



Nordkapp®

User manual

ThermoLink

Wireless Smart Remote with Integrated Thermostat



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www.nord-kapp.com/pages/documents

Safety Information

Read this manual carefully before using the device to ensure safe and correct operation.

- The device monitors carbon monoxide (CO) concentration and will activate an audible alarm when CO levels reach the alarm threshold.
- If the controller is correctly paired with the heater switch, it can automatically shut down the heater when CO levels exceed the defined limit.
- In the event of a CO alarm, ventilate the area immediately by opening doors or windows. Leave the environment if necessary and identify the possible source of CO before continuing heater use.
- Always ensure sufficient ventilation when operating a diesel heater in enclosed or semi-enclosed spaces.
- Technical safety features cannot replace responsible use. Always stay aware of your surroundings when using a heater.
- **This device provides an additional safety layer but does not replace proper CO protection.**
- **For full safety, we strongly recommend installing a certified, dedicated carbon monoxide alarm in the space where the heater is used.**
- Only use the device as described in this manual. Incorrect use may lead to malfunction or pose a safety risk.

Product Description & Main Features

ThermoLink Smart Thermostat is the control unit designed for **Nordkapp Wi-Fi and Bluetooth heater switches**. It enables heater ON/OFF operation, and displays real-time operating information on its LCD screen, including operating status, ambient temperature, CO concentration and device settings.

It features four control buttons (Power, Setting, Increase and Decrease) and wireless Bluetooth connection for heater control and real-time status updates.

Operating Modes

- LEL – Gear mode
- tEP – Temperature control mode
- RUE – Constant temperature automatic start/stop mode
- SUP – Strong heat mode
- FRN – Ventilation mode

CO Functions

- Real-time CO concentration monitoring
- Audible CO alarm (default 50 PPM)
- Automatic heater shutdown when paired (default 100 PPM)
- CO calibration function

Temperature Functions

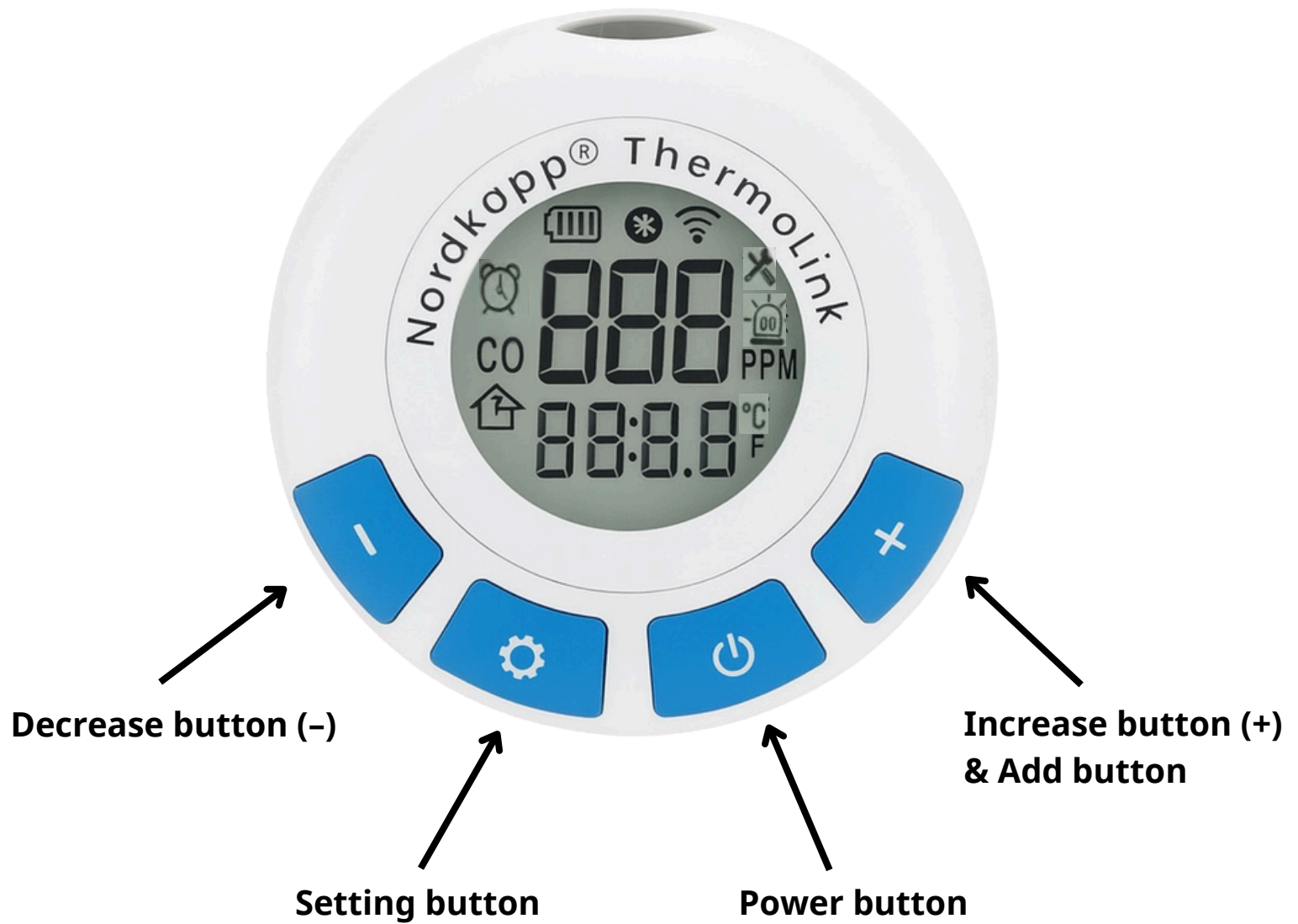
- Ambient temperature detection
- Adjustable temperature compensation
- Selectable temperature unit (°C / °F)

