



## AirLINE SP

The new valve island is compatible with Siemens SIMATIC ET 200SP

**bürkert**  
FLUID CONTROL SYSTEMS

The new AirLINE SP valve island from Bürkert is designed for optimal compatibility with the Siemens SIMATIC ET 200SP I/O system. Whether for standard digital / analogue input modules or controlling actuators via digital / analogue output modules: everything is integrated in one compact, high-performance automation system.

### Your advantages

#### Process reliability for your plant

- Optimally compatible system
- Integrated check valves: prevent unwanted valve switching, which can result from uncontrolled pressure peaks
- Support for ring topology with MRP (Media Redundancy Protocol): redundancy prevents total failure in case a single device / communication client fails
- Integrated safety function: in combination with Siemens modules the valve island can implement fail-safe automation tasks

#### Saves time during commissioning and maintenance

- Fast configuration via Siemens TIA Portal ensures easy commissioning
- Two-line LCD with alphanumeric display: fast information on device status
- Hot swap function: change valves during operation with no plant downtime

## Example applications

Type 8647 AirLINE SP is designed for space-saving installation in control cabinets by means of DIN rail mounting.

### Example application: drinking water supply

In waterworks, all steps in the water treatment process, such as filtration and ion exchange, are generally executed as separate automated processes. A separate control cabinet with a valve island that controls the connected actuators is therefore required for each step in the treatment process. This is necessitated by the stringent requirements for reliable operation of the overall plant (100% redundancy), in order to guarantee the continuous availability of high-quality drinking water. Plant availability is also important in case of maintenance procedures or unforeseeable incidents such as natural disasters or malfunctions in other waterworks.

### Example application: process water for hygienic applications

Automation of actuators for process water in the pharmaceutical and food & beverage industries is achieved either by one large, central control cabinet or by smaller control cabinets distributed throughout the plant. The new valve island type 8647 is used in both automation methods. With the integrated safety function, automation tasks can be implemented in a fail-safe manner.

In standard central automation the valve islands are remote from the actual process. The advantages of this are fast and easy maintenance, since all control units are accessible at a single location. In distributed automation the control cabinets, along with the valve islands, are more compact and are located very near to the process. This improves the response time of the connected valves and reduces the expenses for cables and installation.

Treated process water is used for cleaning processes in the production of medications, foods and beverages, for example, or it can also be an ingredient in medications and foods.

## Versions & options

### Communication interfaces

- PROFINET IO, PROFIBUS DP
- A complete line of SIMATIC ET 200SP modules is available

### LC-Displays

To show ...

- Pilot valve + process valve status
- Wire breakage | Short circuit | Pressure values
- Other individually configurable warnings and messages

### Safe shut-off

- by module: shutdown of 4 or 8 valve positions
- by channel: shutdown of single valve (Types 6524+6525)

Valve island Type 8647  
AirLINE SP



### Modular expandability

- Input modules such as manometers and pressure sensors

### Pneumatic functions

- Hot swap function
- Check valves