



Control system for bioreactors:

Manufacturing, parameterization, testing,
commissioning





Reliable control in the bioreactor environment – solutions for optimal scaling

Our engineering teams provide bioreactors with complete hardware and software development from a single source, including production, installation of the electronic and pneumatic hardware and system testing. Our solutions optimally support the scaling and flexibilization of production capacities.

We use Eckelmann solutions to control the bioreactor functions, regulate and control pH values, gas flows, speeds and temperatures, for example.



Eckelmann supplies the entire control solution with a user-friendly operating unit

Cutting-edge technology enables custom-fit automation solutions

Bioreactors get complete hardware and software development from our engineering teams. We do not consider ourselves a supplier, but a partner and advisor with industry experience.

Typical applications for bioreactors are suspension cell cultures for the production of viral vectors for gene therapy, for vaccines or for the production of meat substitutes.

Customized development for maximum process reliability

Eckelmann supplies the entire control system plus the operator interface (HMI): Expertise from the user experience flows into the user-friendly design of the operator interface. This ensures maximum process reliability and enables high performance.

The controls are developed and manufactured according to customer requirements for bioreactors with a wide range of capacities.

Hardware and software: developed and tailor-made in partnership

Expert teams are involved from the planning stage, advising and supporting development and manufacturing processes with specialist knowledge and process know-how to increase quality, safety and efficiency.



About us

The Eckelmann Group presents itself as a full-service provider for industrial automation and digitalization. As specialists for the requirements of the pharmaceutical industry, biotechnology and medical technology, Eckelmann engineers offer industry-specific solutions from a single source: consulting, individual hardware and software solutions, turnkey automation systems, lifecycle management and smart service.

It goes without saying that we are **ISO 9001** certified. We also demonstrate quality management and certifications in the regulated environment, for example with **ISO 13485** as a supplier of medical technology, **ISO 62304** (medical device software), processes for **GMP/GAMP 5** and the manufacture of electrical equipment in accordance with **CE, UL** and **UKCA**.



Sites & partnerships – national & international
480 + employees



Talk with us.

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