SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Safe and Compliant Healthcare Facilities

Healthcare Facilities with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced control systems for hospitals, clinics and laboratories. Our integrated approach combines reliable controllers, precise sensors and monitoring software into scalable solutions that keep clinical environments safe, comfortable and compliant.

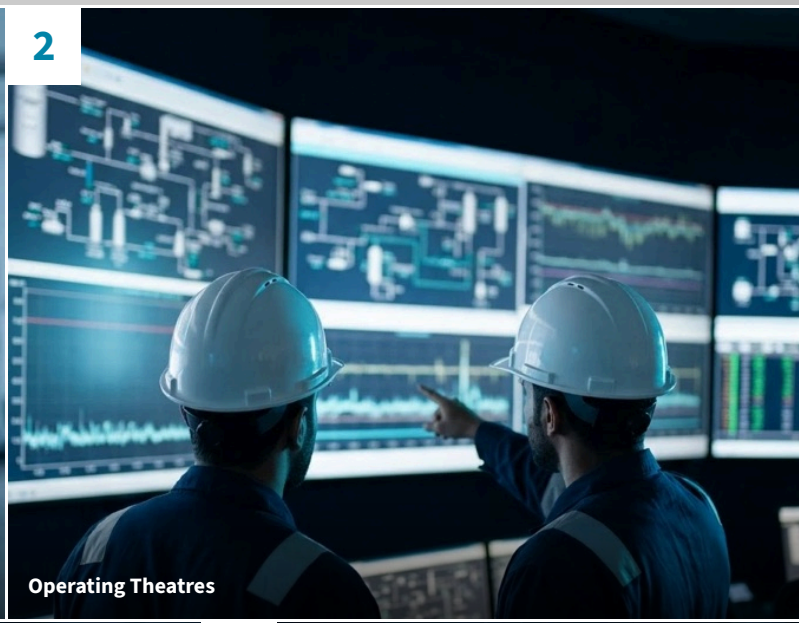
Our solutions are designed for reliability and long-term performance, for new facilities and upgrades of operating buildings. With expertise in platforms such as Siemens, Honeywell, Belimo and many more, we deliver clean-room and operating-theatre control, air-quality monitoring, UV disinfection and medical-gas monitoring tailored to each department.

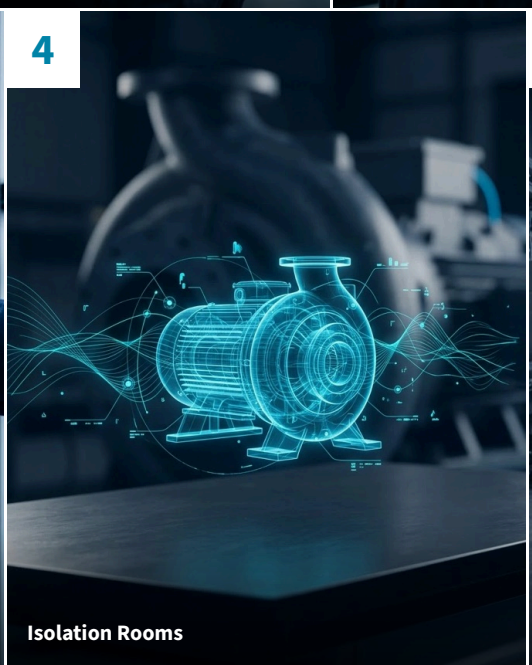
From operating theatres, ICUs and isolation rooms to laboratories, pharmacies, sterile services and clean rooms, our systems hold pressure, temperature, humidity and air changes within limits and document them for audits.

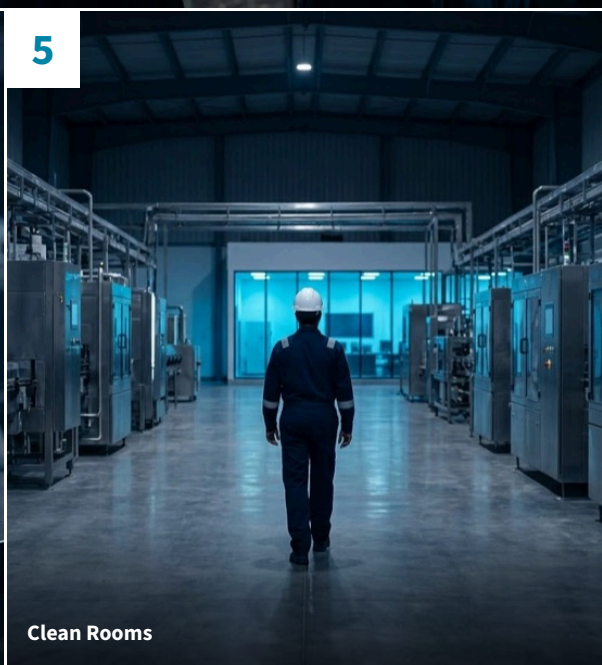
We ensure seamless integration with HVAC, nurse-call and building systems, supporting protocols like BACnet, Modbus, KNX, OPC UA and more. Additionally, we enable edge and cloud connectivity for facility-wide dashboards and reporting.

