

Buderus BC10

Buderus Basic Controller BC10 for EMS Instruction Manual

Model: BC10 (7747010612)

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of the Buderus Basic Controller BC10. The BC10 is designed for integration with EMS (Energy Management System) heating systems, offering basic control functionalities. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage or injury.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- **Electrical Safety:** Installation and maintenance must be performed by qualified personnel only. Disconnect power before servicing.
- **Environmental Conditions:** Do not expose the controller to moisture, extreme temperatures, or direct sunlight.
- **Intended Use:** Use the BC10 only for its intended purpose as a basic controller for Buderus EMS heating systems.
- **Damage:** Do not operate the device if it appears damaged. Contact a qualified technician for inspection and repair.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Buderus Basic Controller BC10
- Mounting hardware (screws, wall plugs)
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

The Buderus Basic Controller BC10 provides essential control and monitoring functions for your heating system. Below is an image illustrating the controller's main components.



Figure 1: Front view of the Buderus Basic Controller BC10. This image shows the main display screen and control buttons for adjusting settings and viewing system status.

4.1. Components

- **Display:** Shows current system status, temperature, and error codes.
- **Control Buttons:** Used for navigation through menus and adjusting settings.
- **Connection Terminals:** Located at the rear for electrical connections to the EMS system.

5. INSTALLATION AND SETUP

Installation should only be performed by a qualified heating technician.

1. **Power Disconnection:** Ensure the main power supply to the heating system is disconnected before beginning installation.
2. **Mounting:** Select a suitable location for the controller, away from direct heat sources or moisture. Mount the BC10 securely to a wall using the provided mounting hardware.
3. **Wiring:** Connect the BC10 to the EMS bus terminals of your Buderus heating system according to

the wiring diagram provided in your heating system's main manual. Ensure correct polarity.

- 4. **Power Connection:** Once all connections are secure, restore power to the heating system.
- 5. **Initial Configuration:** The controller will perform an initial self-test. Follow any on-screen prompts for basic setup, such as language selection or time/date settings.

6. OPERATING INSTRUCTIONS

The BC10 provides a user-friendly interface for basic control.

6.1. Navigating the Menu

- Use the **UP/DOWN** buttons to scroll through menu options.
- Press the **OK** button to select an option or confirm a setting.
- Press the **BACK** button to return to the previous menu or cancel an action.

6.2. Adjusting Temperature

- 1. From the main screen, navigate to the "Temperature" menu.
- 2. Select the desired heating circuit or hot water setting.
- 3. Use the **UP/DOWN** buttons to adjust the target temperature.
- 4. Press **OK** to save the new setting.

7. MAINTENANCE

The Buderus BC10 controller requires minimal maintenance.

- **Cleaning:** Wipe the display and casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check for any visible damage to the casing or connections.
- **Professional Service:** For internal components or complex issues, contact a certified Buderus service technician.

8. TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Controller display is blank.	No power supply or loose connection.	Check power supply to the heating system. Verify wiring connections to the BC10.
Incorrect temperature reading.	Sensor malfunction or incorrect calibration.	Consult your heating system's main manual for sensor troubleshooting. Contact service if issue persists.
Buttons are unresponsive.	Temporary software glitch.	Disconnect power to the heating system for 30 seconds, then reconnect. If issue persists, contact service.

For error codes displayed on the screen, refer to your main Buderus heating system manual or contact Buderus customer support.

9. SPECIFICATIONS

- **Model:** BC10
- **Part Number:** 7747010612
- **Compatibility:** Buderus EMS heating systems
- **Power Supply:** Via EMS bus
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)
- **Protection Class:** IP20
- **Dimensions (approx.):** Refer to product packaging or technical data sheet for precise measurements.

10. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Buderus website. Technical support can be obtained by contacting your local Buderus service partner or by visiting the support section of the Buderus website. Please have your model number (BC10) and part number (7747010612) ready when contacting support.

Official Buderus Website: www.buderus.com