Technical service bulletin
Logamatic R2107 Quick Start Guide

Buderus
Bosch Group

Introduction

This bulletin is intended to address basic applications for the Logamatic R2107. For more advanced applications and functionality, please refer to the Logamatic R2107 Operating Instructions, Installation and Service Instructions and Applications Manual.

Procedure - Level 1 - Basic Settings

- **To set day:**

  Hold [1...7] and turn dial until proper day is selected.

- **To set time:**

  Hold [clock] and turn dial clockwise until proper time is selected.

- **To set Warm Weather Shutdown (WWSD) temp:**

  Hold and turn dial to appropriate temperature.

- **For 24 hour Domestic Hot Water:**

  Hold and turn dial until "DHW PROD" appears. Release and then press [sun]. Then re-hold and turn the dial back to "CIRCUIT 1".

- **When using hydro-air systems, you must also change day/night temp.**

- **To change day temp:**

  Hold [thermometer] and turn dial clockwise to 86° F.

- **To change night temp:**

  Push [moon] then hold [thermometer] and turn dial clockwise to 84° F.

Procedure - Level 2 - Programming Settings

Hold together [1...7], [clock], [ ], then release.

Turn dial five clicks clockwise. This brings you to "BLR TEMP".

Then push [ ] and turn the dial appropriately to reach the settings below:

FREEZE TEMP - 41°F (default)
BUILDING RESP - Change from default (2) to (1) for wood frame construction
PUMP LOGIC - 104° F (default)
MAX TEMP - Must change to 194°F

- **To change BUILDING RESP:**

  While on the BUILDING RESP setting, hold [ ] and turn dial counter-clockwise.

- **To change MAX TEMP:**

  While on the MAX TEMP setting, hold [ ] and turn dial clockwise to 194° F.

Push [ ] then turn dial clockwise once to "CIRCUIT 1".

Then push [ ] and turn the dial appropriately to reach the following settings on the next page:

REF TEMP – Will change according to system design. Program to the following:

1. Baseboard – 160 °F
2. Hydro-Air – 128 °F
3. Panel Rads – 155 °F
4. Cast Iron Rads – 150 °F

- **To change REF TEMP:**

  While on the *REF TEMP* setting, hold < 🖃 > and turn

  dial ( ) to proper design temperature

REMOTE 1 - default is OFF, but must be changed to ON when using BFU.

- **To change REMOTE 1:**

  While on the *REMOTE 1* setting, hold < 🖃 > and turn

  dial ( ) to select ON.

ROOM COMP – you only get this setting when you turn on BFU and this must be set to 18.

- **To change ROOM COMP:**

  While on the *ROOM COMP* setting, hold < 🖃 > and turn

  dial ( ) clockwise to select 18.

OASETBACK – This must always be changed! Change to SETBACK when using standard themostats (no BFU) and RMSETBACK if using BFU room sensor.

- **To change OASETBACK:**

  While on the *OASETBACK* setting, hold < 🖃 > and turn

  dial ( ) to select proper setting.

OFFSET – Will change according to system design. Program for the following:

1. Baseboard, Panel Rads, and Cast Iron Rads – 0 (default)
2. Hydro-Air – Must be changed to 9

- **To change OFFSET:**

  While on the *OFFSET* setting, hold < 🖃 > and turn

  dial ( ) clockwise until 9 is selected.

Use the following under *CIRCUIT 2*:

REF TEMP – Rule of thumb: set *REF TEMP* 10 °F lower than design water temp

Examples:
1. Staple up (No Plates) 135 °F
2. Below sub-floor w/ plates 125 °F
3. Quick-track (or equal) 115 °F
4. Slab (nothing over) 90 °F

** All other settings under *CIRCUIT 2* will follow same rules as *CIRCUIT 1*.

Additional Rules

1. Never use a BFU with a hydro-air

2. If you are using the hydro-air settings above and circuit 2 for radiant, you must adjust circuit 2 temp down. Raising the day temp setting to 86 will also have an effect on circuit 2.

3. All settings listed above are starting points only – the heating curve may need to be adjusted further after the system is up and running. It is always best to start the curve low and work up from there.

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