Roth Touchline
User manual – quick and easy guide
A Roth Touchline underfloor heating system consists of
1 - 5 control devices and a number of room thermostats.
The control device can operate functions such as pump stop/start,
boiler enable signal and cooling. The thermostats are available
with and without floor sensors (IR). The Roth Touchline system is
easy to use and can be controlled with an Android or iOS app. The
most commonly used settings are listed below.

If you need the complete user manual, this is available to down-
load at www.roth-uk.com

Contents:
› Quick start (fitter)
› User settings (user)
› Extended settings (fitter)

1. Summary: control device
1. Transformer 230/24V AC
2. Wireless control device
3. The LED shines when heat is needed and flashes during pairing.
4. Use pushbuttons for pairing.
5. Terminals/outputs
6. Stress relief
7. SD card reader for software updates
8. External antenna input
9. LAN input (where applicable)

2a. Summary: thermostat
1. Wireless connection symbol
2. Temperature setpoint and actual value, time, time program and
floor temperature
3. Time, date and other value changes
4. New multi function tab
5. Menu button, mode and parameter selection
6. Back
7. OK
8. Opening: to open the wireless room thermostat, use a 5 mm
Phillips screwdriver
9. IR sensor (IR model only)

2b. Summary: display
10. Battery alarm, eco-indicator, dew point, general alarm, lock
11. Days of the week for time programs
12. Room/floor temperature
13. Help text for configuration
14. Modes and setting
3. Install the control device and connect the actuators (24V).

5. Insert the batteries in the thermostats and mount the thermostats on the wall.
   A: Applicable to all thermostats.
   B: Applicable to IR thermostats only.
6. Pairing a Touchline room thermostat with the control device

6.A: Briefly press the preferred channel or several channels that you want to pair with the Touchline room thermostat. The channel now flashes continuously and is ready for pairing.

The Touchline room thermostat is now ready for pairing and displays: 🔄

6.B: To pair the Touchline room thermostat, hold the sensor button 🔄 for approx. 5 seconds until the room thermostat shows (PAIR). When you see this, release the sensor buttons.

7. Setting the time and date

Setting the time and date is necessary so that the system works correctly.

The system automatically asks you to set the time and date when you pair the first wireless room thermostat with a wireless control device. If you skip this procedure, it will be repeated the next time you pair a wireless room thermostat.

When connecting the Touchline controllers to your LAN internet connection, the time and date in the thermostats will auto adjust.

› The hour value flashes
› Press the sensor button ⬆️ or ⬇️ to set the actual timer value
› Press the sensor button 🔄 to confirm. The hour value flashes.
› Set minutes, year, month and day as described for the timer
› When the time and date has been set, press the sensor button 🔄. The display shows active display

8. Setting the comfort temperature

The thermostat goes to sleep after 10 seconds without being touched. Press and hold down any key for 5 seconds to wake it up.

Setting the room temperature
› Press ⬆️ or ⬇️ to change the setpoint, i.e. the preferred room temperature.

› Press ✅ to confirm the new setpoint. The new setpoint is saved automatically after 5 seconds if you do not confirm it.

Accessing the Parameter menu:
1. Wake up the thermostat.
2. Hold down 🔄 for 10 seconds.
3. Then press 🔄 until you see the required P number.
4. Select the preferred menu by pressing ✅.
Touchline

Setting the minimum floor temperature
Floor temperature setting is only available on the type of room thermostat with a floor temperature sensor (IR).
The factory setting is 15°C. Setting range 15 - 30°C.

› Hold down for 5 seconds to access the user menu. The display shows P-01.

› Press until the display shows P-02.

› Press the display shows the floor temperature setpoint and the symbol .

› Press or to change the setpoint.

› Press to confirm the new setpoint. The display shows P-03.

› Press to leave the user menu

9. Carrying out a link test
Pairing test (link test)
The pairing test allows you to view channel placement.

› Hold down and on the wireless room thermostat simultaneously for 5 seconds

› The display on the wireless room thermostat shows “Pair” – “Test” and the CH LED(s), and the LED for the allocated channel shines on the control device. If the wireless room thermostat has been paired with more than one channel, the LEDs for all paired channels shine.

› The LED/LEDs goes/go off after 5 seconds. Pairing has been tested.

