

Important settings for the EasyHeat on the RB100 controllers:

1. Communication settings RB100 controller

1.1 Set communication protocol to Modbus 19200bps N81

1. Stop communication with the touchpanel (switch power to touchpanel off or disconnect communication cable)
2. Put the RB100 in stop mode with the R/S key (keep it pressed until it goes to stop mode)
3. This is not so easy: push both the [SET], [SHIFT], [DWN] and [UP] keys at the same time and hold them for more than 4 seconds
4. Enter password 0250 (adjustment mode)
5. Go to ASJL20 hardware selection with the arrow keys
6. Go to SL6 RS-485/Di selection
7. Adjust to 2: Modbus
8. Go to End, the controller now stored the settings

Please note, that only after power cycling the RB100 controller, the new settings are used.

1.2 Communication address and communication parameter setting

For correct operation, all 6 RB100 controllers must be set to the right communication address (1 for the 1st RB100, 2 for the 2nd and up to 6 for the 6th controller).

To set each controllers communication address

1. Stop communication with the touchpanel (switch power to touchpanel off or disconnect communication cable)
2. Put the RB100 in stop mode with the R/S key (keep it pressed until it goes to stop mode)
3. Keep the [SET] and [R/S] buttons pressed for a few second: F00 will appear
4. Unlock the higher engineering parameters, keep pushing [SET] until ModE appears
5. Enter 0128 (use arrow keys) and push [SET]
6. Keep pushing [SET] until F00 appears again
7. Use the arrows to go to F60 (communication parameters)
8. Set CMPS=0001 (Modbus) and push [SET]

9. Set Add to 0001 for the 1st RB100, 0002 for the 2nd and up to 0006 for the last one. This is the Modbus address. Enter the right address and push [SET]
10. Set BPS=0003 (19200bps) and push [SET]
11. Set bIT=0000(no parity, 8 databits,1 stopbit and push [SET]
12. Set INT=0010 (10ms interval) and push [SET]
13. Set CMRM=0000 (communication response monitor) and push [SET]
14. Now you are back to F60. Push the [SET] and [R/S] buttons at the same time, now you are back to the main overview.

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2. Set F21 input type to type K 0.0-800°C 1 decimal point

In order to function properly, the RB100 controllers input type must be set to thermocouple type K with a measurement range of 0.0-800.0°C with 1 decimal point.

Measurement type can be changed with the F21 parameter

1. Stop communication with the touchpanel (switch power to touchpanel off or disconnect communication cable)
2. Put the RB100 in stop mode with the R/S key (keep it pressed until it goes to stop mode)
3. Keep the [SET] and [R/S] buttons pressed for a few seconds: F00 will appear
4. Unlock the higher engineering parameters, keep pushing [SET] until ModE appears
5. Enter 0128 (use arrow keys) and push [SET]
6. Keep pushing [SET] until F00 appears again
7. use the arrow keys to go to F21 (input type) + [SET]
8. INP appears. Select 1 for a type K thermocouple 0.0-800.0°C + [SET]
9. Set decimal point PGdP to 1 (one decimal place) + [SET]
10. Leave all following settings to their default state + [SET]
11. Push the [SET] + [R/S] button at the same time to return to the operation screen

Please note, that only after power cycling the RB100 controller, the new settings are used.

3. Set F70 change rate ramp-up to hours & hour:min

In order to work properly, the ramp-up settings in parameter block F70 must be set to hours & hour:min

1. Stop communication with the touchpanel (switch power to touchpanel off or disconnect communication cable)
2. Put the RB100 in stop mode with the R/S key (keep it pressed until it goes to stop mode)
3. Keep the [SET] and [R/S] buttons pressed for a few seconds: F00 will appear
4. Unlock the higher engineering parameters, keep pushing [SET] until ModE appears
5. Enter 0128 (use arrow keys) and push [SET]
6. Keep pushing [SET] until F00 appears again
7. use the arrow keys to go to F70 (setting change rate limiter unit time) + [SET]
8. Set SVRT (time unit) to 1 (hours) + [SET]
9. Set RMU (timer time unit) to 1: (hours:mins) + [SET]
10. Push the [SET] + [R/S] button at the same time to return to the operation screen

Please note, that only after power cycling the RB100 controller, the new settings are used.