Additional Functions

- Backlight control with adjustable timer
- Current time display and adjustment
- Firmware upgrade mode
- Automatic power-off if pairing fails after timeout

Note ! ThermoLink is not a certified CO alarm and must not be used as a substitute for an approved safety device.

Device Overview



Device Overview

Buttons

Power button

Turns the heater ON/OFF through the paired heater switch and powers the controller on or off.

Setting button

Selects operating modes and opens the settings menu (F00–F08) when held for three seconds.

Increase button (+)

Raises temperature or other values.
Turns on the backlight when held.

Decrease button (–)

Lowers temperature or other values. When held, shows the CO level and then the current time.

Operating Mode Indicators

LEL – Gear mode

tEP – Temperature control mode

AUt – Constant temperature mode (Auto)

SUP – Strong heat mode

FAN – Ventilation mode

Display Indicators

Bluetooth icon

Flashes while searching for the heater switch and stays solid when connected.

CO indicator and PPM

Shows the current carbon monoxide level in parts per million.

Temperature display

Shows the ambient temperature measured by the controller or by the heater switch.

°C / °F symbol

Indicates the temperature unit that is currently selected.

OFF indicator

Appears on the display when the heater is switched off.

Timer/adjustment icons

Shown when adjusting the backlight timer, time or compensation settings.

Getting started

Pairing the ThermoLink With the Heater Switch for First Time

Pairing First Time



- When ThermoLink is powered off.
- Press and hold the **Add button (+)** for 8–10 seconds.
- The Bluetooth icon starts flashing, meaning the controller is ready to pair.
- Turn on the Pairing mode of the **heater switch**.
- Succeeds pairing the Bluetooth icon becomes solid and the display show status of the heater switch.
- If pairing fails, the ThermoLink will turn off automatically.

Controlling the Heater Switch – After Successful Pairing

- Once paired, press the **Power button** to turn on the heater.
- When the heater turns on successfully, the ThermoLink will show the current temperature control mode and automatically set the target temperature to 31°C.
- If the connection fails, an **Error** will appear and the device will power off after 300 seconds.

Important Note

Pairing Timeout

The ThermoLink will search for the heater switch for 10 seconds.

If no connection is made within 300 seconds, it will turn off automatically and must be restarted before retrying.

When connected to the heater switch, the ThermoLink automatically use the heater switch temperature sensor. If needed, the temperature source can be changed manually in Settings.

Basic operation

Turning ON

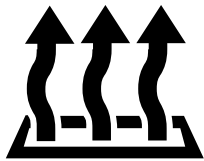
After pairing, press the **Power** button to turn on the heater switch.
The display will show the heater switch status.

Turning OFF

Press the **Power** button while the heater is running. "OFF" appears and the heater switch begins shutdown. The controller display turns off automatically after 60s when the heater switch has powered down.

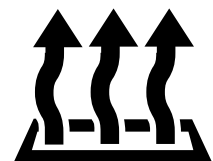
Normal Start-Up – When ThermoLink and heater switch already paired before

- Press and hold the **Power button** for 2 seconds to turn on the ThermoLink.
- After powering on, the Bluetooth icon will flash while it searches for the heater switch and connects.
- If the connection succeeds, the ThermoLink immediately shows the heater switch status.
- If the Bluetooth icon does not flash, the heater switch is not matched and must be paired again.
- If no connection is made within 300 seconds, the ThermoLink will shut down automatically.