NOTE: If the display shows the symbol ERR 1, the radio connection between the wireless room thermostat and the wireless control device has been lost.
10. Mode selection

Press the sensor button briefly. The symbol flashes.

› Press the sensor button briefly to switch to the next mode symbol. The symbol for the next mode flashes.

› Press the sensor button repeatedly until the symbol for the preferred mode flashes.

› Press the sensor button to confirm the new mode.

The Touchline system has an option for night setback with a time program. View the complete guide at www.roth-uk.com

Always check the mode before calling a technician!

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>☀️</td>
<td>The room temperature is kept frost-free at 8°C</td>
</tr>
<tr>
<td>☀️</td>
<td>Reduced temperature -3°C</td>
</tr>
<tr>
<td>☀️</td>
<td>Comfort temperature (this is the recommended operating temperature)</td>
</tr>
<tr>
<td>☀️</td>
<td>Time programs I, II “Pro 2” and III “Pro 3”</td>
</tr>
<tr>
<td>☀️</td>
<td>Cooling mode (can only be selected if the wireless room thermostat takes priority over the heating/cooling device)</td>
</tr>
<tr>
<td>☀️</td>
<td>Heating mode (can only be selected if the wireless room thermostat takes priority over the heating/cooling device)</td>
</tr>
<tr>
<td>⏰</td>
<td>Auto cooling mode (cannot be altered by a wireless room thermostat as this mode is determined by the cooling device via a C/O input)</td>
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</table>

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>How to clear it</th>
<th>To be done by</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>Battery almost exhausted</td>
<td>Replace the batteries</td>
<td>User</td>
</tr>
<tr>
<td>🔄 🎁</td>
<td>Battery critically low. Radio connection between wireless room thermostat and wireless control device is no longer guaranteed</td>
<td>Replace batteries immediately</td>
<td>User</td>
</tr>
<tr>
<td>🔴</td>
<td>No radio signal between wireless room thermostat in sensor mode and wireless control device for more than 30 minutes</td>
<td>Power failure to wireless control device</td>
<td>Restore power supply</td>
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<tr>
<td></td>
<td></td>
<td>Defective fuse</td>
<td>Replace fuse (2 A T)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Check electrical connections</td>
</tr>
<tr>
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<td>Replace fuse</td>
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<td></td>
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<td>Check electrical connections</td>
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<td>Electrical interference</td>
<td>Troubleshooting</td>
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<td>Possible cause</td>
<td>How to clear it</td>
<td>To be done by</td>
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<tr>
<td><strong>Err3</strong> Parameters changed</td>
<td>Power failure to wireless control device</td>
<td>Restore power supply</td>
<td>Electrician</td>
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<tr>
<td>cannot be saved</td>
<td>Defective fuse</td>
<td>Replace fuse</td>
<td>Electrician</td>
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<td></td>
<td></td>
<td>Check electrical connections</td>
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<tr>
<td>Power failure to wireless</td>
<td>Insufficient battery power</td>
<td>Replace the batteries</td>
<td>User</td>
</tr>
<tr>
<td>control device</td>
<td>IR sensor broken</td>
<td>Replace wireless room thermostats</td>
<td>Specialist</td>
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<tr>
<td></td>
<td></td>
<td>with IR sensors</td>
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<tr>
<td>Roth App lost connection</td>
<td>Inability to connect to control device via app.</td>
<td>Restart control device</td>
<td>User</td>
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<td></td>
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<td><strong>Always make sure you have the</strong></td>
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<td><strong>latest software update.</strong></td>
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<td><strong>See <a href="http://www.roth-uk.com">www.roth-uk.com</a></strong></td>
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<td><strong>for more information.</strong></td>
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<tr>
<th>Parameter</th>
<th>Description</th>
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</table>
| P-24      | Reset parameter to factory setting. The parameters are saved in the wireless control device and also in the wireless room thermostat. Which parameters can be reset under which conditions are defined in section 15.3. **NOTE** If there is no pairing of a wireless room thermostat to a wireless control device, parameters must be reset to factory settings in two steps. First, select options “1” and then options “3” for parameter P-24. **Options**  
  › 0: Inactive, no reset will be executed.  
  › 1: Reset wireless control device to factory setting. The pairing of the wireless room thermostats to the wireless control device will not be deleted.  
  › 2: Reset wireless control device to factory setting. The pairing of the wireless room thermostats, wireless control device and accessories will be deleted.  
  › 3: Reset wireless room thermostat to factory setting. The pairing of the wireless room thermostat or temperature sensor (sensor mode) will not be deleted.  
  › 4: Reset wireless room thermostat to factory setting. The pairing of the wireless room thermostat or temperature sensor (sensor mode) will be deleted. **Operation**  
  › Press the sensor button \[\] The display shows 0.  
  › Press the sensor button \[\] or \[\] to select an option.  
  › Press the sensor button \[\] The display shows no.  
  › Press the sensor button \[\] or \[\] to toggle between no and yes.  
  › Select one of the following options:  
    – Press the sensor button \[\] to save the changed setting. The display shows the next parameter P-21.  
    – Press the sensor button \[\] to cancel the procedure. The display shows the selected parameter. |
### Parameter Description

