

# S-224 Pneumatic Gradual Switch

## Description

The Johnson Controls® S-224 Pneumatic Gradual Switch provides manual selection of the pressure in air lines from a remote location. The S-224 is a proportional action relay type switch that maintains a selected output pressure setting until it is readjusted. The setting can range from 0 to full supply pressure up to 20 psig. The extremely stable output of the S-224 makes the switch ideally suited for position controlled devices or for use as a remote pneumatic set point adjuster.

A model is available with 2 psi span per dial revolution of 300 angular degrees. Graduated dials are available with various inscriptions to adapt the switches to a broad range of functions. The 2 psi span switch can be used with 0 to 20 or 6 to 12 psi span dials.

Refer to *S-224 Pneumatic Gradual Switch Product Bulletin (LIT-7171370P)* and *S-224 Gradual Switch Dials Construction Bulletin (LIT-7171370X)* for important product information.

## Selection Chart

### S-224 Pneumatic Gradual Switch

Code Number	Description
<b>Span per 300° knob rotation with range of 0 to 20 psig:</b>	
S-224-1 <sup>1</sup>	20 psi Span
S-224-2	2 psi (Adjustable over Range)

1. Order Dials Separately

### Accessories for S-224 Pneumatic Gradual Switch

Code Number	Description
<b>S-224 Dials; 180° Knob Rotation – 12 psi Span:</b>	
S-224-50	Temperature Increase (CW)
S-224-51	Pressure Increase
<b>S-224 Dials; 225° Knob Rotation – 15 psi Span:</b>	
S-224-53	Temperature Increase (CW)
S-224-54	Pressure Increase (CW)
<b>S-224 Dials; 300° Knob Rotation – 20 psi Span: <sup>1</sup></b>	
S-224-58	Temperature Increase (CW)
S-224-61	Temperature Increase (CCW)
S-224-59	Pressure Increase (CW)
S-224-60	Humidity Increase (CW)
S-224-63	Open-Closed
S-224-64	Closed-Open <sup>2</sup>

1. 2 PSI per 300° Rotation

2. Damper Position Inscribed Across Dial

## Features

- adjustable setting from 0 to 20 psig (140 kPa)
- available with 2 psig (14 kPa) span per dial revolution of 300 angular degrees, which can be set anywhere between the 0 to 20 psig
- graduated dials are available with various inscriptions to adapt the switches to a broad range of functions
- mounts flush on a control panel with a maximum thickness of 1-1/16 inch (27 mm)

## Repair Information

If the S-224 Pneumatic Gradual Switch fails to operate within its specifications, replace the unit. For a replacement switch, contact the nearest Johnson Controls representative.



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