Switching Heating Modes

Press the **Setting button** to switch between heating modes.



Heating Mode Descriptions

LEU – Gear mode: Manual heating; + / – adjusts gear level.

tEP – Temperature control mode: Keeps the set temperature; + / – adjusts it.

AUt – Constant temperature mode: Automatic start/stop to keep set temperature; + / – adjusts it.

SUP – Strong heat mode: Maximum heating power; gear cannot be adjusted.

FRN – Ventilation mode: Fan-only operation; + / – adjusts fan gear.

Settings

Accessing the Settings Menu

Press and hold the Setting button for three seconds to enter the settings.

Use the + and – buttons to browse through the options.

Press **Setting again to confirm** a selection or move to the next item.

Settings Menu (F00–F08)

F00 – Set Clock

Sets the controller's internal time (hours and minutes).

F01 – Temperature Compensation

Correct the displayed temperature if it reads too high or too low.

F02 – Temperature Unit

Selects °C or °F.

F03 – CO Alarm Settings

Set the CO level where the alarm will sound. (default 50 PPM)

F04 – CO Shutdown Level

Set the CO level that automatically turns the heater off. (default 100 PPM)

F05 – Backlight Timer

Sets how long the display backlight stays on after a button press. Note 0s mean the backlight stays off.

F06 – Temperature Source Selection

This setting selects whether the ThermoLink sensor or the heater switch sensor is used for temperature measurement.

- Ctrl – Thermolink sensor
- SLtH – Heater switch sensor (default)

F07 – CO Calibration

Calibrates the CO sensor.
Must be done in clean, fresh air.

F08 – Product firmware version number

Display functions

Display Backlight

Backlight Control

Hold the (+) button to turn on the display backlight.

The backlight will automatically turn off after the time set in F01 – Backlight Timer.

Automatic Backlight Timeout

Default timeout is typically 30 seconds.

The display backlight stays on only while using the buttons or when manually activated.

Note

The display backlight does not affect heating performance.

The display backlight timeout can be changed in the Settings Menu (F01).

Viewing Information (CO & Time)

Viewing CO Level

Hold the (-) button to view the current CO concentration (PPM).

The display will show the CO value and the measured temperature.

Viewing the Current Time

While viewing CO, press the (-) button again to display the current time.

Auto Exit

The display will return to the main screen automatically after 10 seconds with no button input.

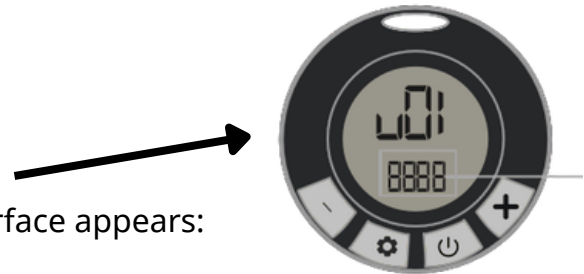
Manual Firmware Update

The ThermoLink controller supports manual firmware updates. This mode is used only when updating the device software, and it is normally not needed during regular use.



Entering Firmware Update Mode

- Make sure the ThermoLink controller is powered off.
- Press and hold the (+) and (-) buttons together until this interface appears:
- The display will show the device's Bluetooth ID, and the controller will enter firmware update mode.



Bluetooth ID Display

When firmware update mode is activated, the ThermoLink automatically shows its Bluetooth ID. This ID is used to identify the device during the update process.

Note !

Firmware update requires the use of the firmware update application!

⚠ Safety Behaviors ⚠

Important Safety Note

This device provides CO monitoring, but it does not replace a certified CO detector. For maximum safety, we recommend installing a dedicated CO alarm in addition to the ThermoLink.

CO Level Alert (Not a Certified Alarm)

If CO reaches the alarm level (default 50 PPM), the controller will sound an alarm and flash the CO icon to warn that the air quality is unsafe.

Note: Thermo Link provides indicative CO information only and is not a certified CO alarm!

CO Level Display

The ThermoLink continuously measures carbon monoxide (CO) and shows the current PPM value on the display.

Automatic Heater Shutdown

If CO reaches the shutdown level (default 100 PPM), the ThermoLink will automatically turn off the heater through the paired heater switch. The display will show the CO warning during this condition.

CO Sensor Calibration

Calibrate the CO sensor only in clean, fresh air. Calibration is done through F06 – CO in the Settings Menu. Incorrect calibration may cause false alarms or prevent proper detection.

Manufacturer



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