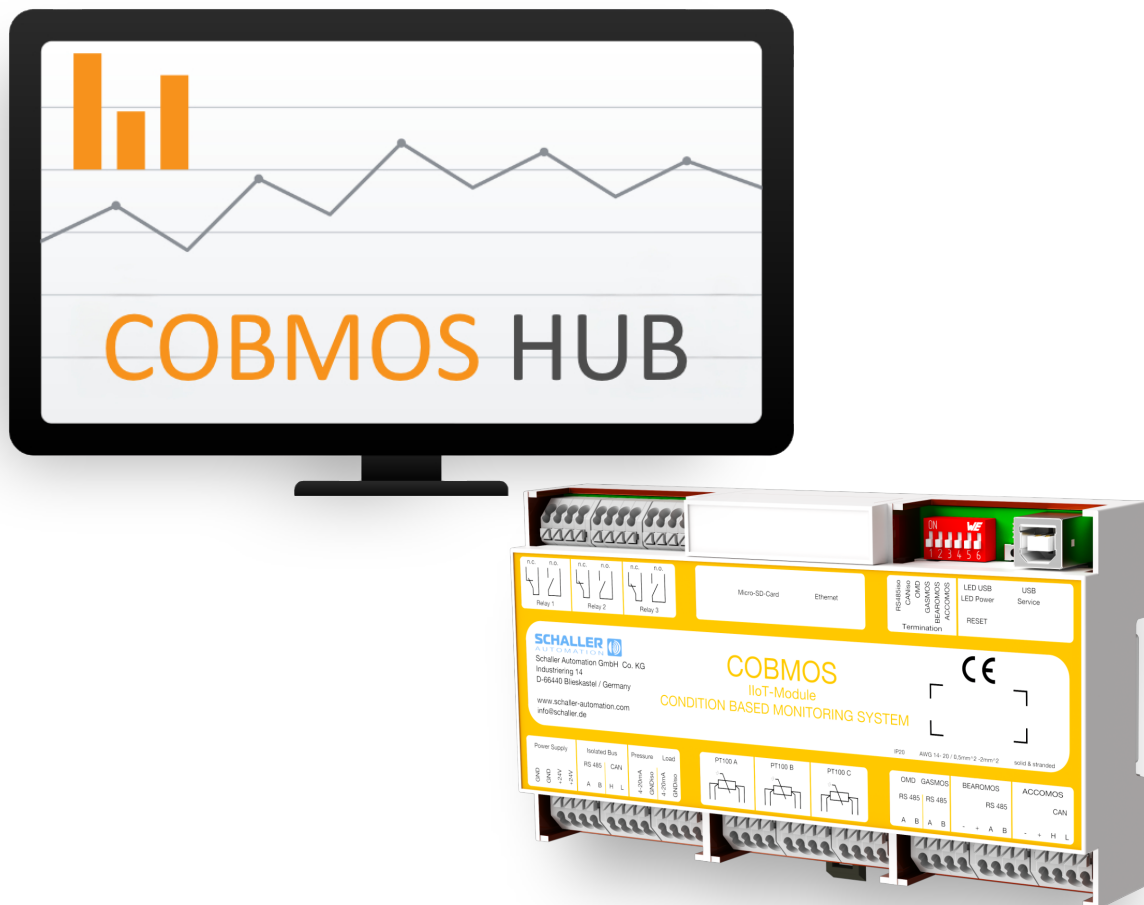


COBMOS[®] HUB

CONDITION BASED MONITORING
DASHBOARD



Visualize. Analyze. Alert. Support.

Your Benefits at a Glance

COBMOS HUB is a new cloud-based web application for the visualization, storage and analysis of sensor data.

Benefit from COBMOS HUB through:

- Centralized cloud access to all connected sensors
- Clear and intuitive dashboards with continuously updated measurement values
- Freely configurable, user-specific views and analyses
- Platform-independent access via app or web browser with no additional software installation required
- Notifications delivered to any device via email or SMS
- Expert support from Schaller Automation specialists

Why COBMOS HUB?

Schaller Automation provides robust and reliable systems for oil mist detection, as well as sensors for condition monitoring of engine crank drive. These safety and condition monitoring systems make a significant contribution to protecting both personnel and machinery while enabling the early detection of potential equipment failures.

As part of Schaller Automation's COBMOS future strategy, the digitalization of large engine applications is being continuously advanced.

The COBMOS MODULE enables the acquisition of measurement data and device information from all connected sensors. Through its integrated local web server, it provides basic visualization of current measurement values and local data storage. Various communication interfaces allow integration into existing automation systems for data transmission.

