Pressure Controllers

Responsive and stable pressure control in milliseconds





Single-valve pressure controllers



Dual valve controller proportionally controls exhaust and minimizes waste from bleed valves



With a remote sense port, control pressure anywhere in your system



High flow controllers feature frictionless proportional Rolamite valves



PC-EXTSEN

Connecting to an external sensor with serial/analog works well with vacuum or distant volumes. Can also be configured as dual valve for differential pressure control.



Electronic pressure gauge with useful Alicat features, like digital display and communications protocols

Pressure Controllers

Rock-steady control in an instant.

Better Control

- 50-100 ms control response
- Tunable PID control loop
- Dual valve system minimizes wasted gas with fast, stable, proportionally controlled exhaust
- Control pressure at any point in system with remote sense port
- Customizeable valves
- Control at variable flow rates

Quick Specs

- Accuracy: 0.25% (NIST-traceable). High accuracy: 0.125%.
- Repeatability: 0.08% of reading.
- Operating ranges: 0.5% to 100% Full Scale (200:1 turndown ratio).
- Communications: Analog and serial on every device
- Lifetime Warranty

Accessory and Customization Options



- Optional remote displays
- Remote electronics option: separate the electronics package from the flow body.
- Connection hub: BB9 Box for talking to multiple units over serial communication.
- Software: Flow Vision SC programs and monitors controllers from a computer
- CSA and ATEX: for operating in hazardous environments
- · Cables of many types. Connect controller to a computer USB serially
- International power supplies
- Industrial communications: EtherNet/IP, DeviceNet, PROFIBUS, or Modbus

Selected Applications



Filter Characterization

Characterize a filter's flow versus pressure drop curve by fixing the differential pressure across the filter using the pressure controller. The mass flow meter displays the resulting flow rate at a given pressure drop. More online ...



Faster Leak Checking

Establish stable pressure for the leak check by measuring pressure precisely at the device under test with Alicat's PC3-series pressure controller with remote sense port. This method negates the pressure drop induced by the mass flow meter that is measuring the leak rate. More online ...

See additional topics online: Fluid dispensing using pressure control

- Dead-ended pressure control with remote sensing port
- Vacuum coating with pressure control