ALTON




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## ABOUT US

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# ALTON

Alton Automation GmbH is an engineering, systems integration and manufacturing company specializing in process automation systems and the development of Industry 4.0 (Water 4.0) infrastructure.
These systems include instrumentation, pressure and flow control systems, telemetry and SCADA solutions.
Our highly qualified specialists provide professional support for the engineering, procurement, integration, manufacturing and development of fluid control systems for industries, EPC contractors, production line and machine builders.
We focus on three key process segments:

- Transmitters
- Actuators and control valves
- Controllers and data monitoring systems

Alton products are known for their cost effectiveness and superior performance, making them a suitable choice for a wide range of applications where precision and durability are required. The products' high reliability and long service life result in low maintenance and replacement costs.



**Sustainable Thinking, Responsible Acting**

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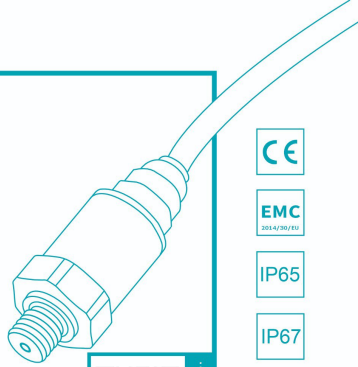
## Pressure Transmitters

Alton pressure transmitters are reliable instruments for measuring pressure in industrial environments. Their compact design and high-quality manufacturing make them suitable for integration into a wide range of machine designs and process automation applications.

Their versatility is further enhanced by the availability of different models for various industrial applications, a wide range of measuring ranges, and diverse process and electrical connections.

The processing of the sensor signal is done by newly developed digital electronics, and sensor-specific deviations, such as non-linearity, hysteresis, and temperature errors, are actively compensated.



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## Level Transmitters

Alton level transmitters are reliable instruments for measuring liquids level in atmospheric tanks by submersible installation and measuring the hydrostatic pressure of the tank.Their compact design and high-quality manufacturing make them suitable for integration into a wide range of process automation applications.The processing of the sensor signal is done by newly developed digital electronics, and sensor-specific deviations, such as non-linearity, hysteresis, and temperature errors, are actively compensated.

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## Industrial Indicators

Alton industrial indicators are available in two different types: panel mount and top mount. These indicators are used for the following purposes:

- Local indication of the measured quantity in real scale
- Process-based alarms and digital contact generation
- Isolated and corresponding analog signal generation
- Digital data generation



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## Power Supplies

Alton power supplies with standard features, compact design and smart diagnostic functions are good solutions for powering control cabinets and all industrial applications that require reliable and stable 24VDC power.



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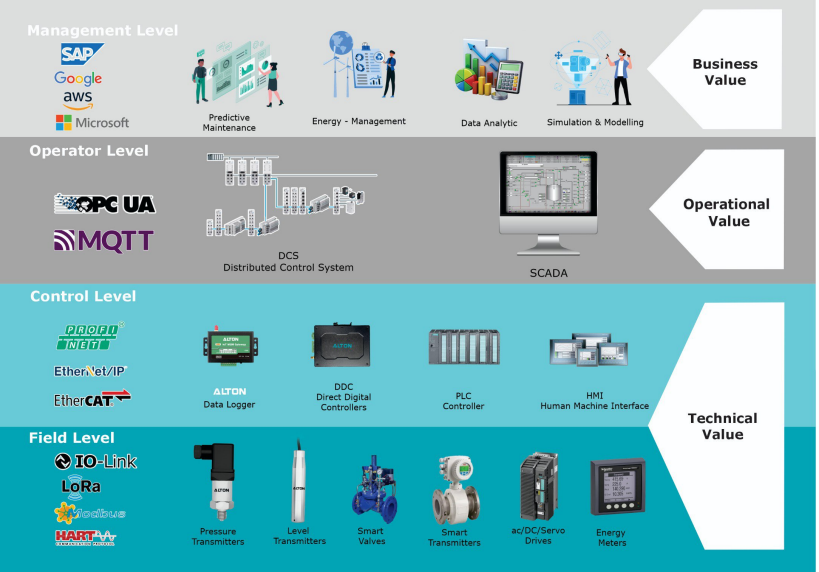
## Data Loggers and monitoring systems

Alton Data Loggers are specialized electronic devices designed to record data over time. In industrial applications, they are invaluable tools for monitoring, analyzing and optimizing processes independently of control systems.
This product supports multiple data communication protocols, including Modbus TCP, HTTP POST, and MQTT.
Alton also provides industrial monitoring, SCADA, and telemetry solutions on local or cloud server platforms for all data gathered by dataloggers, RTUs, and control systems. Information required by operators, supervisors, and managers is defined with access levels and prepared and delivered in the required format.

