

SP200

electropneumatic smart positioner



spirax
/sarco

SP200

The new generation of non-contact smart positioners

SP200 positioner – smart, simple, low cost

The precise control of valve position is essential for the accurate and efficient control of industrial processes. Valve positioners provide the electropneumatic interface, guaranteeing fast and accurate control by eliminating hysteresis and the effects of differential pressure whilst optimising actuator selection.

Smart

The Spirax Sarco SP200 positioner is enhanced by the ability to customise the control action, set travel limits and monitor valve position. The embedded menu driven program, accessed via the integrated keypad, eliminates the need for additional or remote software. Data logging of valve performance will assist maintenance diagnostics whilst adaptive action helps to compensate for changes in supply air pressure and stem friction. Having travel switches and a 4-20 mA retransmission as standard it is easy to monitor the valve in operation.

Simple

All SP200 units are supplied with a universal mounting kit making them quick and easy to assemble. They operate on a non-mechanical magnetic feedback system which is very easy to set-up and will not suffer wear, vibration or dirt problems. A simple autostroke routine makes it extremely quick and easy to commission and the keypad provides trouble free navigation through the menu system. Manual operation is available at the touch of a button.



Low cost of ownership

Options which were previously offered at extra cost are now included as standard. The new digital technology which is used in the SP200 makes it very energy efficient, there are very few mechanical elements and the effects of wear are significantly reduced, all contributing to guaranteed long-term reliability and reduced lifecycle costs.

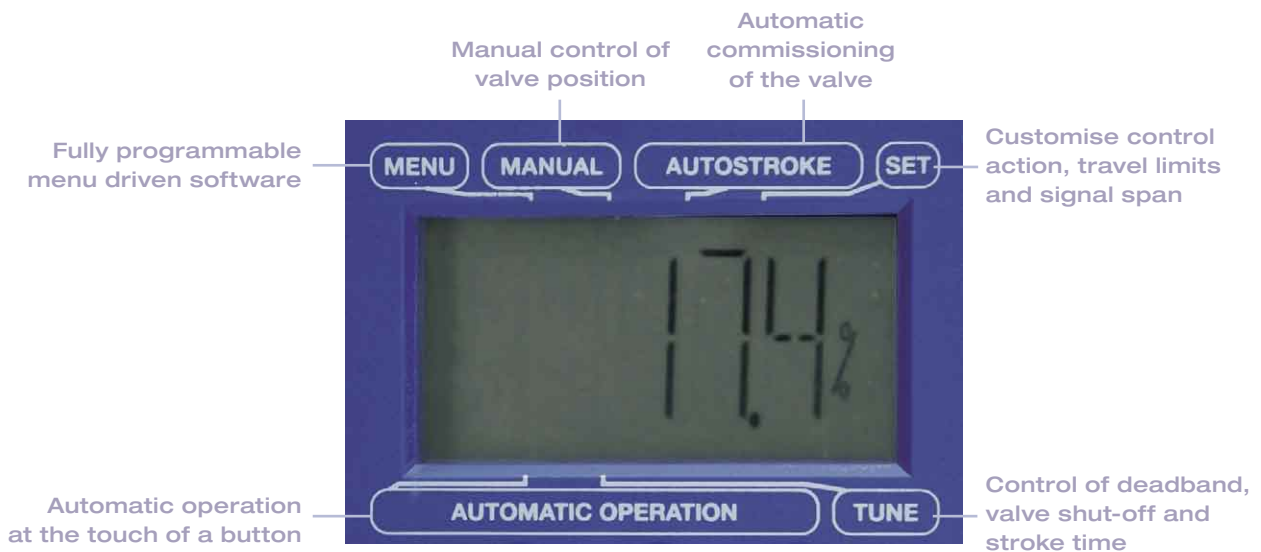
Proven technology

The SP200 loop powered smart positioner is a development of the very successful SP2 model, which is widely acknowledged to have set the industry standard for being one of the easiest positioners to commission.

Key features and benefits:

- All the user friendly features of the SP2 are retained In the SP200:
 - Autostroke.
 - Easy customisation of performance through menu driven embedded software.
 - Digital air control to minimise running costs.
 - Adaptive action to compensate for process variations.
 - Continuous data logging of valve performance.
- Utilises a non-contact hall effect magnetic feedback linkage. This detects changes in magnetic flux when the control stem moves, then feeds it back to the positioner so that it can regulate the air signal to the actuator.
- Larger, easier to read digital display and enhanced reliability due to the elimination of most mechanical elements.
- Travel switches and 4 – 20 mA retransmission as standard.

The SP200 digital display



Digital indication of % travel



On screen commissioning aids include input signal, software travel switch status and valve diagnostics



Embedded menu driven programmable software



The SP200 range

| Product | Input signal range | Stroke range | Characteristic | Travel switch and 4 – 20 mA retransmission feature | Enclosure rating | Namur specification fixing kit | Gauge block with two 0 to 7 bar gauges |
|---------|--------------------|--------------|-------------------------------|--|------------------|--------------------------------|--|
| SP200 | 4 – 20 mA | 10 to 100 mm | Equal %, fast opening, linear | Included | IP65 | Included | Not included |
| SP200M | 4 – 20 mA | 10 to 100 mm | Equal %, fast opening, linear | Included | IP65 | Included | Included |

Electropneumatic smart positioner

SP200



Electropneumatic smart positioner with gauge block

SP200M



Key features and benefits

| Key feature | Key reason | Key benefit | |
|---|---|--|---|
|  | Quick and simple to commission | Autostroke commissioning feature | Reduces time and cost |
|  | Significant reduction in time and complexity to install. Unaffected by vibration, dirt or susceptible to wear. | Hall effect magnetic valve position sensing, no mechanical feedback linkage | Reduces time and cost to commission, improved reliability and accuracy |
|  | Energy efficient | Digital air control, near zero air consumption at controlled position | Low running costs |
|  | Programmable functions via integral keypad | Easy and quick to commission, easy optimisation of valve performance | Control application optimised to application requirement |
|  | Easy local monitoring of valve/actuator/positioner | Large digital display and on screen commissioning which includes valve position, travel switch mode, input signal status and diagnostics | Enhanced process control information for the user |
|  | Even more features as standard | Travel switches and 4 – 20 mA retransmission features included as standard | Simpler selection, greater flexibility, better value for money |
|  | Easy monitoring of air signals allows easy set up and diagnostics | Manifold and gauges available on SP200M | Quick to commission, easy to monitor air supply |
|  | One model suits most positioner applications | Compatible with many pneumatic actuator types | Commonality of equipment, reduced supplier base |
|  | Part of a total control solution from Spirax Sarco | One of many controls and implementation solutions which may be acquired separately or as a complete one-stop-shop controls solution | Peace of mind that your purchases are supported wherever you are in the world and that one single contact will fulfil your controls requirements from design to after sales service |

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Some products, services or solutions may not be available in certain markets

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