Application areas for the Segmic control solution

1. Operating Theatres
2. Intensive Care Units
3. Isolation Rooms
4. Clean Rooms
5. Laboratories
6. Pharmacies
7. Sterile Services
8. Imaging Suites
9. Patient Wards







From individual technical systems to a safe, compliant complete solution

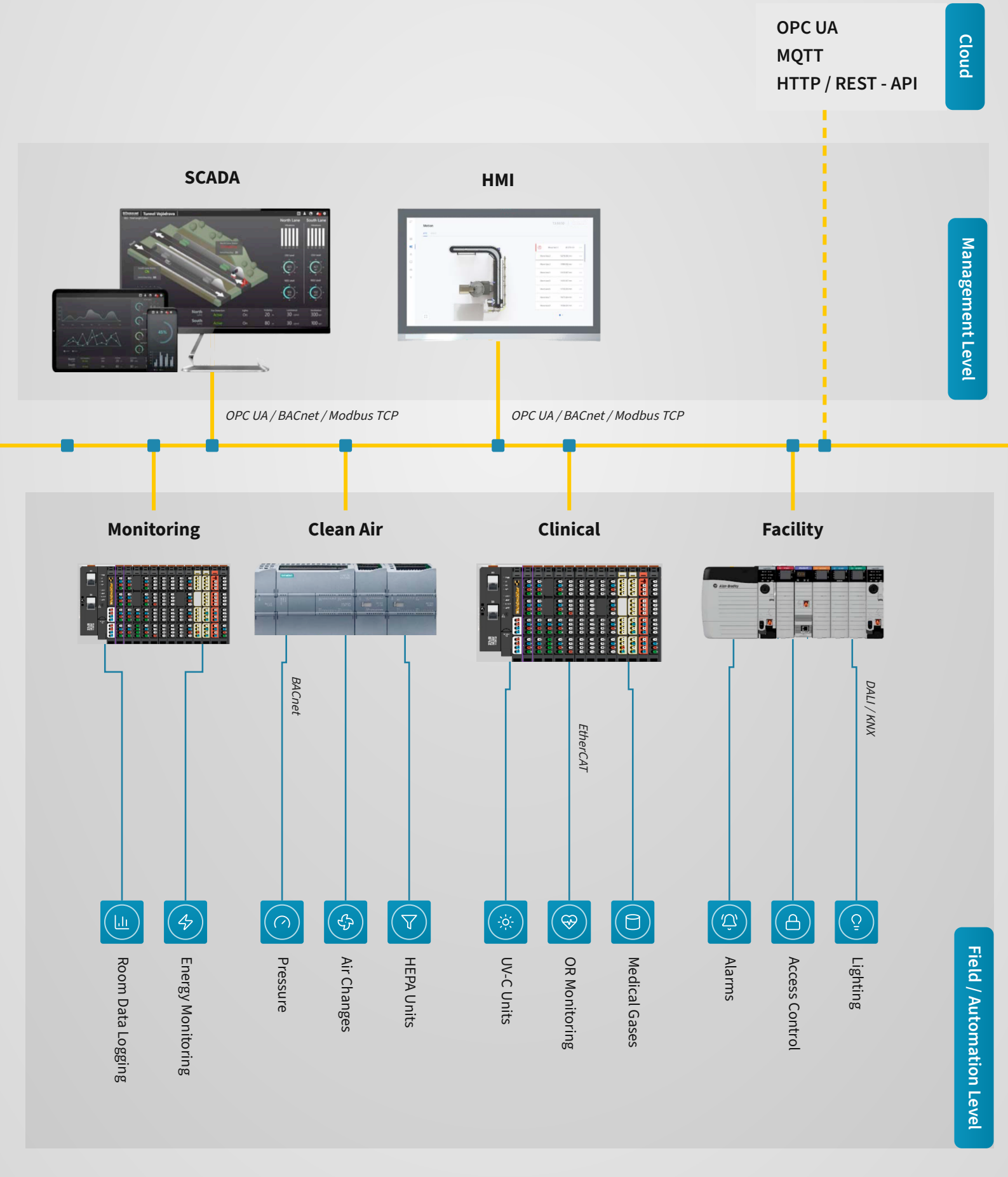
All technical systems integrated in one control system:

- Room pressure, temperature and humidity control
- HEPA filtration and air-change monitoring
- UV-C disinfection systems
- Medical gas and alarm monitoring
- Operating-room monitoring kits
- Audit-ready data logging and reporting

All components for smart healthcare facilities

At Segmic Engineering, we automate critical clinical environments in a comprehensive, scalable, and future-ready manner. Our platforms integrate decentralized I/Os, room controllers and third-party systems through standard building protocols.

This approach keeps each room under precise control, simplifies validation and audits, and gives facility teams one view of every critical space.



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