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| **P-32** | Set temperature for frost protection function. The frost protection function will be activated as soon the room temperature measured is below the set frost protection temperature.  
  › Factory setting: 8°C  
  › Setting range: 3 – 13°C  
  **Operation**  
  › Press the sensor button to The display shows 8.0.  
  › Press the sensor button or to change the value.  
  › Select one of the following options:  
    - Press the sensor button to save the changed setting. The display shows the next parameter P-33.  
    - Press the sensor button to cancel the procedure. The display shows the selected parameter. |
| **P-51** | Set priorities for change-over of heating/cooling and configure output for heating/cooling or burner start.  
  **ATTENTION**  
  If communication between wireless connection modules has been selected, then the settings of P-51 must be the same at all wireless connection modules with a wireless room thermostat. Otherwise the plant will not function properly.  
  If option “0” or “1” has been selected, then the heating/cooling unit performs the master function and determines the heating/cooling mode. The mode of operation for heating/cooling can not be set by any wireless room thermostat nor be influenced by the wireless connection module.  
  If option “2” has been selected, then the mode of operation for heating/cooling is determined by any wireless room thermostat. The heating/cooling unit has no influence on the mode of operation for heating/cooling.  
  In addition it is possible to set one wireless room thermostat as master for heating/cooling.  
  › See parameter description P-48, page 81.  
  › Factory settings: Option “0”  
  › Options:  
    - 0: C/O-Input and C/O-Output of the wireless connection module have priority.  
    - 1: Burner start and C/O-Input of the wireless connection module have priority.  
    The C/O-Output is configured as burner start and switches off immediately when heating demand is not required. In cooling mode this output is inactive.  
    - 2: The change-over between heating and cooling can only be done with the wireless room thermostat. In cooling mode the C/O-Output of the wireless connection module is active.  
  **Operation**  
  – Press sensor button . The display shows 0 .  
  – Press sensor button or to select option 0, 1 or 2.  
  – Select one of the following options:  
    - Press sensor button to save the changed settings. The display shows the next parameter P-52.  
    - Press sensor button to interrupt the procedure. The display shows the selected parameter. |
| **P-66** | Activate or deactivate “optimised thermomotor control” function.  
  The optimised thermomotor control is a specially developed control that saves energy.  
  This control also replaces semi-proportional control.  
  Initially, the thermomotor will receive a 100% signal for a certain amount of time. After this warmup period, the thermomotor receives pulse/pause signals dependent on the ambient temperature, configured using the options in this parameter (P-66). This control helps to reduce energy consumption considerably.  
  **NOTE**  
  We recommend deactivating optimised thermomotor control at ambient temperatures below 10°C.  
  › Factory setting: Option “0”  
  › Options:  
    - 0: Deactivated, ambient temperature below 10°C  
    - 1: Activated, ambient temperature between approx. 10°C and 25°C  
    - 2: Activated, ambient temperature between approx. 25°C and 50°C  
  **Procedure**  
  › Press the sensor button . The display shows 0.  
  › Press the sensor button or to set option 0, 1 or 2.  
  › Select one of the following options:  
    - Press the sensor button to save the changed setting. The display shows the next parameter P-67.  
    - Press the sensor button to cancel the procedure. The display shows the selected parameter. |