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Dayton 6EDY5

Dayton 6EDY5 Line Voltage Thermostat User Manual

Model: 6EDY5

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Dayton 6EDY5 Line Voltage Thermostat. This device is designed for controlling heating, ventilating, and refrigeration systems, offering a broad temperature range and reliable performance with its snap-acting contacts in a dust-protected enclosure. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: Risk of electrical shock. This thermostat operates on line voltage (120-240V). Improper installation or handling can result in serious injury or death. Always disconnect power at the main service panel before installing or servicing this unit.

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Ensure all wiring connections are secure and properly insulated.
- Do not operate the thermostat with damaged wiring or if the casing is compromised.
- Keep the thermostat away from water or excessive moisture.
- This device is not intended for use in hazardous locations.

3. PRODUCT OVERVIEW

The Dayton 6EDY5 is a mechanical line voltage thermostat featuring a robust design suitable for various industrial and commercial HVAC applications. It utilizes a bimetallic coil sensor for accurate temperature detection and a simple rotary knob for setting the desired temperature.

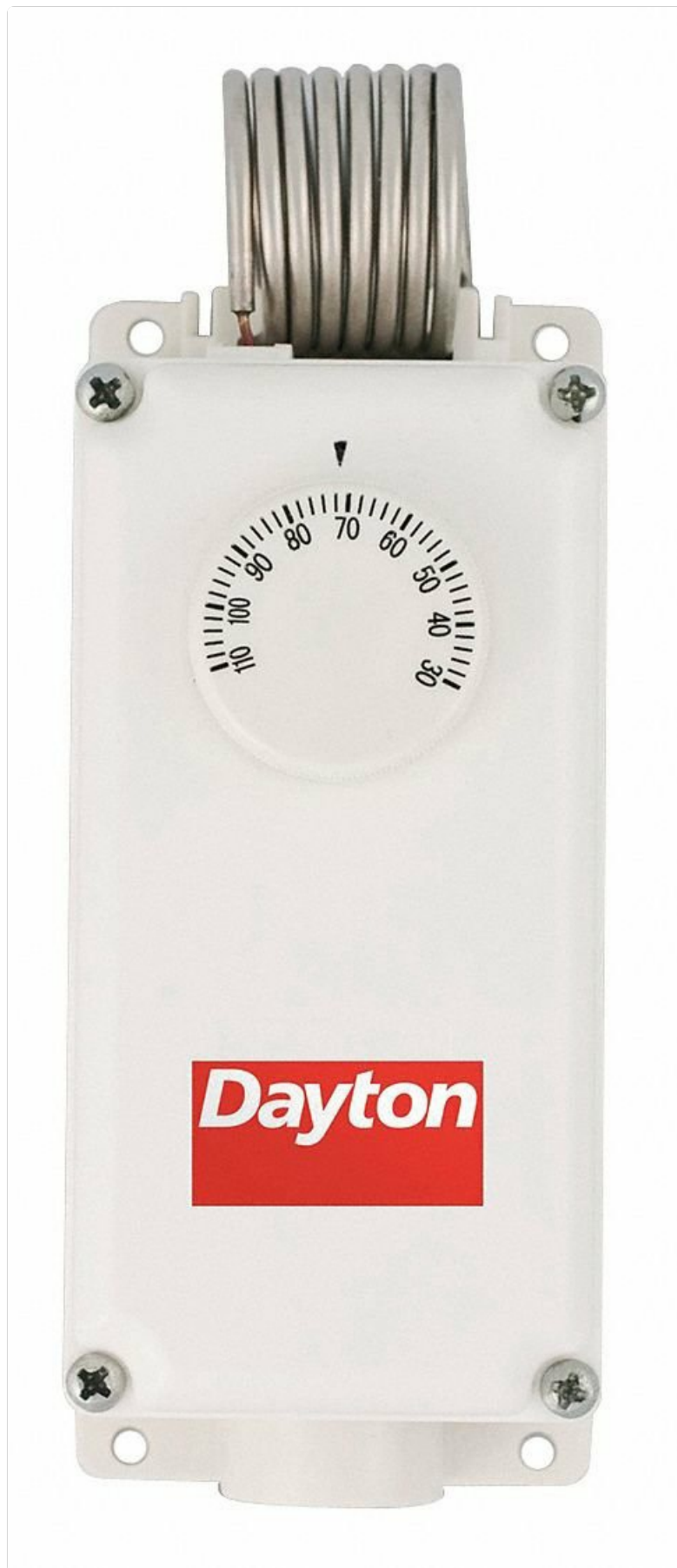


Figure 1: Dayton 6EDY5 Line Voltage Thermostat

This image displays the Dayton 6EDY5 Line Voltage Thermostat. It features a white rectangular housing with a central rotary dial for temperature setting, marked from 30 to 110 degrees Fahrenheit. The Dayton logo is prominently displayed on the lower front. At the top, a coiled metallic sensor is visible, extending from the unit. Four screws secure the front cover, one in each corner.