In many retrofit projects, however, connecting sensors directly to the automation system can be complex and costly. In addition, the visualization capabilities of existing automation systems may not be sufficient to present measurement data clearly and effectively. Depending on the integration concept, opportunities for receiving timely notifications of issues detected by Schaller Automation sensors may also be limited.

Furthermore, data collected by the sensors can provide valuable insights when investigating more complex crank drive conditions. However, operators often lack the in-depth expertise required to fully interpret this information.

COBMOS HUB provides a simple and accessible visualization solution whenever an internet connection is available. Through its integrated alarm management and reporting functions, critical information can be delivered directly to users via email or app notifications. Users of COBMOS HUB also gain access to expert support and rapid assistance for advanced technical inquiries.

The COBMOS MODULE remains the central on-site component, serving as both a data logger and communication hub for ACCOMOS, BEAROMOS, GASMOS, and oil mist detector systems (VN2020, VN301plus, VN87plus, VN93). Data collected by the COBMOS MODULE is transmitted securely to COBMOS HUB via MQTT over an existing internet connection. Within the cloud application, data is processed and enhanced using intelligent algorithms, providing valuable insights for plant and engine operators. This enables informed decision-making and predictive maintenance strategies through advanced analysis, visualization, monitoring, and alarm functions.

Each user receives secure access to a personalized dashboard that can be customized according to individual requirements. Measurement data can also be downloaded for further analysis. All transmitted data is securely stored on European servers and handled in accordance with the strict data protection regulations of the European Union.

Features of the COBMOS HUB

COBMOS HUB offers the Following Functions:

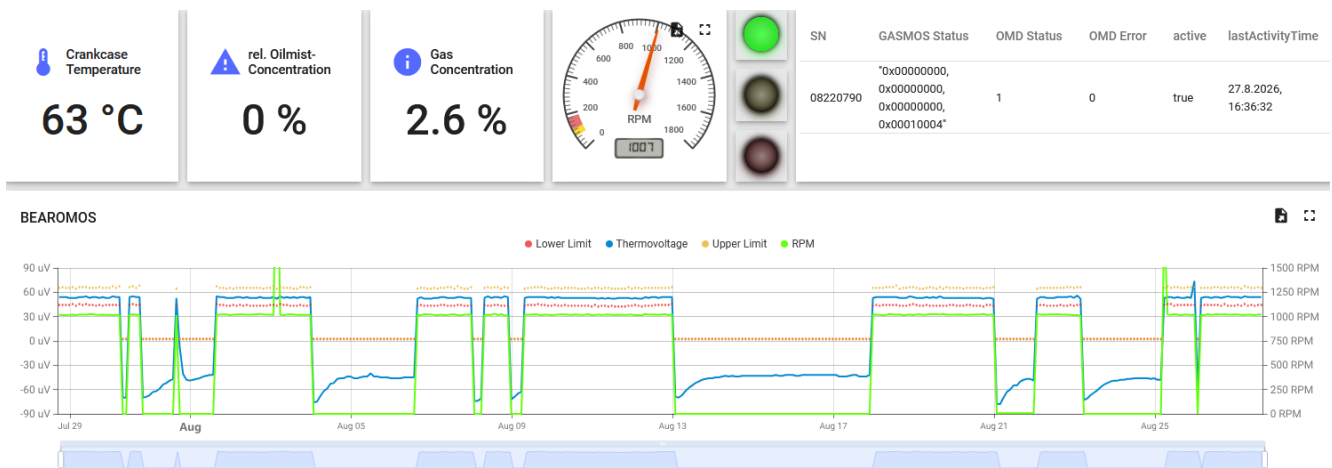
- Cloud-based visualization of all connected Schaller Automation sensors
- Dashboards displaying live measurement values, system status information and limit monitoring
- Fully customizable dashboards and user-defined views
- Historical trend analysis for monitoring long-term developments
- Centralized alarm management with notifications and event history
- System status overview by installation and serial number for all connected modules
- Platform-independent access via app or web browser, anytime and anywhere

COBMOS HUB – Dashbord

The COBMOS HUB dashboard brings together all key measured values from the connected sensors in one clear and intuitive interface. Users can instantly view the operating status and several sensor information.

The dashboard can easily be adapted by a customer, adding or removing different widgets with different visualisation options. A standard dashboard design can also be used.

For example a clear value display can be used next to bar graphs, speedmeters, alarm visualisation or line diagrams with different levels to show several measurement values in parallel over time. An intuitive traffic-light indicator provides a centralized view of the overall system status and highlights current events, enabling users to recognize critical conditions immediately and respond quickly.



COBMOS HUB – Example view of a custom-configured dashboard

App for Smartphones & Tablets

With the COBMOS HUB app, users can access key measurement data, system status information, and current events directly from their smartphone or tablet. The intuitive interface provides a clear overview of connected systems, enabling operators to monitor equipment status wherever they are.

