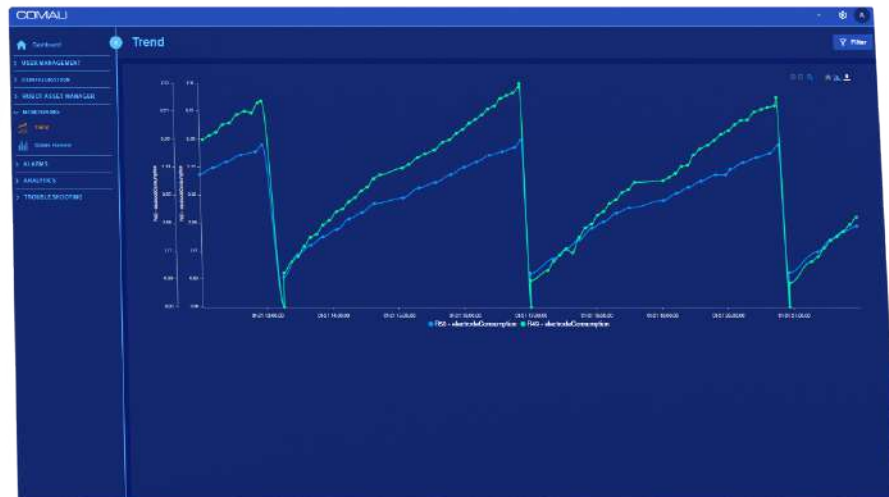
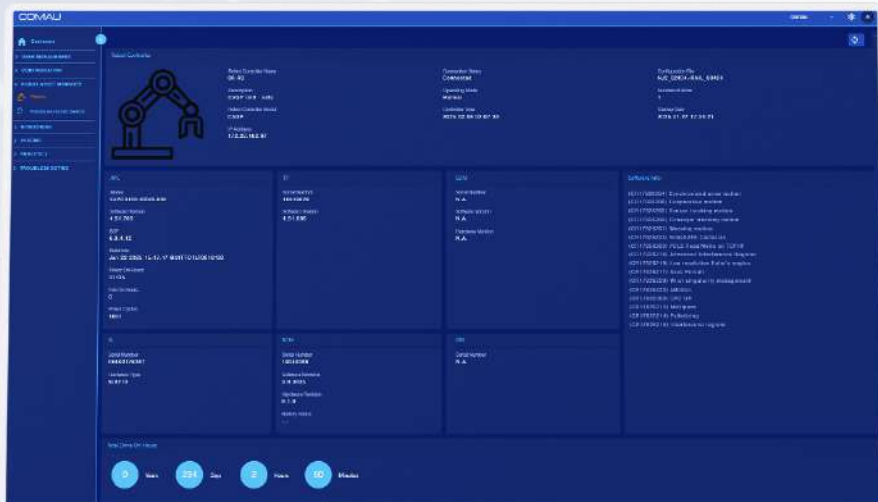
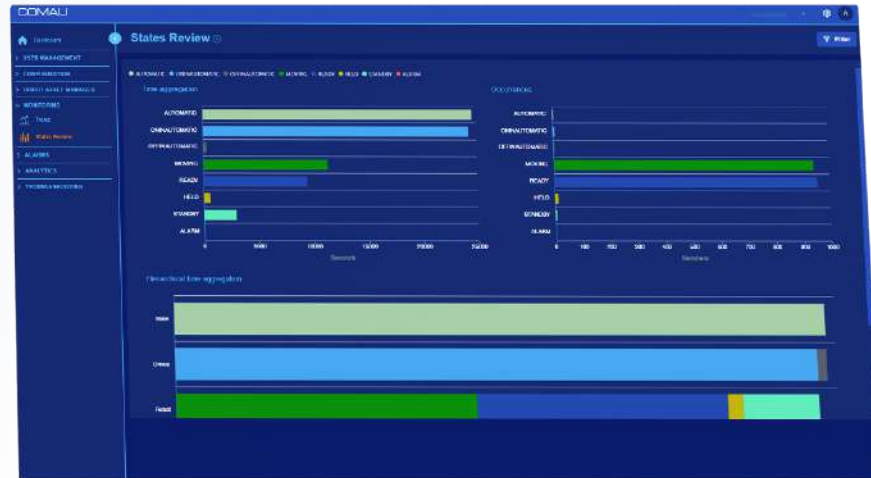
The screenshot shows the 'Filter Configuration' dialog box in the In.Grid interface. It is divided into two main sections: 'Robot Details' and 'Cabinet Details'. The 'Robot Details' section includes fields for Connection Status (Dropdown), Operating Mode (Dropdown), Robot Controller Name (Text), and Robot Controller Model (Dropdown). Below these are fields for IP Address (Text) and a section for Power on Hours (Time) with buttons for Years, Months, Days, Hours, Minutes, and Seconds. The 'Cabinet Details' section includes fields for Number of Arms (Text), APC Model (Text), RCM Serial Number (Text), and RCM Serial Number (Text). At the bottom, there are buttons for 'Clear Filter', 'Cancel', and 'Apply'.

