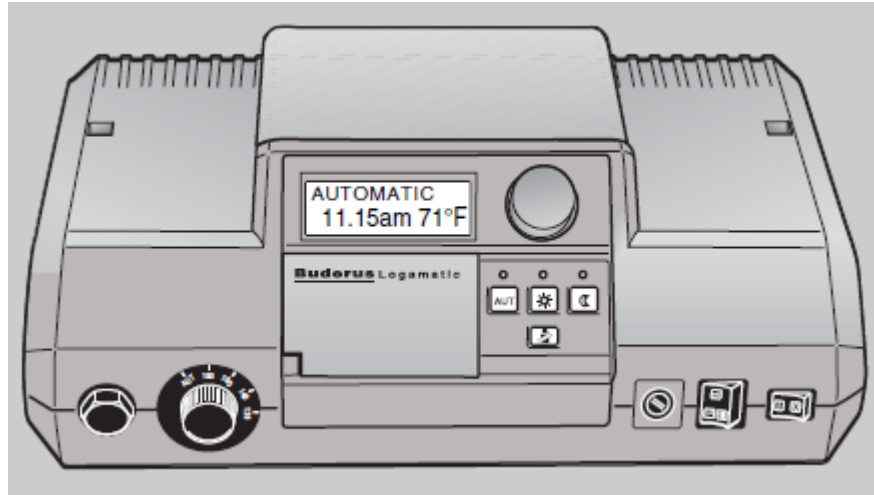


2107 Start Up



- Locate the “On/Off” button on the right front side of the control. Turn boiler and control on by pressing “On/Off” button from right to left.
- Flip down the door on the 2107 control utilizing the tab on the left side

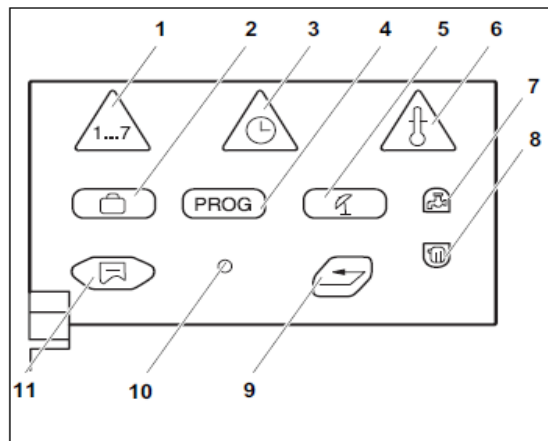


Fig. 3 Keypad for extended functions

Item 1: "Weekday" key – Enter the day of the week

Item 2: "Vacation" key - Set vacation function

Item 3: "Time" key – Set the time

Item 4: "PROG" key – Select program

Item 5: "WWSO" key

Item 6: "Temp" key – Select temperature values

Item 7: "DHW" key – Enter the domestic hot water temperature

Item 8: "Heating circuit" key – Call up the heating circuits

Item 9: "Enter" key – Back to standard display

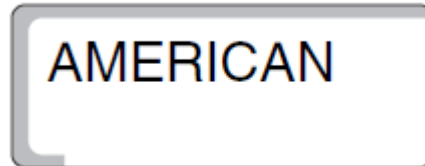
Item 10: "Install" key – Call up the service level

Item 11: "Display" key – Select the standard display

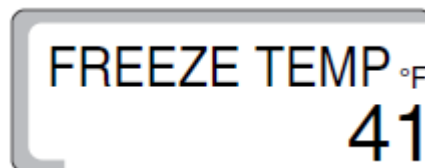
- Press the “1...7” button, the “Clock” button, and the “Return Arrow” button. With these three buttons depressed, the “Installation Levels” menu.



- “LCD Test” will now be on the screen. Turn the dial two clicks to the right so that “Reset” is on the screen. If this control has already been installed and there is a need to erase all programming, when “Reset” is on the screen, press and hold the “Torn page” (Enter) button that is located on the lower left side of the control, underneath the “Suitcase” button. Hold this button down until all of the “8’s” on the screen disappear then release the button. CAUTION: This will erase all programming of the control. It might be necessary to check the heating programming beforehand. Resetting the control will also change the control back into “German” as the language selection.



