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> [Danfoss 088L5130 LX Programmable Thermostat with Floor Sensor User Manual](#)

XL 088L5130

Danfoss LX 088L5130 Programmable Thermostat User Manual

Model: 088L5130 | Brand: XL

1. INTRODUCTION

The Danfoss LX 088L5130 Electric Floor Heating Thermostat is designed to provide optimal comfort and energy efficiency for your electric floor heating system. This advanced electronic thermostat features a large, backlit display for easy programming and monitoring. It includes an integral Class A GFCI for enhanced safety and is dual voltage rated (120V/240V), making it versatile for various installations. With its four-event, seven-day programming capability, you can customize your heating schedule to suit your lifestyle and monitor energy consumption effectively.



The Danfoss LX 088L5130 thermostat features a large backlit display for clear temperature readings and programming. It includes an integral Class A GFCI for enhanced safety and is designed for wall mounting.

2. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installing or operating this thermostat. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Electrical Hazard:** Installation must be performed by a qualified electrician in accordance with local electrical codes. Disconnect power at the circuit breaker before installation or servicing.
- **Ground Fault Circuit Interrupter (GFCI):** This thermostat includes an integral Class A GFCI. Test the GFCI monthly to ensure proper operation. Refer to the GFCI testing procedure in the operating instructions.
- **Voltage Compatibility:** Ensure the thermostat's voltage rating (120V/240V) matches your electrical supply.
- **Indoor Use Only:** This thermostat is designed for indoor use in dry locations only.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Danfoss LX 088L5130 Programmable Thermostat
- Floor Sensor
- Installation Screws
- User Manual (this document)

4. INSTALLATION

The Danfoss LX 088L5130 thermostat is designed for wall mounting. Professional installation is recommended to ensure proper wiring and adherence to all electrical codes.

4.1. Wiring

1. Turn off power to the heating circuit at the main electrical panel.
2. Connect the line voltage wires (L1 and L2 for 240V, or L1 and Neutral for 120V) to the appropriate terminals on the thermostat.
3. Connect the heating cable wires to the load terminals.
4. Connect the ground wire to the ground terminal.
5. Route the floor sensor cable to the floor heating area and connect it to the sensor terminals on the thermostat. Ensure the sensor is properly placed within the heated floor area according to the floor heating system's instructions.

4.2. Mounting

1. Secure the thermostat base to the wall electrical box using the provided screws.
2. Carefully push the wired thermostat unit into the base, ensuring all wires are tucked neatly and not pinched.
3. Snap the front cover onto the thermostat base.

5. INITIAL SETUP

After successful installation and power-up, the thermostat will display initial settings. Follow these steps for basic configuration:

1. **Power On:** Restore power to the heating circuit at the main electrical panel. The thermostat display should illuminate.
2. **Time and Date Setting:** Use the navigation buttons (Up/Down) to set the current time and day of the week. Confirm each setting by pressing the 'PROG' button.

3. **Temperature Unit:** Select your preferred temperature unit (Fahrenheit or Celsius) if prompted, or access this setting through the menu.
4. **Operating Mode:** Choose the desired operating mode (e.g., Floor Sensor, Room Sensor, or combined). The LX 088L5130 is primarily designed for use with its included floor sensor.

6. OPERATING INSTRUCTIONS

6.1. Adjusting Temperature

In normal operating mode, use the Up (▲) and Down (▼) buttons to manually adjust the desired setpoint temperature. The new setpoint will be active until the next programmed event.

6.2. Programming Schedule (4-Event, 7-Day)

The thermostat allows for personalized heating schedules with up to four events per day for each day of the week.

1. Press the 'PROG' button to enter programming mode.
2. Use the Up/Down buttons to select the day of the week you wish to program. Press 'PROG' to confirm.
3. For each event (e.g., Wake, Leave, Return, Sleep), set the desired time and temperature using the Up/Down buttons. Press 'PROG' to confirm each setting.
4. Repeat for all four events and all seven days as needed.
5. Exit programming mode by pressing the 'PROG' button until the main screen reappears, or it will automatically exit after a period of inactivity.

6.3. Energy Consumption Monitoring

The thermostat can monitor and display energy consumption. Refer to the on-screen menu or specific button combinations in the full manual for accessing this feature.

6.4. GFCI Testing

To ensure the safety feature is working correctly, test the GFCI monthly:

1. Press the 'TEST' button on the thermostat. The GFCI should trip, and the display may show an error message or turn off.
2. Press the 'RESET' button to restore power. If the GFCI does not trip or reset, contact a qualified electrician.

7. MAINTENANCE

The Danfoss LX 088L5130 thermostat requires minimal maintenance.

- **Cleaning:** Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the display or casing.
- **Avoid Obstructions:** Ensure the thermostat's vents (if any) are not blocked by furniture or curtains, as this can affect temperature readings.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank	No power to the thermostat.	Check circuit breaker. Ensure proper wiring connections.

Problem	Possible Cause	Solution
Heating not turning on/off	Incorrect programming; GFCI tripped; Wiring issue.	Verify schedule settings. Reset GFCI. Consult electrician for wiring.
Temperature reading inaccurate	Sensor issue; Thermostat location.	Ensure floor sensor is correctly installed. Avoid placing thermostat near drafts or heat sources.
Display is too bright	This model does not have dimming functionality for the backlight.	This is a characteristic of the product. No adjustment is possible.

9. SPECIFICATIONS

Feature	Detail
Brand	XL
Model Name	LX
Product Dimensions	1"D x 3"W x 4.8"H
Controller Type	Push Button
Special Feature	Programmable
Color	White
Temperature Control Type	Programmable
Connectivity Technology	Wired
Included Components	Floor sensor
Power Source	Electric
Voltage	240 Volts
Wattage	1800 Watts (120V) / 3600 Watts (240V)
Display Type	Digital
Control Method	Touch / Button Control
Mounting Type	Wall Mount
Backlight	Yes
Item Weight	12.3 ounces

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Danfoss website. Keep your proof of purchase for any warranty claims.

For further assistance, contact Danfoss customer service or your authorized dealer.