Alarms

Search alarms Export to CSV

Index	Severity	Robot Name	Code	Message Description	Robot Date Time
1	OK	GRB	8014	8014:PC has connected successfully to the system	2025/08/11 10:14
2	OK	GRB	8015	8015:PC has connected successfully to the system	2025/08/11 10:14
3	OK	GRB	8016	8016:PC has connected successfully to the system	2025/08/11 10:14
4	OK	GRB	8017	8017:PC has connected successfully to the system	2025/08/11 10:14
5	OK	GRB	8018	8018:PC has connected successfully to the system	2025/08/11 10:14
6	OK	GRB	8019	8019:PC has connected successfully to the system	2025/08/11 10:14
7	OK	GRB	8020	8020:PC has connected successfully to the system	2025/08/11 10:14
8	OK	GRB	8021	8021:PC has connected successfully to the system	2025/08/11 10:14
9	OK	GRB	8022	8022:PC has connected successfully to the system	2025/08/11 10:14
10	OK	GRB	8023	8023:PC has connected successfully to the system	2025/08/11 10:14

10 OK alarms in 211 pages



Robot Monitoring for Better Production Management

Key Features & Benefits

Event Driven Insights

DESCRIPTION: Monitor status, performance, and health via visual dashboards for quick issue resolution.

BENEFIT: Gain instant insights to keep operations efficient.

Centralized Management

DESCRIPTION: Control multiple robots from one platform for optimized asset utilization.

BENEFIT: Simplify oversight and enhance robotic performance.

Proactive Alerts

DESCRIPTION: Set thresholds and receive real-time notifications to prevent failures.

BENEFIT: Avoid downtime with timely interventions.

Data-Driven Optimization

DESCRIPTION: Use historical data to identify patterns, pinpoint issues and improve strategies.

BENEFIT: Reduce unplanned anomalies and enhance efficiency.

Asset Utilization Analysis

DESCRIPTION: Assess robot operations to detect inefficiencies.

BENEFIT: Improve asset performance and productivity.

Process Optimization

DESCRIPTION: Enhance robot processes like welding through performance monitoring and analytics.

BENEFIT: Boost quality, cut costs, and prevent downtime.

After Sales Connection

DESCRIPTION: Connect with Comau After Sales for proactive issue resolution.

BENEFIT: Minimize repair time, identify the root cause of anomalies and troubleshoot effectively.



Seamless Integration for Immediate Results

In.Grid Robot Monitoring is **compatible** with all Comau robots, including those already installed, without any modification or robot programming. The integration can be done **without stopping** production. The In.Grid Robot Monitoring SaaS solution can be **scaled** up or down at any time to meet production needs.

Step 1

Complete a network and connectivity assessment with Comau to ensure full compliance with protocol standards and ITC requirements.

Step 2

Install on production site the In.Grid edge industrial PC already configured by Comau.

Step 3

Register in In.Grid platform and enjoy robot monitoring data. Don't worry about updates and maintenance, we will take care of it!