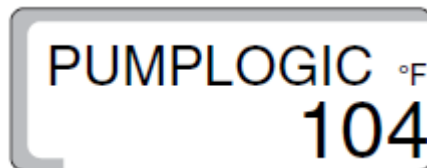
- Turn the dial two clicks to the right until the language preference is shown. If you did not reset the control, it will read “AMERICAN.” If you did reset the control, it will read “DEUTSCH.” To change this selection, press and hold the “Torn page” (Enter) button down and turn the dial until “AMERICAN” is displayed. CAUTION: Do not leave this setting on “ENGLISH” as the heating values will then be displayed in Centigrade. Release the “Enter” button when selection has been made.
- Turn the dial one click to the right which will then display “BLR TEMP.” Press the “Enter” button to open the submenu.



- “FREEZTEMP” will now be displayed. It will be set out of the box to 41°F. This will have the boiler circulator cycle when the outside temperature drops below 41°F. Press and hold the “Enter” button. Spin the dial to the right to raise the value up to 45°F or whatever temperature you desire. Release the “Enter” button when desire temperature is displayed.

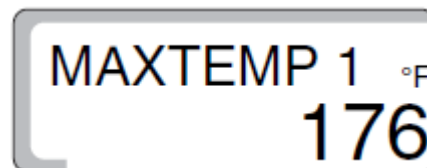


- Spin dial one click to the right. “BLDG RESP” will now be displayed. This value accounts for the building’s insulation factor – 1 being the lowest, 2 being medium, and 3 being the best. The factory setting is “2”. Press and hold the “Enter” button and spin the dial to the desired setting. Release “Enter” button when desired value is displayed.

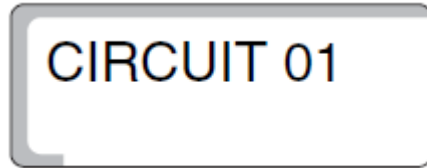


- Spin dial one click to the right. “PUMPLOGIC” will now be displayed. This temperature setting will dictate at what temperature the boiler must be before the heating circulator cycles. Factory setting is 104°F. Raising this temperature will help to raise the heat curve for outdoor reset. To change this setting, press and hold the “Enter” button while spinning the dial. For higher temperature systems such as baseboard, radiators, and fan coils, you should raise this setting to these suggested values:

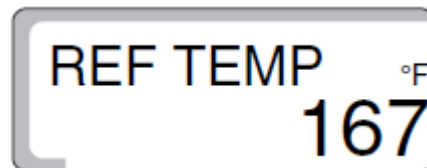
Heating Type	Suggested Temperature
Baseboard	140°F
Radiators	120°F
Fan Coils	140°F



- Turn the dial one click to the left and “MAX TEMP1” will be displayed. This will act as a high limit setting for the boiler. Factory setting is 176°F. Press and hold the “Enter” button while spinning the dial to your desired setting. When desired setting is reached, let go of the “Enter” button.

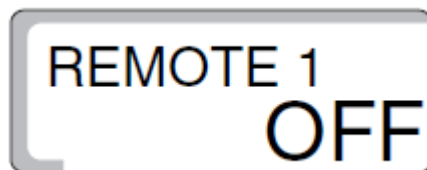


- Press the “Return Arrow” button on the control to bring you out of the “BLR TEMP” submenu. “BLR TEMP” will now be displayed. Turn the dial one click to the right so that “CIRCUIT 1” is displayed. Press the “Enter” button to open its submenu.



