

Biasi 1099911010

Biasi Digital Programmable Thermostat User Manual

Model: 1099911010

1. PRODUCT OVERVIEW

The Biasi 1099911010 is an advanced electronic programmable room thermostat featuring an LCD display, specifically designed for controlling various types of heating systems. It offers precise temperature control and flexible programming options to optimize comfort and energy efficiency.

Key features include:

- Electronic programmable thermostat with LCD display.
- Compatible with electrothermal actuators (NO/NC series 22 CX, 26LC) or WFHC modules.
- Multiple operating modes: Comfort, Reduced, Antifreeze, Auto, Timer, Holiday.
- Backlit display for easy readability.
- Key lock function.
- Temperature adjustment range: 5 – 37 °C.
- 9 standard programs and 4 customizable programs.
- Temperature differential of 0.5 K or proportional band (PWM).
- Integrated NTC temperature sensor.
- Option for external sensor regulation (NTC 10 K, 10013372).
- IP30 protection rating.
- Three control modes: via internal sensor, via external sensor (floor sensor), or via internal ambient sensor with external floor temperature limitation.



Figure 1: Front view of the Biasi Digital Programmable Thermostat, showing the LCD display and control buttons.

2. SETUP AND INSTALLATION

2.1 Mounting

The thermostat is designed for wall mounting. Choose a suitable location away from direct sunlight, drafts, or heat sources that could affect temperature readings. Ensure the mounting surface is flat and stable.

2.2 Wiring

The thermostat can be connected directly to electrothermal actuators (NO/NC series 22 CX, 26LC) or via WFHC modules. Ensure all power is disconnected before performing any wiring. Refer to the wiring diagram below for proper connections.

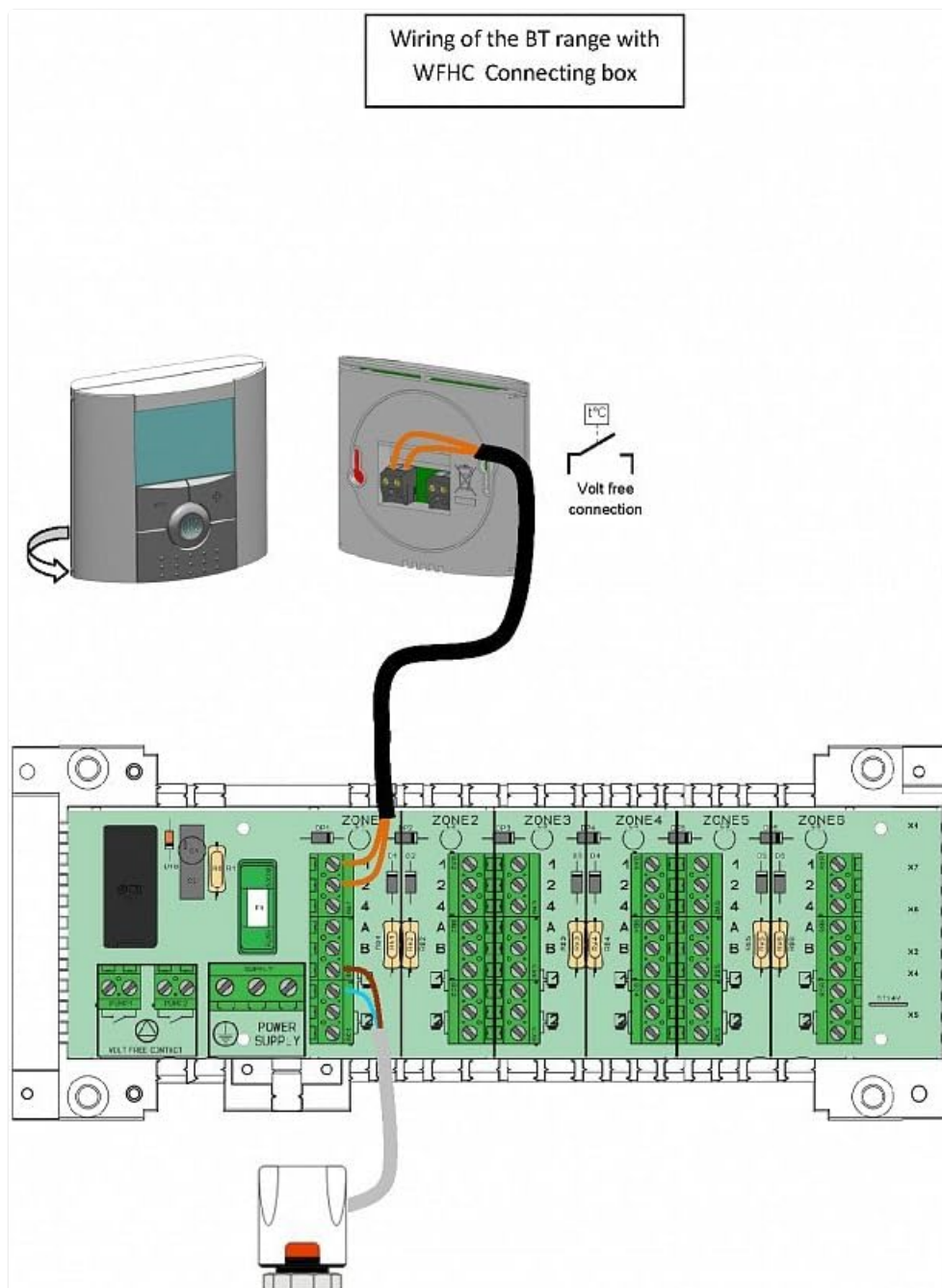


Figure 2: Wiring diagram illustrating the connection of the thermostat to a WFHC Connecting box. This diagram shows the volt-free connection points and zone wiring.

