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› Navien 30012950A Outdoor Sensor with Wire User Manual

Navien 30012950A

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Model: 30012950A

PRODUCT OVERVIEW

The Navien 30012950A Outdoor Sensor with Wire is designed to accurately measure the ambient outdoor temperature. This data is crucial for optimizing the performance and efficiency of compatible Navien heating systems, particularly for features like freeze protection and intelligent heating control.



Image of the Navien 30012950A Outdoor Sensor with Wire, showing its compact design and attached wiring.

SETUP AND INSTALLATION

Proper installation of the outdoor sensor is essential for accurate temperature readings and optimal system performance. Consult your heating system's main manual for specific wiring diagrams and connection points.

Placement Guidelines:

- Mount the sensor on an exterior wall that is not exposed to direct sunlight, heat sources, or exhaust vents.
- Ensure the sensor is positioned away from windows or doors that could influence temperature readings.
- Mount the sensor at least 5 feet (1.5 meters) above ground level to avoid ground-level temperature anomalies.
- Avoid locations where snow or ice accumulation could cover the sensor.

Wiring Instructions:

1. Turn off all power to the heating system before beginning any wiring.
2. Route the sensor wire from the chosen outdoor location to the heating system's control board. Use appropriate wiring methods to protect the wire from damage and moisture.

- 3. Connect the two wires from the outdoor sensor to the designated outdoor sensor terminals on the heating system's control board. Refer to your heating system's manual for the exact terminal locations. Polarity is typically not critical for this type of sensor, but always verify with the main system manual.
- 4. Secure all connections and ensure the wiring is neat and free from strain.
- 5. Once wiring is complete, restore power to the heating system.

OPERATING PRINCIPLES

The Navien 30012950A Outdoor Sensor operates passively by continuously measuring the ambient air temperature. It transmits this temperature data to the connected Navien heating system. The heating system then uses this information to:

- **Optimize Heating Performance:** Adjusting the heating curve or output based on outdoor conditions to maintain comfortable indoor temperatures efficiently.
- **Provide Freeze Protection:** Activating system components (e.g., circulation pumps) to prevent freezing in pipes during extremely cold weather.
- **Display Outdoor Temperature:** Allowing users to view the current outdoor temperature on the system's control panel.

The sensor requires no direct user interaction once installed and configured with the heating system. Its operation is fully automatic.

MAINTENANCE

The Navien 30012950A Outdoor Sensor is designed for minimal maintenance. Regular checks can help ensure its continued accuracy and longevity.

- **Annual Inspection:** Periodically inspect the sensor for any physical damage, such as cracks or loose wiring.
- **Cleaning:** Gently clean the sensor housing with a soft, damp cloth if it becomes dirty or covered in debris. Avoid using abrasive cleaners or solvents.
- **Clearance:** Ensure that the area around the sensor remains clear of obstructions like overgrown vegetation, snow, or ice that could affect readings.
- **Wiring Check:** Verify that the wiring connections remain secure and free from corrosion.

TROUBLESHOOTING

If you suspect an issue with your outdoor sensor, perform the following basic troubleshooting steps:

Symptom	Possible Cause	Solution
Incorrect outdoor temperature reading on system display.	Sensor exposed to direct sunlight, heat source, or obstruction.	Verify sensor placement according to installation guidelines. Relocate if necessary.
No outdoor temperature displayed or error code related to sensor.	Loose or disconnected wiring; damaged sensor or wire.	Turn off power, check all wiring connections at the sensor and the heating system control board. Inspect the sensor and wire for visible damage. Replace if damaged.
System not responding to outdoor temperature changes.	Sensor not properly configured in heating system settings; faulty sensor.	Consult your heating system's manual to ensure the outdoor sensor function is enabled and configured correctly. If issues persist, the sensor may need replacement.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician or Navien customer support for further assistance.

SPECIFICATIONS

- **Manufacturer:** NAVIEN
- **Part Number:** 30012950A
- **Item Weight:** 2.32 ounces
- **Product Dimensions:** 3 x 2 x 1 inches
- **Material:** Other
- **ASIN:** B00MFWLCKI
- **Date First Available:** July 24, 2018

WARRANTY INFORMATION

Specific warranty details for the Navien 30012950A Outdoor Sensor are typically provided with the product packaging or can be found on the official Navien website. Please refer to the documentation included with your purchase or visit www.navieninc.com for the most current warranty policy.

SUPPORT

For technical support, replacement parts, or further inquiries regarding the Navien 30012950A Outdoor Sensor, please contact Navien customer service or visit their official website:

Navien Official Website: www.navieninc.com

Refer to the website for contact numbers and support resources specific to your region.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question