

OCM – The new generation of LEWA odorization control. Modular. Reliable. Future-ready.



Gas odorization is a safety-critical core function and therefore places high demands on reliability, ease of operation, and the long-term future viability of the control technology used. With the OCM (Odor Control Module), LEWA is taking its proven odorization control systems into the next generation.

The OCM is specifically designed to meet the requirements of odorization technology and is based on an open, modular automation platform. It combines decades of LEWA application experience with modern PLC and HMI technology. The controller enables precise, gas-flow-dependent control of the dosing pump, thereby contributing to a safe and reproducible injection of odorant.

Through graphical visualization of the plant's process flow diagram, complex processes are made transparent, comprehensible, and safely manageable. As a future-proof platform, the OCM meets both current and upcoming regulatory requirements while offering a high degree of flexibility for different plant concepts.

Your benefits at a glance:

Maximum transparency thanks to the graphical process flow diagram

One platform for up to two odorization lines

Modular, expandable, and future-proof

Industry standard & CRA compliant

OCM – System & Technology.



The OCM is designed as a scalable, modular control system.
It allows flexible adaptation to different plant concepts.

Central modules (overview)

PSM – Power Supply Module:

Generation of the internal control voltage (24 VDC) from the external supply voltages (24 VDC or 230 VAC), including protection and an on/off switch.

SPM – Solenoid Pump Module:

Control of up to two solenoid pumps, including protection.

TTM – Thermistor Tripping Module:

Monitoring of the PTC thermistors of the MLM-40 solenoid pump.

REM – Relay Module:

Relay assembly for potential-free signal exchange, as well as power relays for actuating solenoid valves, optionally with an on/off switch for the filling valve.

CTM – Control Module / I/O Module:

Central PLC unit for processing digital and analog input and output signals, including system visualization via a 4.3" operator panel.

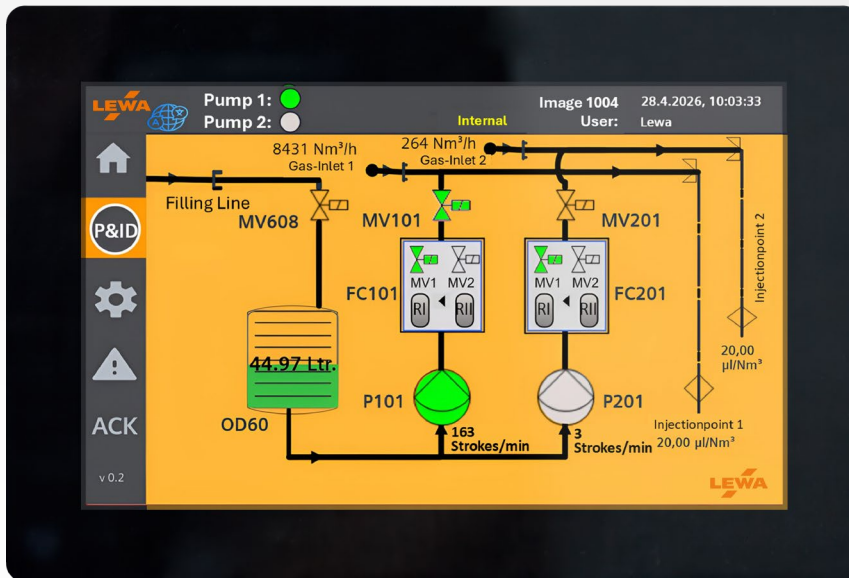
EX1 – Ex Flow Meter:

Connection of intrinsically safe flow meters via isolating switch amplifiers or Zener diodes.

EX2 – Ex Accessories:

Connection of intrinsically safe sensors such as analog level probes, level switches, or proximity sensors via power isolators or isolating switch amplifiers.

OCM – Visualization.



In combination with the integrated plant visualization, the control system creates a transparent system that clearly presents even complex odorization processes, making them safely and reliably manageable.

Modern, intuitive user interface

The new HMI (Human Machine Interface) is based on a state-of-the-art color touchscreen with clearly structured user navigation. All relevant information is presented clearly and can be grasped immediately.

Graphical representation of the process flow diagram

The complete odorization system is visualized as a graphical process flow diagram. System status, operating modes, and messages are immediately visible – even for complex odorization systems.

Simple and safe parameterization

All relevant operating and control parameters can be set conveniently via guided dialogs and wizards. This reduces operating errors and shortens commissioning and service times.

Plain-text messages instead of codes

Faults, warnings, and status messages are displayed in plain text. This significantly simplifies troubleshooting and supports service and operating personnel in day-to-day operations.

Multilingual operation

The HMI supports multiple dialog languages and can be flexibly adapted to the installation location – ideal for international applications and service assignments.

User and access rights management

Graduated user rights (e.g., operator, service, administrator) ensure secure and controlled access to functions and parameters.

High transparency through target/actual comparisons

Control variables such as gas flow rate, odorant concentration, or pump output are displayed with target and actual values. Deviations are immediately visible and are automatically corrected or reported.

Scalable and future-proof visualization

The HMI is fully integrated into the PLC environment and can be adapted as the system is expanded. New functions or options can be easily incorporated into the existing visualization.

Consistent operating logic for control HMI and external panels

In the future, local HMI operation and external operator panels can be used with identical user guidance – simplifying training and operation.

Reduced training and operating effort

Thanks to the intuitive structure and self-explanatory visualization, only minimal training is required – even when operating personnel change.

Added value for operators, service, and planning.

With the OCM, LEWA offers a comprehensive system platform that addresses the entire lifecycle of an odorization system – from planning and operation through to maintenance.

Your benefits in daily operation

– High operational reliability

Precise, gas-flow-dependent dosing and continuous monitoring of all relevant process variables ensure reproducible and safe odorization.

– Intuitive operation

The modern color HMI with graphical process flow diagram enables quick orientation, reduces operating errors, and simplifies training and commissioning.

– Reduced engineering effort

A single control system for up to two independent odorization lines lowers engineering, installation, and maintenance costs.

– Service-friendly design

Modular plug-in units, front-side access, and a clear module structure enable fast replacement – even without PLC knowledge.

- Modernization of existing odorization systems with legacy control technology (retrofit)
- New installations with extended automation requirements

Thanks to its modular architecture, the control system can be precisely tailored to the specific application – without unnecessary additional functions.

Future-proof through industrial standards

The OCM is based on widely used, industry-standard components. Unlike proprietary special solutions, this ensures long-term availability of hardware and software as well as a high level of investment security.

- PLC and HMI technology based on the Siemens automation platform
- Standardized interfaces available as options (e.g. Modbus RTU, Profinet)
- Capability for future expansion and adaptation

Typical areas of application

The OCM is suitable for a wide range of gas odorization applications:

- Transfer stations and pressure regulation stations
- Local distribution and gas distribution networks
- Redundant or dual-line odorization systems

Standards, Regulations & Cybersecurity

The OCM complies with current legal requirements and is prepared for future regulations:

- CE, EMC, RoHS, and ATEX-compliant
- Complies with relevant DVGW regulations (including G 280)
- CRA-compliant (Cyber Resilience Act)

OCM – The new generation of LEWA odorization control

With the OCM, LEWA is setting new benchmarks in odorization technology: modular, safe, user-friendly, and designed for long-term availability.

You benefit from:

- Decades of application experience
- State-of-the-art automation technology
- A platform that grows with your requirements