If a critical event occurs, notifications can be sent directly to the user's mobile device. This enables operating crews and technical personnel to stay informed and respond quickly, even when they are away from the control room.

Reporting & Alarm Management

Automatic reports can be generated at user-defined intervals. Based on the data provided by connected Schaller Automation sensors, COBMOS HUB gives you a relevant insight about the status of your crank drive in an easy-to-understand format.

If an event occurs that requires the attention of the operating crew, alarm notifications can be sent immediately via app or email.

Continuous Development

COBMOS HUB is continuously enhanced with new features, analytical functions, and intelligent algorithms.

All improvements are made available automatically via the cloud, eliminating the need for manual on-site software updates.

Who Is COBMOS Designed For?

COBMOS HUB is ideal for operators of large engines who require location-independent and cross-platform access to measurement data from their Schaller Automation sensors.

For companies operating multiple assets or sites, COBMOS HUB provides a centralized cloud-based overview of all connected systems, regardless of their physical location.

The only prerequisite is an installed COBMOS MODULE with an active internet connection.

Installation & Retrofit

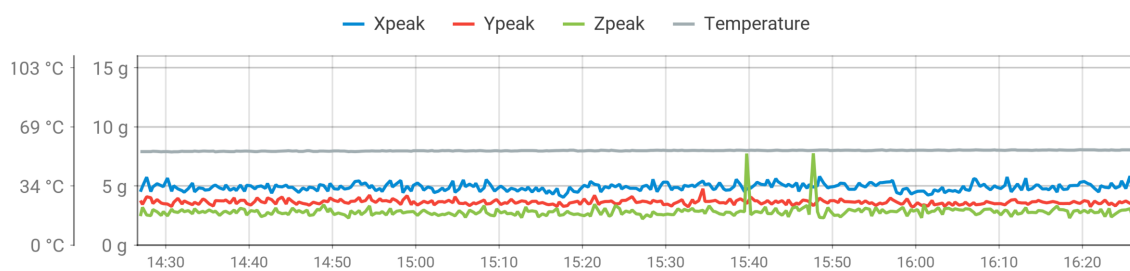
As a cloud-based software solution, COBMOS HUB requires no local installation of additional hardware or software. Once the COBMOS MODULE is connected to an existing network with internet access, measurement data is automatically transmitted to COBMOS HUB via MQTT.

Users can then access COBMOS HUB from any standard web browser on a PC, tablet, or smartphone (iOS / Android), anytime and from anywhere with an internet connection.

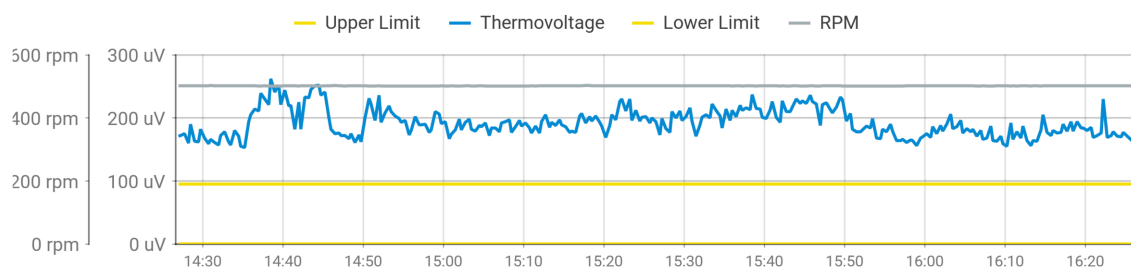


Created time	Originator	Type	Severity	Status	Assignee
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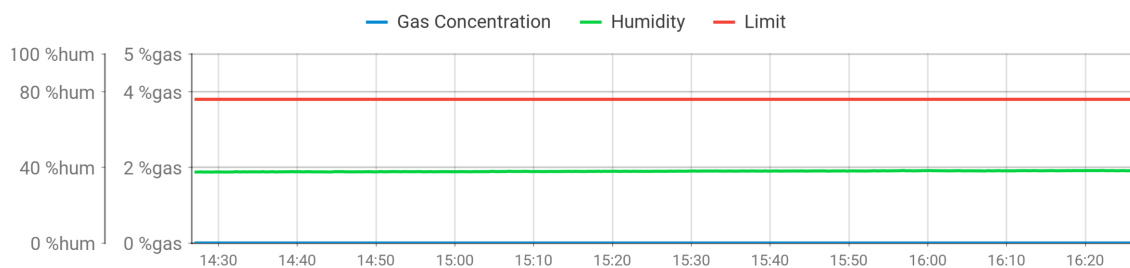
ACCOMOS



BEAROMOS



GASMOS



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