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› White-Rodgers 11D18-1 Well Immersion Single Control User Manual

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Model: 11D18-1

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the White-Rodgers 11D18-1 Well Immersion Single Control. This device is designed to monitor and control temperatures within a 100-240°F range, typically used in HVAC and water heating systems.

Please read this manual thoroughly before attempting to install or operate the control. Keep this manual for future reference.

SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power before installation or servicing. Installation must be performed by a qualified technician in accordance with all local codes and ordinances.

- Always turn off the main power supply to the system before working on the control.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the control if it appears damaged.
- This control is designed for specific applications. Do not use it for purposes other than those specified.

PRODUCT OVERVIEW

The White-Rodgers 11D18-1 is a well immersion single control designed for precise temperature regulation. It features an "Open On Rise" contact action, meaning the electrical contacts open when the temperature rises above the set point. This control is suitable for applications requiring temperature monitoring and switching within its specified range.



Image: White-Rodgers 11D18-1 Well Immersion Single Control. This image shows the compact design of the control unit, typically installed in a well for temperature sensing.

Key Features:

- Well immersion design for accurate temperature sensing.
- Single control with "Open On Rise" contact action.
- Temperature range: 100-240°F.
- Durable construction for reliable performance.

SETUP AND INSTALLATION

Installation of the White-Rodgers 11D18-1 control requires knowledge of electrical systems and HVAC components. It is strongly recommended that installation be performed by a licensed professional.

Installation Steps (General Guidance):

1. **Disconnect Power:** Ensure all power to the system where the control will be installed is completely shut off at the main breaker.
2. **Prepare Mounting Location:** Identify a suitable well or immersion point in the system (e.g., water heater, boiler pipe) where accurate temperature sensing is required.
3. **Mount the Control:** Securely mount the control unit to the well. Ensure a good thermal connection between the control's sensing element and the medium being measured.
4. **Wiring:** Connect the control's terminals to the appropriate system wiring according to the system's wiring diagram and local electrical codes. Pay close attention to the "Open On Rise" contact configuration.
5. **Verify Connections:** Double-check all wiring for correct polarity and secure connections.
6. **Restore Power:** Once installation is complete and verified, restore power to the system.
7. **Test Operation:** Test the control's functionality to ensure it operates as expected within the desired temperature range.

Refer to the specific wiring diagram provided with your system or consult a qualified technician for detailed wiring instructions.

OPERATION

The White-Rodgers 11D18-1 is a single-point control. Its operation is primarily based on its factory-set or adjustable temperature set point and its "Open On Rise" contact action.

Setting the Temperature:

If the control features an adjustable set point, carefully rotate the adjustment dial or screw to the desired temperature within the 100-240°F range. Some models may be fixed-temperature controls and will not have an adjustment.

Contact Action:

- **Below Set Point:** The control's contacts remain closed, allowing current to flow to the connected device (e.g., a pump or burner).
- **At or Above Set Point:** When the sensed temperature reaches or exceeds the set point, the control's contacts open, interrupting the current flow to the connected device.
- **Below Set Point (after opening):** The contacts will re-close when the temperature drops sufficiently below the set point, typically with a differential (hysteresis) to prevent rapid cycling.

Monitor the system's temperature and the behavior of the connected equipment to ensure the control is functioning correctly.

MAINTENANCE

The White-Rodgers 11D18-1 control is designed for reliable, low-maintenance operation. Regular inspection is recommended to ensure continued performance.

- **Annual Inspection:** At least once a year, visually inspect the control and its wiring for any signs of wear, corrosion, or damage.
- **Cleanliness:** Ensure the area around the control and its well is free from dust, debris, or excessive moisture that could affect its operation or lifespan.
- **Thermal Contact:** Verify that the control's sensing element maintains good thermal contact with the medium it is monitoring.
- **Wiring Integrity:** Check that all electrical connections remain tight and secure.

Do not attempt to disassemble or repair the control yourself. If the control is faulty, it should be replaced by a qualified technician.

TROUBLESHOOTING

If you experience issues with your White-Rodgers 11D18-1 control, consider the following common troubleshooting steps. Always disconnect power before performing any checks.

Problem	Possible Cause	Solution
Control not switching at set point	Incorrect set point adjustment Faulty sensing element Poor thermal contact	Verify set point Check for proper immersion/contact Replace control if faulty

Problem	Possible Cause	Solution
Connected equipment not turning on/off	No power to control Loose wiring connections Faulty control contacts	Check power supply Inspect and secure wiring Test control contacts (with power off)
Rapid cycling of connected equipment	Insufficient differential (hysteresis) Sensing element exposed to fluctuating temperatures	Ensure proper immersion Consult a technician for system evaluation

If these steps do not resolve the issue, contact a qualified HVAC technician for further assistance.

SPECIFICATIONS

Feature	Detail
Model Number	11D18-1
Brand	White-Rodgers
Control Type	Well Immersion Single Control
Contact Action	Open On Rise
Temperature Range	100-240°F
Item Weight	1.3 Pounds
Manufacturer	White Rodgers
ASIN	B014XAWFC8

WARRANTY INFORMATION

White-Rodgers products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the 11D18-1 Well Immersion Single Control, please refer to the warranty statement included with your purchase or visit the official White-Rodgers website. Keep your proof of purchase for warranty claims.

SUPPORT AND CONTACT

For technical assistance, replacement parts, or further information regarding your White-Rodgers 11D18-1 control, please contact White-Rodgers customer support or your authorized dealer.

You can typically find contact information on the manufacturer's official website or on the product packaging.

Note: Always provide the model number (11D18-1) when contacting support to ensure accurate assistance.

