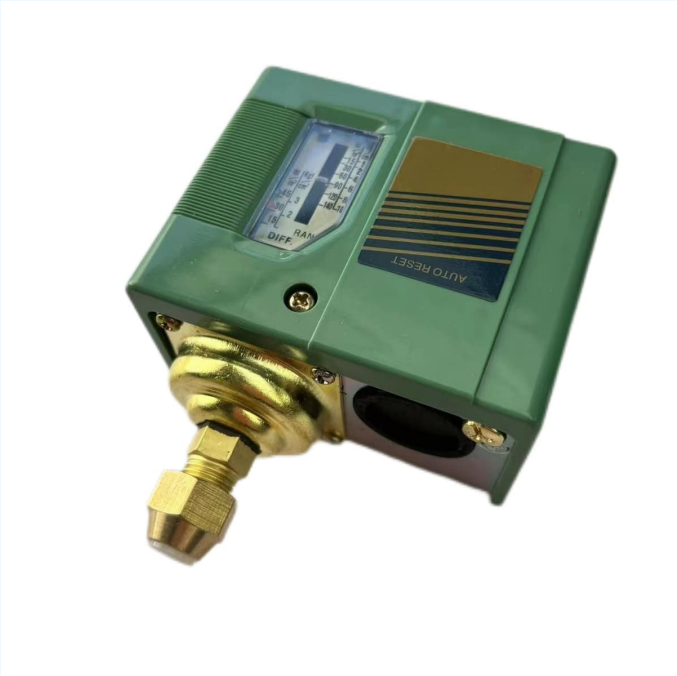
PRODUCT MANUAL

Pressure Controller - S/D Series

Model: S102X – S130X



CATEGORY
Pressure & Temperature Controls

MODEL
S102X – S130X

ISSUE DATE
2026-11-19

1. Product Overview

The S/D series is the heavier pressure controller for plant where the KP range is not robust enough, or where the switching point has to be set and locked. The bodies are larger, the bellows are rated higher, and the models are split into low pressure (S102X to S110X) and high pressure (S120X and S130X) versions.

Low pressure models run from -0.02 to 1 MPa with differentials from 0.025 to 0.3 MPa, and the high pressure models from 0.5 to 2 MPa or 0.5 to 3 MPa with differentials up to 1 MPa. Factory settings are published per model, so a replacement can be ordered already set to the original duty - useful where the equipment is in a remote location and a technician will not be revisiting.

Maximum bellows pressure is 1.65 MPa on the low pressure and S110X models, and 4 MPa on the high pressure models, which gives a generous safety margin over the working range. The connection is 1/4 inch NPT, 1/4 inch G, or a capillary, and the allowable fluid temperature is -45 C to +120 C - wider than the KP range, so the same controller suits freezer plant and hot gas lines.

Two features are worth knowing. The micro-switch is a renovated structure with a defined snap action, which matters on plant where the switch operates frequently. And the controller has a manual test function, so the cut-out can be proved during a service visit without valving off the system - on a pump-down circuit that is the difference between testing the safety device and assuming it works.

Mount with the diaphragm vertical where possible, and protect the capillary from vibration.

2. Key Features

- For fluorinated refrigerants as well as air and liquid
- SPDT contact mechanism with several contact function options
- Renovated micro-switch structure for reliable switching
- Manual-controlled with test function, no extra instrument needed
- Flexible mounting plate suits different installations

3. Technical Specifications

Item	Specification
Model range	S102X, S103X, S106X, S110X (low); S120X, S130X (high)
Pressure range	-0.02 – 3 MPa
Differential range	0.025 – 1 MPa
Factory setting	OFF 0.025 – 2 MPa; ON 0.05 – 2.5 MPa
Max. bellow pressure	1.65 MPa (S10x/S11x); 4 MPa (S12x/S13x)
Connection	1/4" NPT, G1/4" or capillary (special on request)
Allowable fluid temperature	-45 ~ +120 °C

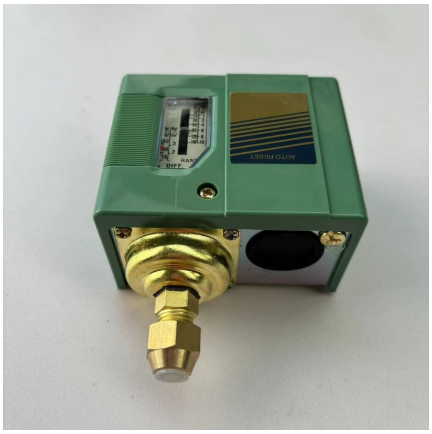
4. Commercial Terms

MINIMUM ORDER **Negotiable**	LEAD TIME **Negotiable**
SHIPPING PORT **Shanghai / Ningbo, China**	PLACE OF ORIGIN **China**
PAYMENT TERMS **T/T, L/C**	SUPPLY ABILITY **Negotiable**

5. Product Gallery









Contact us for a free quotation

Our engineering team replies within 24 hours with selection advice and an FOB / CIF quotation.



E-MAIL	hope@quitecoolhvacr.com
PHONE / WHATSAPP	+86 15258555916
WEBSITE	www.quitecoolhvacr.com
ADDRESS	NO.231,Jiaozhen Village, Ganlin Town Shengzhou City,Zhejiang Province,China