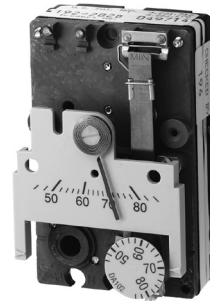


## Powerstar Single Setpoint Pneumatic Room Thermostat



192 S Thermostat chassis.



Typical wall plate and screws.

### Description

Providing proportional single output, single setpoint, 1-pipe for low air capacity or 2-pipe for high air capacity pneumatic room temperature control, the 192 S Powerstar Single Setpoint Pneumatic Room Thermostat is the most economical model. Refer to the Retroline® Retrostats on page F-15 to replace competitive models.

### Features

- Single setpoint dial available in Fahrenheit or Celsius scales
- Available in direct or reverse acting models
- Sensitive bimetal responds to temperature changes
- Integral, field adjustable limit stops
- Wall mounting plate for connection to a variety of rough-in terminal boxes included
- Large volume air capacity relay in 2-pipe models only
- Test port for fast check of output pressure without removing the cover
- Field replaceable thermometer, setpoint dial, restrictor and filters for decreased maintenance cost

### Options

- Quick-connect air connections for ease of installation and service
- Fixed limit stops to meet government specifications
- Large, 1/2" setpoint knob for convalescent homes

### Applications

Designed for heating and cooling applications for control of pneumatic valves and damper actuators. The 192 S Powerstar Single Setpoint Pneumatic Room Thermostat is excellent for commercial and institutional facilities.

### Recommendation

**1-pipe:** Use when limited output air capacity is required to operate a single valve and/or actuator; requires external restrictor, 20 scim (5.4 ml/s) air supply.

**2-pipe:** Use for high output capacity for control of multiple valves and actuators, used with or without high/low limiting controls.

### Application Drawings

Dotted lines are alternative control schemes.

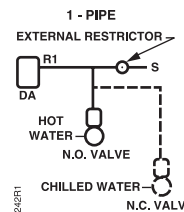


DIAGRAM 1.

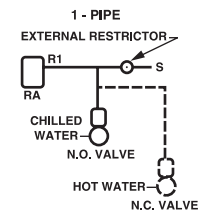


DIAGRAM 2.

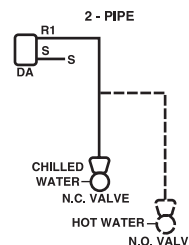


DIAGRAM 3.

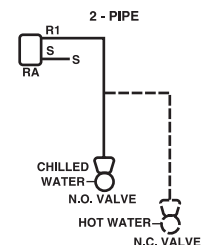


DIAGRAM 4.

# 192 S Thermostat Specifications

▶ For complete conversion kits, refer to the Retroline® Retrostats starting on page F-15.

**Scale; Range**  
 Major (minor) Divisions..... 45 to 85°F, 10(2)°F  
 (7 to 30°C, 5(1)°C)

**Factory Calibration** ..... 72°F, 7.5 psi ±0.3  
 (22°C, 52 kPa @ 1.8)

**Sensitivity Adjustment Range** ..... 1 to 4 psi/°F (12 to 50 kPa/°C)

**Factory Setting** ..... 2.5 psi/°F (31 kPa/°C)

**Limit Stop**  
 Field Adjustment Range ..... 45/85°F (7/30°C)  
 Fixed Limit Stop Range ..... 55/75°F (13/24°C)

**Temperature**  
 Storage..... -10 to +140°F (-23 to +60°C)  
 Ambient Operating ..... 40 to 140°F (4 to 60°C)

**Accuracy at Factory**  
 Calibration ..... ±2°F (±1.1°C)  
 Response ..... 0.1°F (0.06°C)

**Supply Air Pressure**  
 Recommended..... 25 psi (172 kPa)  
 Maximum..... 30 psi (207 kPa)

**Nominal Air Consumption for Air Compressor Sizing**  
 1-pipe ..... 25 scim (6.8 ml/s)  
 2-pipe ..... 20 scim (5.5 ml/s)

