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Johnson Controls T-4506-203

Johnson Controls T-4506-203 Dual Temperature Thermostat User Manual

Model: T-4506-203

INTRODUCTION

The Johnson Controls T-4506-203 is a high-volume output, dual temperature, dual dial thermostat designed for precise temperature control. This model provides individual day and night, or two set point temperature control, making it suitable for various industrial and commercial applications. It is manufactured by Johnson Controls in the United States.



Image: The Johnson Controls T-4506-203 thermostat, its original packaging box, the instruction manual, and a set point identification

card. This image provides an overview of the product and its accompanying documentation.

KEY FEATURES

- Available in direct acting (DIR) and reverse acting (REV) models.
- Direct acting models are available for vertical or horizontal mounting.
- Reverse acting models are available for horizontal mounting.
- Features two air connections: one for supply and one for output.
- Optional manual indexing switch for enhanced control.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your T-4506-203 thermostat. Ensure all connections are secure and follow local electrical codes.

Mounting

The T-4506-203 model supports horizontal mounting. Ensure the mounting surface is stable and free from vibrations. Refer to the specific model variant for direct or reverse acting mounting requirements.



Image: A view of the underside of the T-4506-203 thermostat, highlighting the air connection ports. These ports are essential for connecting the thermostat to the air supply and output lines.

Air Connections

The thermostat features two air connections: one for supply and one for output. Connect your air supply line to the designated input port and the controlled device to the output port. Ensure all pneumatic connections are airtight to prevent pressure loss and ensure accurate operation.

OPERATING INSTRUCTIONS

The T-4506-203 thermostat allows for precise temperature control with its dual dial system, enabling separate day and night or two-set point temperature management.

Setting Temperature

Use the two dials on the thermostat to set your desired temperatures. One dial typically controls the primary set point (e.g., Day), and the other controls the secondary set point (e.g., Night or a different temperature zone). Rotate the dials clockwise or counter-clockwise to adjust the temperature settings.



Image: A detailed view of the T-4506-203 thermostat, focusing on the two adjustable temperature dials. These dials are used to set the desired temperature points for the controlled environment.

Indexing Switch (Optional)

If your model includes the optional manual indexing switch, refer to the specific instructions provided with your unit for its operation. This switch can provide additional control flexibility.

MAINTENANCE

The Johnson Controls T-4506-203 thermostat is designed for durability and requires minimal maintenance. Regular checks can ensure its longevity and accurate performance.

- **Cleaning:** Periodically wipe the exterior of the thermostat with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Air Connections:** Inspect air connections for any signs of leaks or damage. Ensure they remain securely fastened.
- **Calibration:** The unit is factory calibrated. If you suspect a calibration issue, contact a qualified technician. Do not attempt to recalibrate the unit yourself unless you have the necessary tools and expertise.



Image: A close-up of the "FACTORY CALIBRATED" label on the T-4506-203 thermostat, indicating that the device has been pre-calibrated at the factory for accurate performance.

TROUBLESHOOTING

If you encounter issues with your T-4506-203 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate Temperature Reading	Sensor obstruction, improper calibration, air leak.	Ensure sensor is clear. If factory calibrated, do not attempt to adjust. Check air connections for leaks.
No Response to Dial Adjustment	No air supply, internal mechanical issue.	Verify air supply pressure. If issue persists, contact technical support.
Air Leakage	Loose connections, damaged tubing.	Tighten all pneumatic connections. Inspect tubing for cracks or damage and replace if necessary.

SPECIFICATIONS

The following table outlines the key specifications for the Johnson Controls T-4506-203 Dual Temperature Thermostat:

Specification	Detail
Model Number	T-4506-203
Brand	Johnson Controls

Specification	Detail
Product Dimensions	48 x 48 x 48 inches
Item Weight	6.4 ounces
Controller Type	Mechanical knob
Color	Gray
Temperature Control Type	Cooling, Heating
First Available Date	January 23, 2014