Value proposition features and options

Functionalities



**ASSETS AND ROBOT
PROPERTIES
MANAGEMENT**



**MULTI-PLANT
SUPPORT**



USERS AUTHENTICATION
• Azure Entra ID



**SIMPLIFIED DEVICE
CONFIGURATION**



**CUSTOM VARIABLES
MONITORING**



ALARMS COLLECTION

- Active Alarms
- Historic alarms



ALARMS ANALYSIS

- Time Aggregation
- Occurrences Aggregation



STATUSES ANALYSIS

- Statuses aggregation view
- Availability



**DATA
EXPORT**



**EXTRA
USERS**



**CUSTOM VARIABLES
MONITORING**



VARIABLES MONITORING

- Variable monitoring chart
- Trend comparison
- Notification



ANALYTICS

- Real-time notifications

Deployment



**CLOUD
PLATFORM**



**CONTAINERIZED
MICRO-SERVICES
ARCHITECTURE**

Edge Device



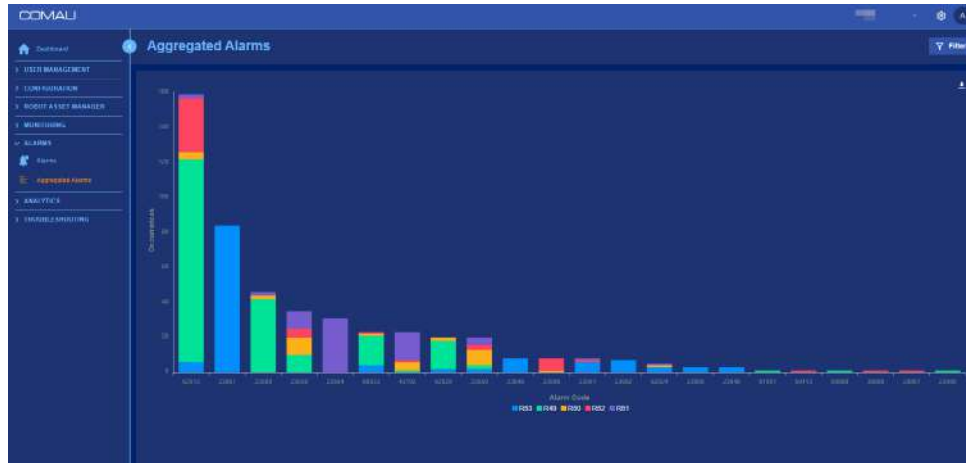
**IOT-ORIENTED
MESSAGING
TECHNOLOGIES**



**DEDICATED
EDGE COMPUTER**

● Option ● Basic

In.Grid Robot Monitoring Benefits for Manufacturers



**Real-time
equipment
monitoring**



**Improved
after sales
support**



**Reduction
of micro
stoppages**



**Remote
fleet
management**



**Productivity
increase**



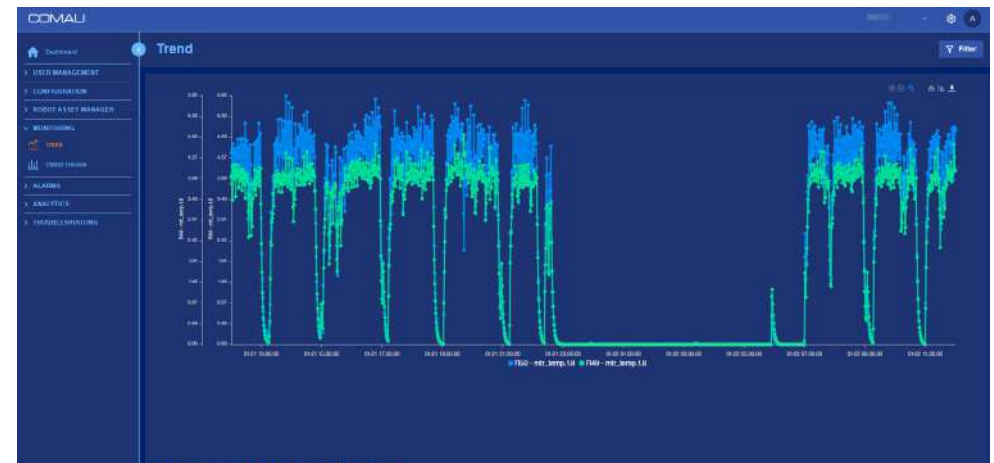
**Energy
robot
monitoring**



**Improvement
maintenance
effectiveness**



**Automatic
analysis and
notification**



Optimized Performance Monitoring for Maximum Efficiency

In.Grid Robot Monitoring delivers comprehensive AI-driven insights that enhance robot efficiency, minimize downtime, and optimize asset utilization all through a centralized, user-friendly SaaS platform.

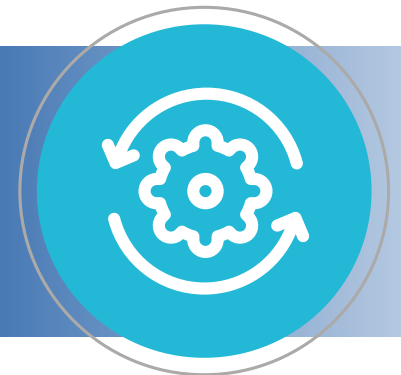
Advanced robot behavior monitoring

The In.Grid Robot Monitoring Platform is specifically designed to track the behavior and performance of **Comau's own robots**, leveraging deep expertise in automation and robotics.



Process optimization & electrode tracking

It offers **process monitoring features**, such as **electrode consumption tracking** in **spot welding applications**



Optimized Performance Monitoring for Maximum Efficiency

In.Grid Robot Monitoring delivers comprehensive AI-driven insights that enhance robot efficiency, minimize downtime, and optimize asset utilization all through a centralized, user-friendly SaaS platform.



In-depth data for performance & reliability

By leveraging in-depth data accessible through the controller's software, it optimizes **robot performance, longevity, and reliability**.



Enhanced warranty & maintenance insights

The platform enhances **warranty support** and enables future **extensions** by providing **insights**, improving **maintenance efficiency**, and facilitating **data-driven decision-making**.



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Made in Comau