



# INDUSTRIAL IoT MAINTENANCE MANAGEMENT SYSTEM



**KMR**  
Keep the Machine Running

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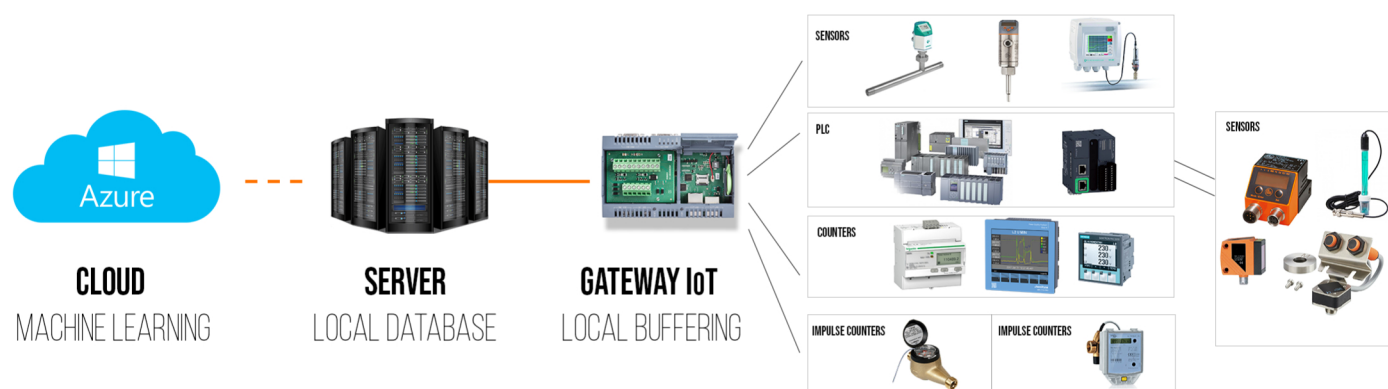
**QUARTZ  
MATRIX®**



## Keep the Machine Running (KMR)

KMR is a modern system for maintenance management, intended for planning and organizing the flow of maintenance activities for: factory machines, equipment, companies or office buildings.

This type of software system is an integral part of Industry 4.0 digital ecosystems, the main role of the maintenance management system is to effectively organize the entire maintenance activity and provide the responsible personnel with control over the equipment, materials, activities, and maintenance costs.



### The KMR system integrates a variety of sensor types

KMR integrates IoT technologies focusing on automatically gathering information about equipment / machinery and other useful data for maintenance management:

- operating time
- vibrations
- temperature
- level
- flow
- concentration

### Effective planning, monitoring and implementation

Say goodbye to papers, busy files and records of planned maintenance and interventions! KMR system for equipment maintenance makes this extremely simple fast and efficient. You have access at any time to the information you care about, so that you can make effective quick decisions.

### Machine / equipment maintenance management

Full database of all machines and equipment that are subject to maintenance and repairs. Here you can add all information about equipment / machines: name, inventory number, location, warranty period, date of commissioning, operating counter, images, additional data of interest.

## Preventive and predictive maintenance

Ensure continuous workflow of the equipment and reduce downtime.  
Prevent unexpected damage, reduce wear on dynamic and static components. Reduce overall maintenance costs by monitoring the technical condition of the equipment and its behavior over time in order to determine the maintenance needed since the first scheduled repair.

## Activity control

You have an overview of your maintenance activity, as well as specific information for each implemented and planned action.

You have full control over the entire activity (equipment, materials, assigned personnel) and over the involved costs.

## Preventive and predictive maintenance management

KMR system has the ability to alert you before a machine breaks down. Everything is done according to a work plan pre-configured in the application.

## The management of revisions / interventions machines / equipments

Planning and management of maintenance / interventions for each machine / equipment: type of maintenance / revision, assigned technician / supplier, date, alert, status, diagnosis, tasks, used materials, associated documents, costs.

## Ticketing system

Reduce response time by assigning tasks to technicians (tickets / requests). The registered equipment in KMR system is associated with a unique QR Code, which once scanned allows logged technicians to begin solving assigned tickets for each machine. The simple scanning of the QR code provides to authorized employees access to equipment information like: technical specifications, maintenance history, operating hours, status revision, user manuals and any other material required to fulfill the tasks.

## Activity records and history

Keep a record in the KMR maintenance system of any document that you consider to be useful for maintenance work: equipment manuals, service manuals, verbal processes and so on. You have quick and easy access to revision and interventions history for each equipment. This way you can easily determine the need for materials and works based on the situations of previous repairs.

## Stock management

Real-time access to up-to-date information on necessary materials for maintenance and repair: name, manufacturer, stock, price, manuals. Material lists can be imported and exported from Excel files.

## EMAIL + SMS notifications and alerts

Simplify the process and increase the speed of working interventions. You have real-time access to information / decisions, you are sure that accurate and detailed information is passed on to the right people, at the right moment.

## Specific Reporting

Analyze and make decisions based on application-specific reports, extremely useful information for: management, economic department and maintenance department.

- Validate the quality of work. You can quickly detect equipment with frequent malfunctions, identify abusive or irrelevant actions, determinate wich areas give the best results, and wich areas record losses.
- Manage inventory and budget reporting based on needs.
- You can find information about equipment efficiency or inefficiency based on those that produce the most maintenance costs (top spending, top usage, top revisions etc.).
- Optimize your employees work and production using predictions.
- Analyze the impact of implemented measures.
- Prove your company efficiency in management and production to attract new contracts.

## Report

10 types of reports can be generated for:

- materials: top uses, top costs, material usage details
- equipment: top number of revisions, top revision costs, detailed equipment revisions;
- revisions / interventions: top costs, delayed revisions / interventions, revisions following the operation counter, similar situations;
- tasks assigned to technicians: tickets and requests, equipment manual, service manual, verbal processes, revisions and interventions history for each equipment.



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## References

*“By using KMR, we have succeeded in achieving our goals: a detailed inventory of all our equipment, a maintenance prevention plan and a reduction in maintenance costs. Throughout the consultancy process, we have received support from both the sales team and the technical side, ultimately benefiting from the training required to make effective use of the application.”*

### Artifex Company

## Maintenance management system

Machinery and Equipment ▼	Technicians ▼	Reports ▼	Maintenance and operation materials ▼
Reduce downtime ▲	Assigning work tasks to technicians (tickets, requests) ▲	Technicians work assignments reports (ticketing system) ▲	Cost control ▲
Corrective maintenance ▲	Access to resources: manual service, historical interventions, similar situations ▲	Stock reports: Top Costs, Top Uses ▲	Stock control ▲
Preventive and predictive maintenance ▲	Alerts, notifications and real-time information ▲	Equipment reports: revisions costs, revisions number ▲	Planning the necessary materials ▲
Maintenance planning ▲	Mobility - web interface (laptop / tablet / phone) ▲	Revision / Intervention reports: Top Costs, Delayed, Planned ▲	
Register operating hours ▲			

## Maintenance Management System



Configurable on roles and permissions for maintenance personnel



Diversified reports: revisions, interventions, machines, materials, assigned tasks



Alerts, notifications, and real-time information



Ticketing system  
Assign work tasks to technicians (tickets / requests).



Preventive and predictive maintenance



Mobility web interface (laptop, tablet, smartphone)

### QUARTZ MATRIX

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