We've got it under control.

Precise gas flow control for fermentation processes with innovative mass flow controllers.

bürkert
FLUID CONTROL SYSTEMS

Fermentation processes involving microorganisms such as bacteria or mammalian cells play a prominent role these days in the production of medicines, chemicals, amino acids and much more. Maximum process control is a necessity even as early as during the research phase in the laboratory. The use of mass flow controllers for gassing systems in bioreactors guarantees maximum product quality and reproducibility. Thanks to state-of-the-art digital communication interfaces, the user also has maximum access to the process data.

Your benefits

Biocompatibility of the mass flow controllers guaranteed thanks to USP Class VI conformity.

Minimal effort involved in preparation for use thanks to ease of cable installation and commissioning.

Highest-quality materials are used where there is contact with the product to ensure reliable product quality.

Easy to maintain thanks to integrated configuration memory and intuitive "Bürkert Communicator" software tool.

Thermal sensors and direct-acting proportional valves provide maximum precision and quick reaction times.
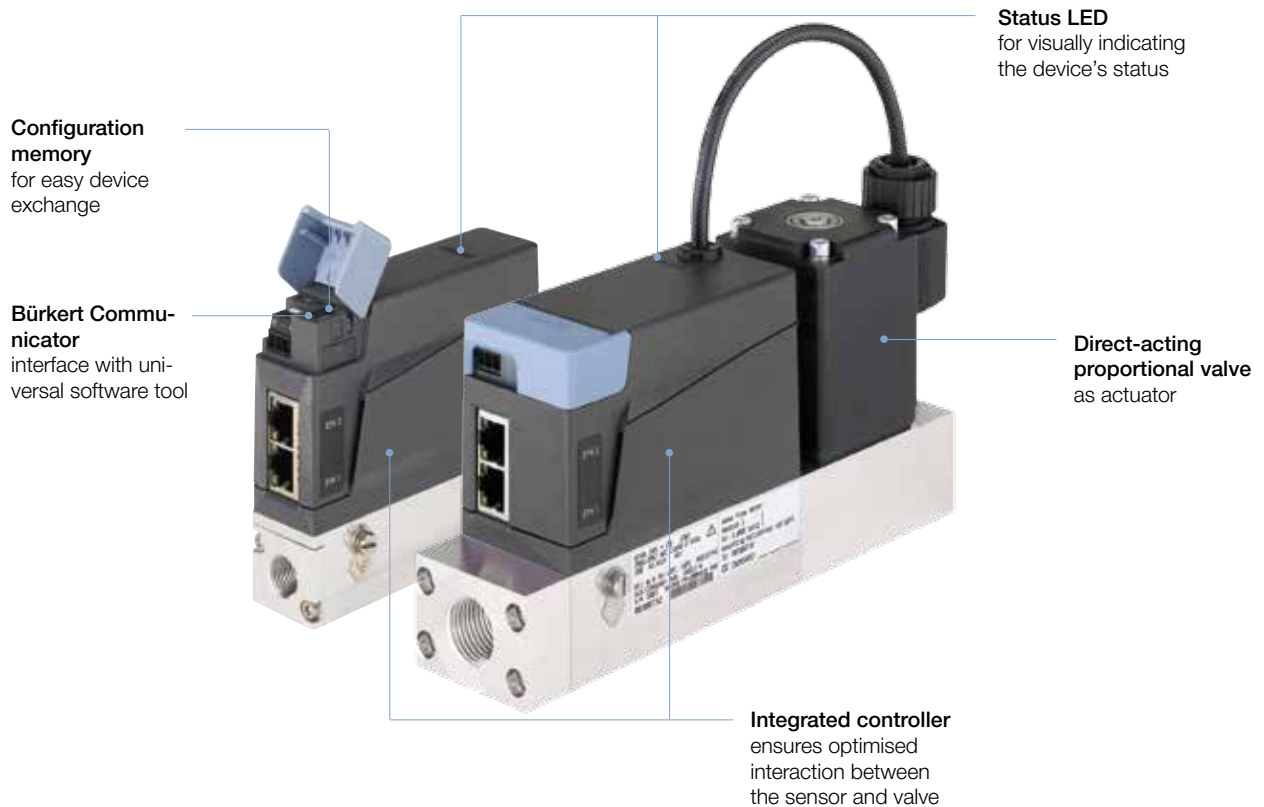
Complete system solutions can be developed in Bürkert Systemhauses all over the world.

The all-purpose solution for gas control
Type 8741 and 8745 mass flow controllers and meters

Thanks to a large number of available communication interfaces and support for a wide flow rate and pressure range, the type 8741 and 8745 mass flow controllers (MFCs) and meters (MFMs) are flexible "all-purpose" devices that can be easily integrated into a great variety of automation concepts. The intuitive "Bürkert Communicator" software tool also provides you with easy access to the device's configuration parameters.

Configuration memory
for easy device exchange

Bürkert Communicator
interface with universal software tool

Status LED
for visually indicating the device's status

Direct-acting proportional valve
as actuator

Integrated controller
ensures optimised interaction between the sensor and valve

Regardless of whether they are needed for new projects or for modernising existing machinery, the type 8741 and 8745 MFC/MFMs offer optimised integration for a wide variety of automation concepts and are therefore a truly all-purpose solution.

The available interfaces are:

- Industrial Ethernet: PROFINET, EtherNet/IP, EtherCAT, Modbus TCP
- Fieldbus: CANopen as well as PROFIBUS-DP via a gateway
- Standard signals: 0/4…20 mA, 0..5/10 V (switchable)