

LEGIONELLA EST. 1932
CONTROL SYSTEMS

Smart Circulation Control System



888-416-8626



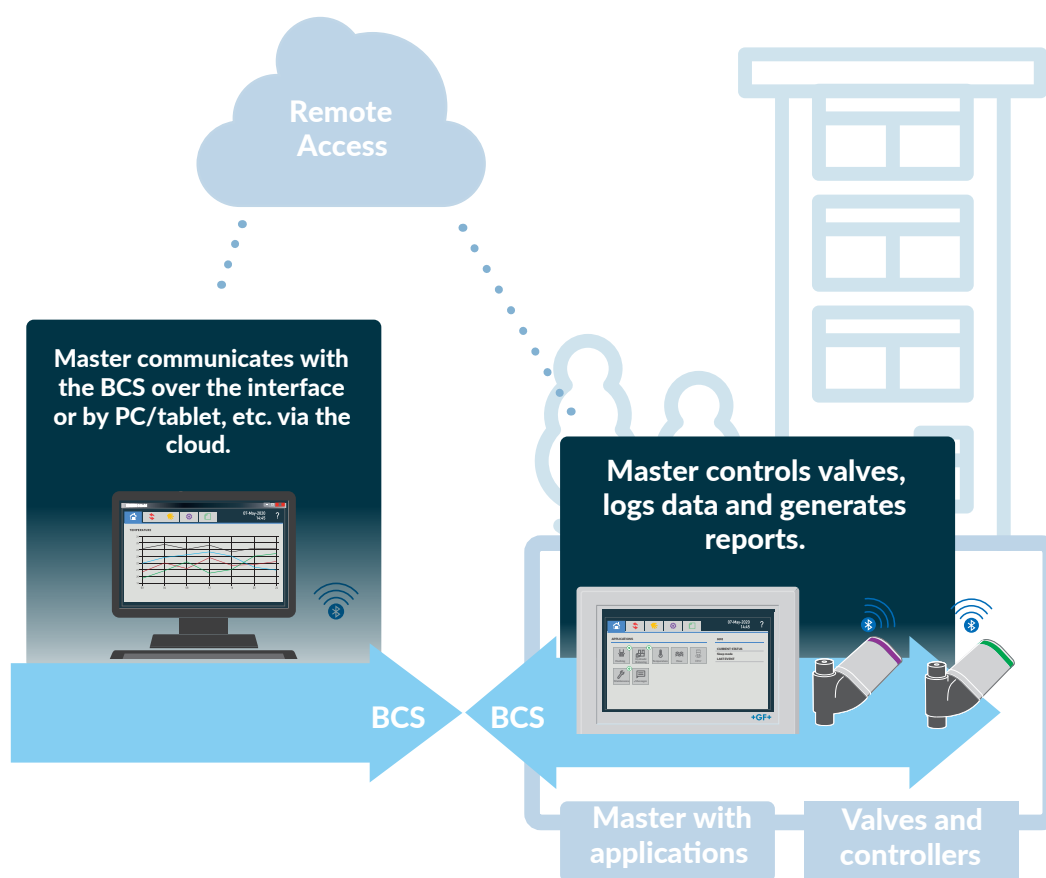
info@legcs.com

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Control, analyze and optimize the drinking water installation

The Automation System makes it easier to maintain drinking water hygiene and can optimize energy consumption. It ensures hydraulic balancing and constant water temperatures, flushes the pipes, logs all data and is easy to install and commission.

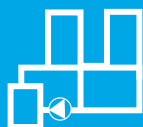
Valves and sensors are connected via a central control unit. This monitors the sensors, signals any abnormalities and controls the system. It can also be operated from any location using remote access and can be integrated into the building control system.



Applications

Hydraulic balancing

- According to temperature, dynamic
- According to temperature and flow, static
- Constant
- Thermal disinfection



Flushing

- Temperature-controlled flushing
- Time-controlled flushing
- Consumption-controlled flushing



Actuator automation

- Simple programming of actuators by system relay or 4-20mA signal
- Triggers: time, alarm, temperature, etc.



Your Benefits

Important contribution to drinking water hygiene

- Consistently high temperatures and regular water exchange.
- Prevention of biofilm formation and Legionella infestation thanks to hydraulic alignment and automatic flushing.
- Automatic alerts in case of malfunctions or abnormalities.

Energy saving potential

- Lower temperatures for the production of hot water thanks to optimal hydraulic balancing.
- Optimization recommendations for reducing energy consumption can be deduced from the analysis and evaluation of the logged data.

Enhances comfort

- Fast discharge times of the desired water temperature with sufficient water pressure thanks to continuous hydraulic balancing.

Easy to use

- The system handles the hydraulic balancing process and prepares all data in an easy-to-use report. Simple commissioning with just one cable and the plug&play function.
- Intuitive user interface and clearly arranged logs help with operation and evaluation.

Data login Protokoll

All data saved in comprehensive logs



Maintenance

Weekly automated maintenance process



User-defined messages

- Alert via e-mail or SMS
- Requires remote access
- Users can define their own alert



Components



Automation Master

Central control of all valves in the drinking water system and monitoring of flow and temperature sensors. Touchscreen with clearly arranged and intuitive user interface and plug&play commissioning.