- “REF TEMP” will now be displayed. Reference temperature is the desired heating supply temperature when it is 14°F outside. Factory setting is 167°F. To adjust this setting, press and hold the “Enter” button while spinning the dial until you reach your desired setting, then let go of the “Enter” button.
 - For higher temperature systems such as baseboard, radiators, and fan coils, you should raise this setting to these suggested values:

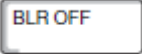
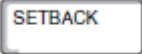
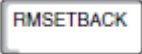
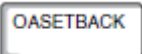
Heating Type	Suggested Reference Temperature
Baseboard	178°F
Radiators	176°F
Fan Coils	178°F

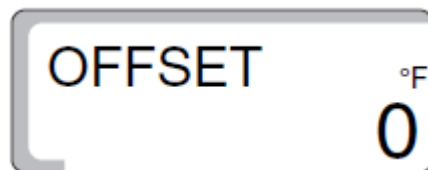


- Spin the dial one click to the right, “REMOTE 1” will be displayed. This setting will tell the control if there is a Buderus BFU room sensor installed or not. Factory setting is “OFF.” To turn on, press and hold the “Enter” while spinning the dial. Release “Enter” button when “ON” is displayed. If sensor is not present, leave in the “OFF” position.

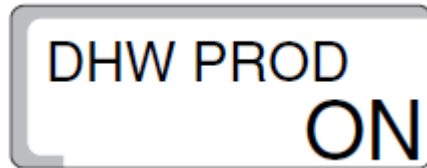
- Turn the dial one click to the right and “OASETBACK” will be displayed. This setting will program the control as to what type of setback it will be working on. Factory setting is “OASETBACK.” To adjust this value, press and hold “Enter” then spin the dial until desired setting is displayed. Release “Enter” button at that point.

➤ The different options for setback are as follows:

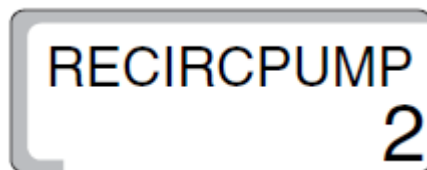
-  Boiler Off “BLR OFF”: The heating system shuts down completely during the night time as long as the outside temperature exceeds the “FREEZTEMP” setting. Below the “FREEZTEMP” setting, the circulators run in freeze protection mode. The boiler will only fire if the water temperature drops below 41°F.
-  General Setback “SETBACK”: The heating circulators continue operation and the boiler operates on a lower heating curve, firing the burner as needed. This mode is generally used when no room sensors are present and individual zones are controlled by conventional thermostats. **NOTE: This is your most common setting.**
-  Room Setback “RMSETBACK”: This mode should only be selected when a room sensor is installed and activated.
-  Outside Air Setback “OASETBACK”: The heating system (burner and heating circulators) shuts down in night mode if the outside temperature exceeds the “FREEZTEMP” setting. If the outside temperature drops below the “FREEZTEMP” then the heating system operates on a setback curve. Only use this setting if the building is not occupied at night.



- Turn the dial one click to the right and “OFFSET” will be displayed. Offset is a shift upward or downward in the heat curve. If you wish to have higher output from your heat curve, raise this setting between 5°-9°F. Factory setting is 0. To change this value, press and hold the “Enter” button then spin the dial. Release the enter button when your desired setting is displayed.



- Press the “Return Arrow” button. “CIRCUIT 1” will now be displayed. Turn the dial one click to the right. “DHW PROD” will now be displayed. This setting tells the control and boiler if there is an indirect water heater that they are responsible for. The factory setting is “ON.” If you have a tank installed, leave this setting alone. If not, press and hold the “Enter” button then spin the dial so that “OFF” is displayed then release the “Enter” button..



- Turn the dial one click to the right. If “DHW PROD” was left on, “RECIRCPUMP” will be displayed. This setting lets the control know if there is a recirculation pump installed on the domestic water system. Factory setting is “2” which will have the recirc pump cycle twice an hour for three minute intervals. You can adjust this setting from 1 through 6 intervals an hour or set it to be always “OFF” or always “ON.” To adjust this setting, press and hold “Enter” then spin the dial until your desired setting is displayed. Release “Enter” button at that point
- Press the “Return Arrow” button to return back to the main screen.
- Press the “Faucet” button to view the domestic hot water temperature. To adjust setting, press and hold “Faucet” button then spin the dial until desired temperature is displayed. Release the “Faucet” button.

Rev: 2018-04-04