



**CBM PREDICTOR
DIGITIZATION AND SUSTAINABILITY ALIGNED**

CBM PREDICTOR IS YOUR CBM SYSTEM FOR MONITORING AND DIGITIZATION OF VALVES



A ground-breaking Condition-Based Maintenance solution that is transforming the way industries worldwide maintain their valves and mechanical devices. By combining advanced sensor technology, IIoT Edge computing and cloud-based storage, we offer a professional wireless solution that meets the challenges of uptime, data quality, cost efficiency and reduced emissions.

HIGHLIGHTS

Improved Uptime: Our CBM solution provides qualified actionable data. By performing maintenance based on the condition of the equipment, you can minimize unnecessary inspections and repairs. This provides significant cost savings and reduces production interruptions. It is also hot swappable and easily installed directly on equipment to be monitored.

Low Carbon: Helps you minimize resource use and waste by performing precisely targeted maintenance. As it is wireless the need for traditional manual inspections is reduced to a minimum and will impact the carbon footprint associated with transport. Preventing leaks and accidents it will help reduce emissions of oils and chemicals.

Qualified Data: Our advanced sensor technology provide you with accurate qualified data about the condition of your valves and mechanical devices. This gives you a solid basis for decision-making as well as optimizing operational processes, thus helping towards maximum efficiency and minimizing energy consumption. The insights you gain will also impact your work with AI and digital twins.

“Valves and connectors account for over 90% of emissions from leaking equipment according to the Environmental Protection Agency (EPA)”

(Valve World Americas Publisher, June 1, 2023)

ADVANTAGES FOR YOUR INDUSTRIES:

OIL & GAS:

Reduce the risk of costly leaks and spills by detecting malfunction of equipment. The CBM Predictor also provides the ability to optimize maintenance schedules. Our patented solution will revolutionize your steps toward Zero Carbon and the No Flaring by 2030 Initiative.

INDUSTRIAL MANUFACTURING:

Improve the reliability of manufacturing processes by avoiding unexpected machine failures. Increase productivity, save on maintenance costs as well as lower your carbon footprint.

ENERGY & POWER PLANT:

Maximize power plant performance by monitoring critical valves and turbines. Our solution helps you meet strict safety and environmental requirements and regulations.

MARITIME & TRANSPORT:

Increase the reliability of ships and fleets by preventing mechanical problems in advance. Reduce operating costs and extend the life of equipment.

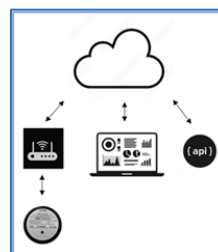
The CBM Predictor and Solutions

Pop and Leak detection for PSV process safety valves

Detection of safe activation of shutdown valves and blowdown valves

Low frequency vibration monitoring

Heat Tracing Surveillance for Insulated Process Pipes



Intelligent CloudLink

Predictor Information Manager (PIM)

CBM Predictor – Technical:

Vibrations applications with internal sensors including Pop and Leak.
ESDV/PSDV valve leak
Pipe vibrations 2Hz – 500 Hz
Temperature measurements with external sensors.
Heat Trace temperature measurements
Process medium temperature measurements
Pressure measurements with external sensors
Vibrations applications with external sensors.

Wireless connects to wireless routers with Bluetooth Low Energy wireless technology.
Ultra-low power consumption
Secure field programmable
Self-Calibrating
Operating temperature: Minus 20 to plus 70
Intrinsically safe Lithium-Thionyl Chloride battery, 8-12 years battery life

Device to be attached directly on the equipment to be monitored or thermowell depending on the design.

Stainless hose clamp type to fit any diameter valve body (for PSV and SDV)

Ex II2G Ex ia IIC T4 certified

Full integration with business systems Certificate

DNV Presafe 20 ATEX 403841

IECEx DNV 21.0105



Intelligent CloudLink – Technical:

The Intelligent CloudLink is an integrated hardware and software solution providing a robust and reliable IoT sensor solution able to connect multiple BLE5 capable sensors and actuators.

Long Range Bluetooth 5
LTE-M/NB-IoT
GPS
ESIM/SIM
MQTT support (TLS)
Firmware Over The Air Update
Bulit in Security (Certificates)
IoT protocol based on MsgPack
Power management support

The CloudLink can handle several predictors, and the dashboard (PIM) gives you a full overview.

VALVE TECHNOLOGY FOR A SUSTAINABLE FUTURE

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