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To **Value**

ALTON

FROM **Data**

## Reliable and sustainable infrastructure for

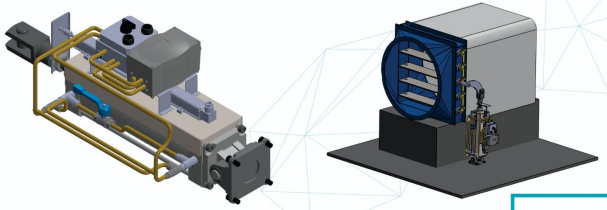
**WATER 4.** **industry 4.** **ENERGY 4.**

- Engineering & Design
- Procurement
- Built & Montage
- Programming
- Commissioning Running & Delivery

1. Provide customized, technology-neutral, and up-to-date solutions , requiring no engineering effort from you, backed by expert support from the start.
2. Cost reduction through single sourcing by eliminating the need for individual component procurement and logistics.
3. complete, tested, and easy-to-service solutions without in-house production effort.
4. fully tested, certified solutions with complete documentation ready for seamless integration
5. Smooth delivery, rapid assembly, and optional commissioning — ensuring a quick and efficient start-up at your site.

## Damper Actuators

Alton damper actuators offer a reliable solution for actuating industrial dampers and integrating them with control systems. These actuators are electro mechanical devices that utilize compressed air or oil pressure to adjust the position of dampers. Hydraulic damper actuators are particularly suited for dampers requiring high force to move or applications where access to compressed air is limited. Consequently, pneumatic actuators are the most widely used type of actuators in industries.



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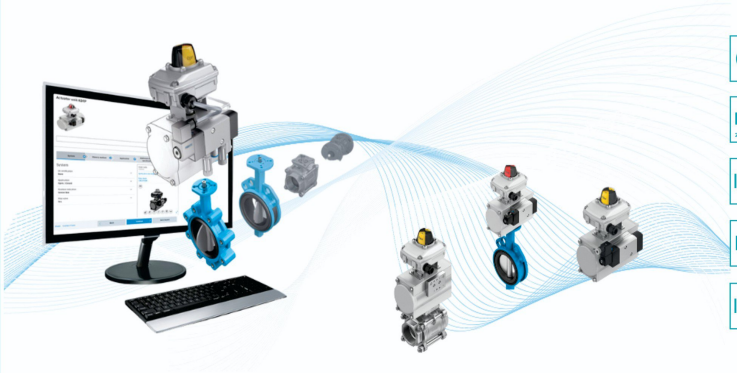
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## Actuated and Control Valves

Alton actuated and control valves play a vital role in industrial processes, where they are utilized to regulate the flow or pressure of fluids or gases.To ensure the optimal selection of components, we collaborate with a network of highly skilled manufacturers of valves, actuators, positioners, transmitters, and sensors. This collaboration ensures that all process and project limitations and compatibility by type of fluid and the working and environmental conditions of the valve are Considered for Solutions . We ensure that final integrated products are tested and delivered to the customer in accordance with the highest standards.

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## Ready to install control Cabinets

Alton ready-to-install control systems require minimal engineering services, enhancing efficiency and convenience. Our expertise in process automation and fluid pressure and flow control enables us to deliver customized control and automation solutions tailored to your specific process requirements. These solutions are offered in the form of ready-to-install control panels, ensuring swift and seamless integration into your existing infrastructure.

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## Applications

- Industrial gases (Ar, N2, Air, ...) blowing systems.
- filtration systems (sand, chemical, ultrafilter and reverse osmosis).
- Compressed air material transfer systems.
- Water, sewage and wastewater treatment plants.
- Dryer and compressed air preparation systems.
- And most other industrial processes.

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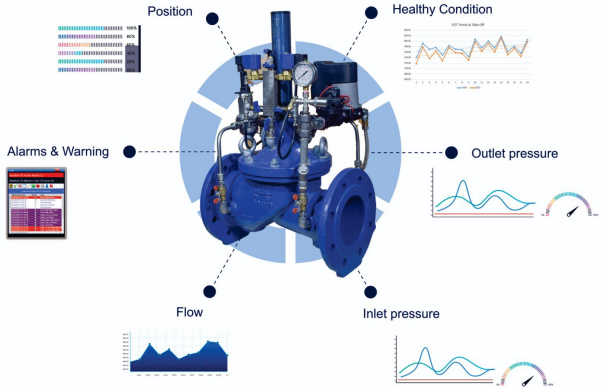
## Smart valves

Alton smart valve controller is an AI-based controller that provides Modern valve control for a variety of fluid control parameters on different valve types from any valve manufacturer.

- Outlet Pressure / flow Control
- Condition monitoring
  - Inlet pressure
  - Outlet pressure
  - Valve position
  - Valve health condition
- Flow rate calculation
- Total flow calculation
- Breaking line detection or Other Virtual Parameters
- Emergency conditions reaction
- Predictive maintenance management

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## Real and Virtual Parameters




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## Educational Equipment

Industry 4.0 represents the digital transformation of industries through automation, IoT, and big data, with "Water 4.0" applying these technologies to optimize water management.

Alton Automation recognizes the challenges of this shift and has developed advanced educational tools to help students, technicians, and engineers master automation and instrumentation principles, specifically within water systems.

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## Key Features of Our Educational Equipment

Our educational equipment meets European industrial standards, ideal for universities and training centers. It simulates water industry processes, integrates with PLCs, and includes training loops for control systems. Customizable and expandable for Industry 4.0 and Water 4.0, these systems prepare the next generation of water sector professionals.



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