2.3 Battery Installation

The thermostat requires batteries for operation. Open the battery compartment, typically located on the back or bottom of the unit. Insert the required batteries, ensuring correct polarity. Close the compartment securely.



Figure 3: Rear view of the thermostat with the battery compartment open, showing the placement of two AA batteries.

3. OPERATING INSTRUCTIONS

The Biasi thermostat offers intuitive control via its LCD display and push-button interface. The display provides real-time information on temperature, operating mode, and program status.



Figure 4: Close-up of the thermostat's LCD display and control buttons, including the 'OK' button and adjustment keys.

3.1 Basic Operation

- **Power On/Off:** Use the designated button (if available) or ensure proper wiring for continuous power.
- **Adjusting Temperature:** Use the '+' and '-' buttons to set the desired temperature. The current temperature and setpoint will be displayed.
- **Backlight:** The display features a backlight for visibility in low-light conditions. It typically activates with any button press.
- **Key Lock Function:** To prevent accidental changes, the thermostat includes a key lock function. Refer to the on-screen prompts or specific button combinations to activate/deactivate.

3.2 Operating Modes

The thermostat supports several operating modes:

- **Comfort Mode:** Maintains a comfortable temperature, typically higher than reduced mode.

- **Reduced Mode:** Maintains a lower temperature, suitable for energy saving when the space is unoccupied or during specific times.
- **Antifreeze Mode:** Prevents pipes from freezing by maintaining a minimum temperature (e.g., 5°C).
- **Auto Mode:** Follows the programmed schedule.
- **Timer Mode:** Allows for temporary temperature adjustments for a set duration.
- **Holiday Mode:** Maintains a specific temperature for an extended period, ideal for vacations.

3.3 Programming Schedules

The thermostat offers 9 standard programs and 4 customizable programs. Consult the on-screen menu for detailed instructions on setting daily or weekly schedules. This typically involves selecting time slots and desired temperatures for each mode.

3.4 Control Modes

The thermostat can operate using three distinct control methods:

1. **Internal Sensor:** Uses the built-in NTC sensor to measure ambient room temperature.
2. **External Sensor (Floor Sensor):** Connects to an optional external NTC 10 K sensor (model 10013372) to measure floor temperature, ideal for underfloor heating systems.
3. **Internal Ambient Sensor with External Floor Temperature Limitation:** Combines the internal ambient sensor with an external floor sensor to ensure the floor temperature does not exceed a set limit while maintaining the desired room temperature.

4. MAINTENANCE

4.1 Cleaning

To clean the thermostat, gently wipe the surface with a soft, damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the unit or its display.

4.2 Battery Replacement

When the battery low indicator appears on the display, replace the batteries promptly to ensure continuous operation. Refer to Section 2.3 for battery installation instructions. Always use the recommended battery type.

5. TROUBLESHOOTING

If you encounter issues with your Biasi thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display is blank	No power; dead batteries; incorrect wiring.	Check power supply; replace batteries; verify wiring connections.
Incorrect temperature reading	Thermostat located near heat source/draft; sensor malfunction.	Relocate thermostat if possible; contact support if sensor is faulty.
Heating system not responding	Incorrect mode selected; wiring issue; boiler/furnace problem.	Ensure correct operating mode; check wiring; consult boiler/furnace manual.
Cannot change settings	Key lock function active.	Deactivate key lock function (refer to operating instructions).

If the problem persists after attempting these solutions, please contact qualified technical support.

6. SPECIFICATIONS

Feature	Detail
Model Number	1099911010
Brand	Biasi
Style	Modern, compact
Power Source	Hardwire
Voltage	230 Volts
Display Type	LCD
Mounting Type	Wall Mount
Special Features	3 control modes: internal, external (floor sensor), and internal ambient with external floor temperature limitation
Specific Product Use	Boiler
Included Components	WFHC modules, external sensor (NTC 10 K, 10013372), wall mount
Temperature Control Type	Programmable
Connectivity Technology	Wired
IP Rating	IP30

7. WARRANTY AND SUPPORT

Specific warranty information for the Biasi 1099911010 thermostat is typically provided with the product packaging or can be obtained from your point of purchase. For technical support, service, or inquiries regarding warranty claims, please contact Biasi customer service or your authorized dealer.
Please retain your proof of purchase for warranty purposes.

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.

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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