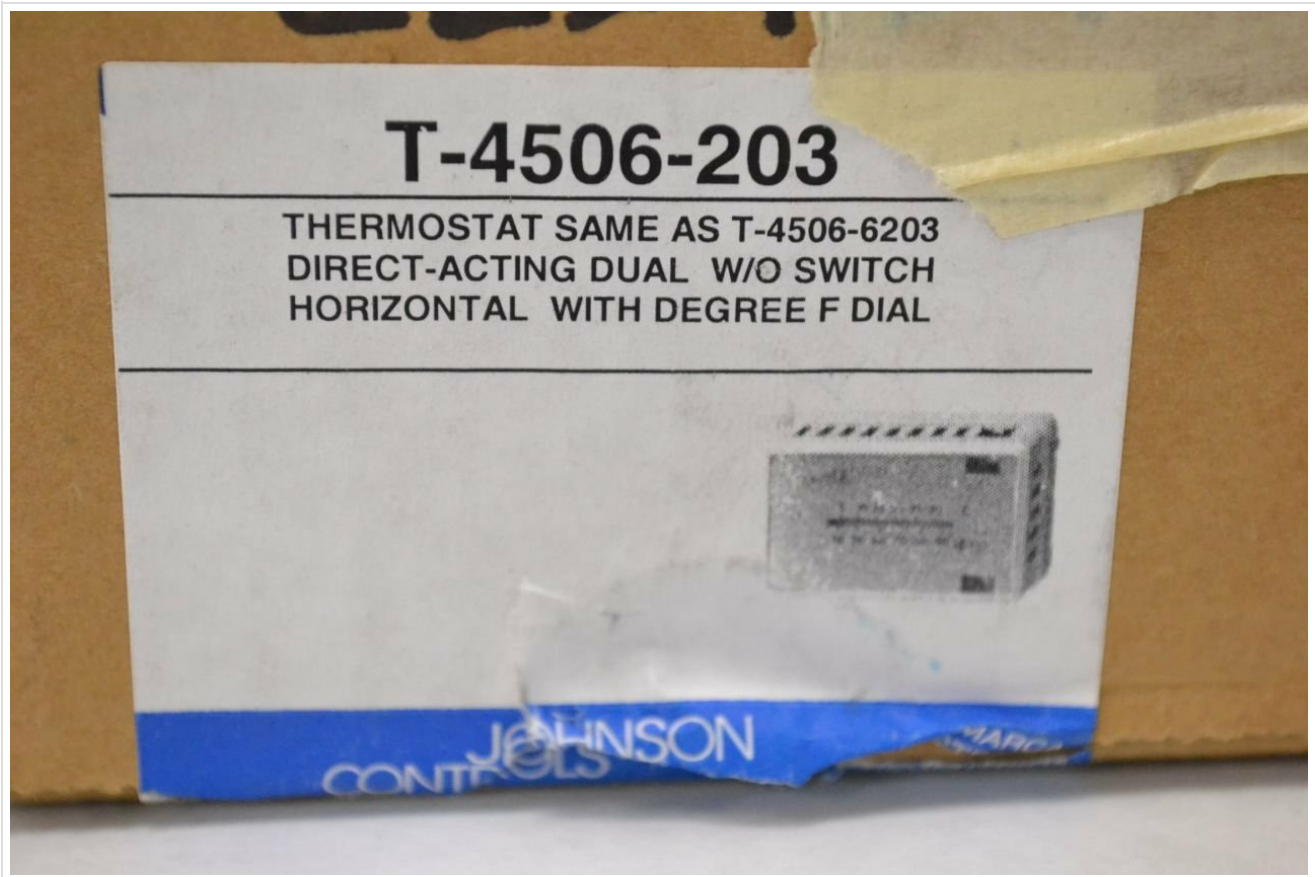


Image: A product label from the packaging of the T-4506-203 thermostat, detailing the model number and a brief description: "THERMOSTAT SAME AS T-4506-6203 DIRECT-ACTING DUAL W/O SWITCH HORIZONTAL WITH DEGREE F DIAL."



Image: A blue label affixed to the side of the thermostat, clearly displaying "Johnson Controls T-4506 DUAL THERMOSTAT," confirming the brand and product type.

WARRANTY AND SUPPORT

Johnson Controls products are built to high standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Johnson Controls website. For technical support or service inquiries, please contact Johnson Controls customer service.

You can also visit the [Johnson Controls Store on Amazon](#) for more product information and resources.