Key Features:

- **Line Voltage Operation:** Compatible with 120V and 240V systems.

- **SPDT Contacts:** Single Pole Double Throw contacts allow for both heating and cooling applications.
- **Broad Temperature Range:** Suitable for diverse environmental control needs.
- **Dust-Protected Enclosure:** Enhances durability and reliability in various settings.
- **Mechanical Knob Control:** Simple and direct temperature adjustment.

4. INSTALLATION

IMPORTANT: All wiring must conform to local and national electrical codes. Installation should only be performed by a qualified electrician.

4.1 Mounting Location

- Mount the thermostat on a flat, vertical surface, away from direct sunlight, drafts, or heat sources that could affect temperature readings.
- Ensure the location allows for proper air circulation around the sensor coil.
- The thermostat should be mounted at a height of approximately 5 feet (1.5 meters) from the floor for optimal performance.

4.2 Wiring

1. **Disconnect Power:** Before beginning any wiring, ensure that power to the circuit is completely disconnected at the main service panel.
2. **Remove Cover:** Carefully remove the front cover of the thermostat to access the wiring terminals.
3. **Connect Wires:** Connect the line voltage wires to the appropriate terminals as indicated by the wiring diagram provided with the product packaging. The SPDT contacts allow for configuration as either a heating or cooling control. Refer to the specific wiring diagram for your application (heating or cooling).
4. **Secure Wiring:** Ensure all wire connections are tight and secure. Use appropriate wire nuts or connectors.
5. **Replace Cover:** Once wiring is complete and verified, carefully replace the front cover.
6. **Restore Power:** Restore power at the main service panel.

Note: A detailed wiring diagram is typically included with the product packaging. If you do not have this diagram, consult a qualified electrician or contact Dayton customer support.

5. SETUP AND OPERATION

The Dayton 6EDY5 thermostat is designed for straightforward operation using its mechanical temperature adjustment knob.

5.1 Setting the Temperature

- Locate the rotary dial on the front of the thermostat.
- Turn the dial clockwise or counter-clockwise to align the desired temperature setting with the indicator mark.
- The thermostat will activate or deactivate the connected HVAC system to maintain the set temperature.

5.2 Heating vs. Cooling Application

The 6EDY5 thermostat can be configured for either heating or cooling applications by adjusting the internal wiring connections. This configuration is typically done during installation. For heating, the thermostat will

close contacts when the temperature falls below the set point. For cooling, it will close contacts when the temperature rises above the set point. Refer to the installation wiring diagram for specific instructions on configuring for heating or cooling modes.

6. MAINTENANCE

The Dayton 6EDY5 Line Voltage Thermostat requires minimal maintenance to ensure continued reliable operation.

- **Cleaning:** Periodically wipe the exterior of the thermostat with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the internal components.
- **Sensor Area:** Keep the area around the exposed sensor coil free from dust and obstructions to ensure accurate temperature readings.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the thermostat. Do not attempt to disassemble the unit beyond removing the front cover for wiring access.

7. TROUBLESHOOTING

If your Dayton 6EDY5 thermostat is not functioning as expected, review the following common issues before contacting support.

Problem	Possible Cause	Solution
Thermostat not turning system ON/OFF.	No power to the thermostat or HVAC system. Incorrect wiring.	Check circuit breaker/fuse. Verify all wiring connections are secure and correct (consult wiring diagram).
Inaccurate temperature readings.	Thermostat located near heat sources, drafts, or obstructions. Sensor coil is dirty or obstructed.	Relocate thermostat if possible. Ensure sensor area is clean and clear.
System runs continuously or not at all.	Incorrect thermostat setting. Wiring error (e.g., configured for heating when cooling is needed, or vice-versa).	Adjust temperature setting. Verify thermostat is correctly wired for the intended application (heating or cooling).

If troubleshooting steps do not resolve the issue, contact a qualified electrician or Dayton customer support for assistance.

8. SPECIFICATIONS

Feature	Detail
Model Number	6EDY5
Brand	Dayton
Voltage	120-240V
Contact Type	SPDT (Single Pole Double Throw)
Controller Type	Mechanical knob

Feature	Detail
Application	HVAC Systems (Heating, Ventilating, Refrigeration)
Product Dimensions	2.9 x 2.9 x 7.1 inches
Weight	1.05 Pounds
Color	White

9. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official Dayton website. For technical support or inquiries, please contact Dayton customer service through their official channels.