**Nominal Air Capacity for Air Main Sizing**  
 1-pipe ..... 25 scim (6.8 ml/s)  
 2-pipe ..... 20 scim (5.5 ml/s)

**Nominal Chassis Air Capacity**  
 1-pipe Supply ..... 25 scim (6.8 ml/s)  
 2-pipe Supply ..... 230 scim (63 ml/s)  
 1-pipe Exhaust ..... 30 scim (8 ml/s)  
 2-pipe Exhaust ..... 150 scim (41 ml/s)

**Air Connections** ..... 5/32" (4 mm) OD tubing

**Dimensions (with cover)** ..... 2.16" W x 3.34" H x 1.59" D  
 (55 mm W x 85 mm H x 40 mm D)

**Shipping Weights (with cover)**  
 Thermostat Chassis and Wall Plate ..... 0.53 lb. (0.24 kg)  
 Plastic Cover/Metal Cover ..... 0.07 lb. (0.04 kg)/0.27 lb. (0.12 kg)

# 192 S Thermostat Product Ordering

| Model #         | Thermostat Chassis Type |                       |                       |                               | Thermostat Chassis & Wall Plate |         |
|-----------------|-------------------------|-----------------------|-----------------------|-------------------------------|---------------------------------|---------|
|                 | Output                  | Setpoint              | Air Output Capacity   | Thermometer & Setpoint Scales | Control Action                  |         |
|                 |                         |                       |                       |                               | Direct                          | Reverse |
| 192 S<br>1-pipe | Single                  | Single (Heat or Cool) | Low (No Relay)        | °F<br>°C                      | 192-200                         | 192-201 |
|                 |                         |                       |                       |                               | 192-220                         | 192-221 |
| 192 S<br>2-pipe | Single                  | Single (Heat or Cool) | High (Integral Relay) | °F<br>°C                      | 192-202                         | 192-203 |
|                 |                         |                       |                       |                               | 192-222                         | 192-223 |

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Pneumatics

| Thermostat Covers (Sold Separately) |  | Plastic Part No. |          | Metal Part No. |
|-------------------------------------|--|------------------|----------|----------------|
|                                     |  | Desert Beige     | White    |                |
|                                     | <ul style="list-style-type: none"> <li>Adjustment setpoint concealed</li> <li>Indicator setpoint concealed</li> <li>Chassis thermometer concealed</li> <li>No logo</li> </ul>                    | 192-257          | 192-257W | 192-357        |
|                                     | <ul style="list-style-type: none"> <li>Adjustment setpoint concealed</li> <li>Indicator setpoint concealed</li> <li>Chassis thermometer concealed</li> <li>With logo</li> </ul>                  | 192-256          | 192-256W | 192-356        |
|                                     | <ul style="list-style-type: none"> <li>Adjustment setpoint concealed</li> <li>Indicator setpoint concealed</li> <li>Chassis thermometer exposed</li> </ul>                                       | 192-254          | 192-254W | 192-354        |
|                                     | <ul style="list-style-type: none"> <li>Adjustment setpoint key</li> <li>Indicator setpoint exposed</li> <li>Chassis thermometer concealed</li> <li>Use with 1/2" setpoint knob option</li> </ul> | 192-265          | 192-265W | 192-365        |
|                                     | <ul style="list-style-type: none"> <li>Adjustment setpoint key</li> <li>Indicator setpoint exposed</li> <li>Chassis thermometer exposed</li> <li>Use with 1/2" setpoint knob option</li> </ul>   | 192-266          | 192-266W | 192-366        |
|                                     | <ul style="list-style-type: none"> <li>Adjustment setpoint exposed</li> <li>Indicator setpoint exposed</li> <li>Chassis thermometer concealed</li> </ul>   | 192-250          | 192-250W | 192-350        |
|                                     | <ul style="list-style-type: none"> <li>Adjustment setpoint exposed</li> <li>Indicator setpoint exposed</li> <li>Chassis thermometer concealed</li> </ul>   | 192-252          | 192-252W | 192-352        |

**Note:** • "Exposed features" are indicated in red on corresponding illustration.  
 • Universal Cover sold on page F-83. For 194 refer to Powerstar Retroline section.