Electronic circulation regulating valve and flushing valve

Gunmetal valves with integrated controller for connectivity with the master for circulation and flushing. The valves are supplied with a suitable insulation box.



Cable

Simple wiring, prepared connectors, faultless wiring by the installation engineer.



Uni Controller

Universal junction box for connecting external sensors such as motors, circulation pumps or other valves.

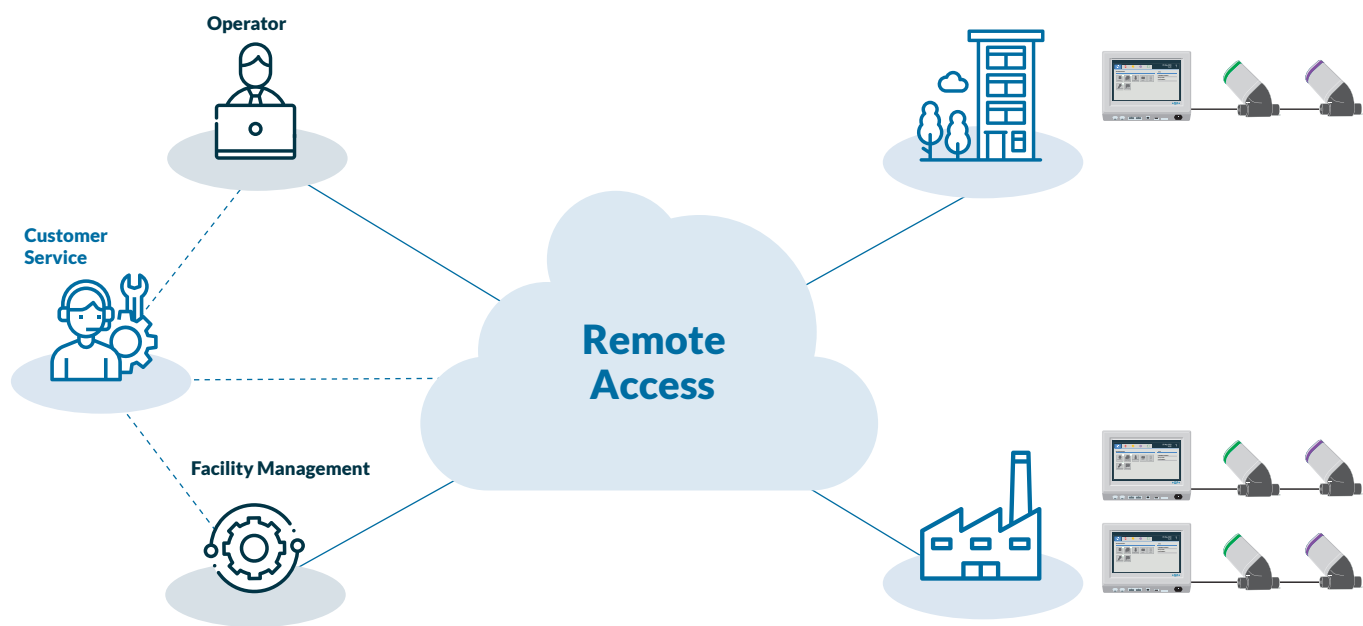


Sensors

Flow sensor for measuring the volume and speed of the water, T-sensor for temperature and drain monitoring for a safe flushing process.

Remote Access

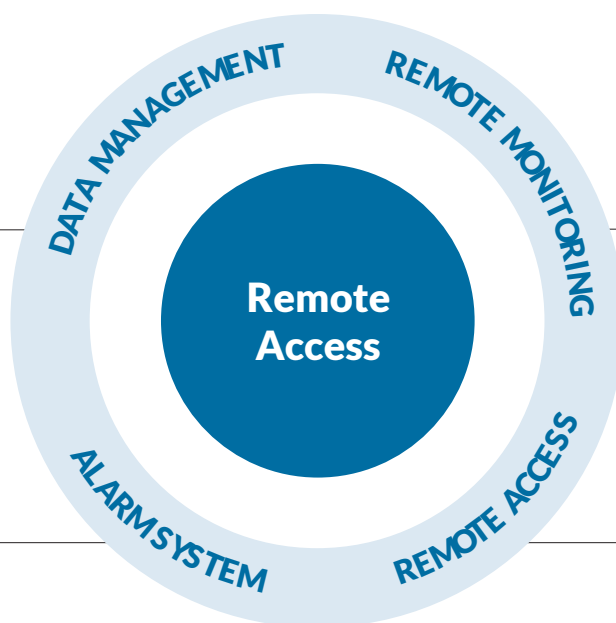
Achieve remote access to the Automation System via secure connection from anywhere in the world. Connected drinking water installations can be conveniently controlled and monitored. Reporting and alarm systems help ensure system operability and highlight optimization potential. In case of problems, the GF Service technician provides support via remote access.



Benefits

- Online data storage
- Easy report creation
- Asset Management
- Everything in one place

- User-specific setup according to limit values or events
- Automatic notification by e-mail or SMS



- Online display of values in realtime or historically
- Clearly arranged dashboards
- Status of the installations at a glance
- Installation diagram with real-time data

- Secure access to process data
- Online adjustment to parameters