

T-4506

# **Dual Temperature Thermostat**

### Description

The T-4506 Thermostat is a high volume output, dual temperature, dual dial thermostat. The T-4506 provides individual day and night, or two set point temperature control.

Refer to T-4000 Series Pneumatic Room Thermostat Product Bulletin (LIT-7171060P) for important product information.

# **Repair Information**

If the T-4506 Dual Temperature Thermostat fails to operate within its specifications, replace the unit. For a replacement thermostat, contact the nearest Johnson Controls® representative.

#### Features

- available in Direct Acting (DIR) and ٠ Reverse Acting (REV) models
- includes Fahrenheit dial ٠
- direct acting available in vertical or • horizontal model
- reverse acting available in horizontal model
- available with optional manual indexing ٠ switch that permits you to restore the day temperature of the individual thermostat without affecting the other system thermostats
- Indexing switch can be unlatched manually or will automatically reset with the day cycle



T-4506 Dual Temperature Thermostat

# **Selection Charts**

T-4506 Dual Temperature Thermostat<sup>1</sup>

| Code<br>Number   | Description                                       |                                     |
|--|---|-------------------------------------|
| T-4506-201   | With Indexing Switch,<br>Switchover at 17 psig    | Direct Acting, Horizontal Mounting  |
| T-4506-202   |   | Direct Acting, Vertical Mounting    |
| T-4506-209   |   | Reverse Acting, Horizontal Mounting |
| T-4506-203   | Without Indexing Switch,<br>Switchover at 17 psig | Direct Acting, Horizontal Mounting  |
| T-4506-204   |   | Direct Acting, Vertical Mounting    |
| T-4506-217   |   | Reverse Acting, Horizontal Mounting |
| <ol> <li>Order cover and mounting bracket separately.</li> </ol> |   |                                     |

#### mmonly Used Accessories for T-4506 (Part 1 of 2)

| Commonly Used Accessories for T-4506 (Part 1 of 2) |                       |  |
|--|-----------------------|--|
| Code<br>Number                                     |                       | Description  |
| T-4002-124   |                       | Room instrument mounting bracket for<br>surface-mounting thermostats and<br>covers; includes drywall clips, spacers,<br>and mounting templates |
| T-4002-122   | 4                     | Terminal Connector, with two straight<br>fittings for plug-in connection to<br>5/32 in. O.D. polyethylene tubing                               |
| T-4002-123   | A.                    | Terminal Connector, with angle fittings<br>for surface mounted thermostats with<br>exposed tubing  |
| T-4002-5003  | Pins                  | Restricted adjustment pin (100/kit)<br>restricts adjustment of set point dial  |
| T-4002-5012  |                       | Adjusting knob kit provides a means of<br>external setpoint adjustment   |
| T-4000-2138  |                       | Beige Plastic Cover,<br>Horizontal or Vertical<br>(no thermometer, no set point windows)   |
| T-4000-2139  | Johnson W<br>Controls | Beige Plastic Cover, Horizontal<br>(no thermometer, no set point windows)  |
| T-4000-3139  |                       | White Plastic Cover, Horizontal (no thermometer, no set point windows)   |
| T-4000-2140  | Johnson 🐠             | Beige Plastic Cover, Horizontal,<br>thermometer (no set point windows)   |
| T-4000-3140  |                       | White Plastic Cover, Horizontal, thermometer (no set point windows)  |

| Code<br>Number |                      | Description  |
|----------------|----------------------|--|
| T-4756-2141    | Schraon W            | Beige Plastic Cover, Horizontal,<br>2 set point windows (no thermometer) |
| T-4756-1738    | Refrison Controls    | Beige Plastic Cover, Horizontal,<br>2 set point windows with thermometer |
| T-4000-2144    |                      | Beige Plastic Cover, Vertical<br>(no thermometer, no set point windows   |
| T-4000-3144    | Advason @<br>Cantons | White Plastic Cover, Vertical (no thermometer, no set point windows      |
| T-4756-2145    | Jerran (             | Beige Plastic Cover, Vertical,<br>2 set point windows (no thermometer)   |
| T-4756-1739    | Labras (             | Beige Plastic Cover, Vertical,<br>2 set point window with thermometer    |

Note: For additional accessories, refer to T-4000 Series Accessories.

# **Technical Specifications**

| T-4506 Dual Temperature Thermostat |   |  |
|------------------------------------|---|--|
| Sensitivity                        | Adjustable from .75 to 4.0 psig/°F (9 to 50 kPa/°C)<br>Factory set at approximately 2.5 psig/°F (32 kPa/°C) |  |
| Flow Capacity                      | 400 SCIM (107 mL/s)   |  |
| Air Consumption                    | 20 SCIM (5 mL/s)  |  |
| Supply Pressure                    | 13 to 25 psig (91 to 175 kPa)<br>Nominal Day 15 psig (105 kPa)<br>Nominal Night 20 psig (140 kPa)           |  |
| Dial Range                         | 55 to 85°F (Two Dials)  |  |
| Air Connections                    | Two (Supply and Output)   |  |
| Special Feature                    | Optional Manual Indexing Switch   |  |

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