

Bin Controller Configuration/Testing

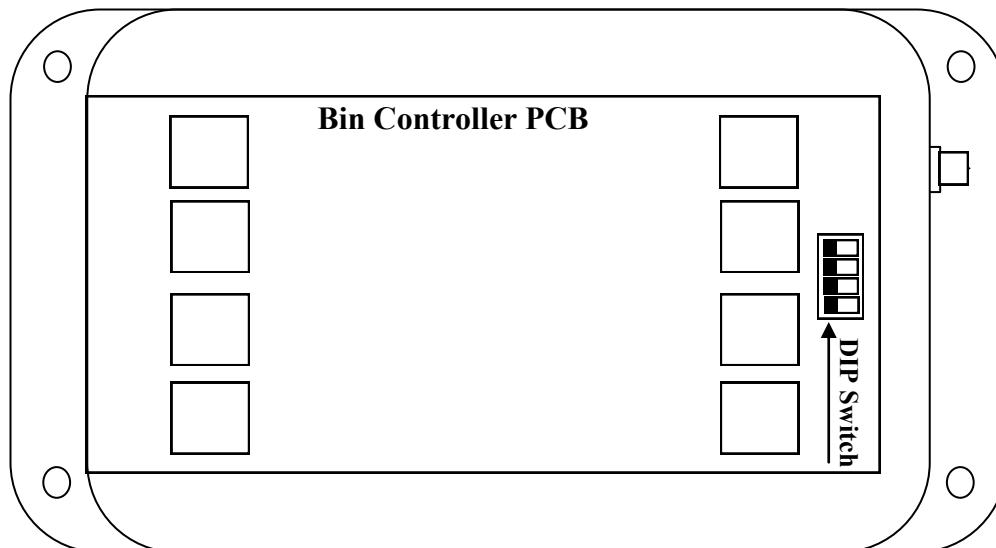
REQUIREMENTS:

1. Wireless configuration tool.
2. A serial terminal program installed on a computer, tablet or phone.
3. Be familiar with using the terminal program.
4. Valid site ID # obtained from Grainsight.
5. An accurate clamp-on amp meter (optional).

PROCEDURE:

1. Set the DIP switch (Fig. 1) to the setting found in Fig. 2 that corresponds to the desired bin number. Note: the assigned bin numbers must be sequential and start with '1'.
2. Connect the wireless configuration tool to your computer, tablet or phone.
3. Launch and configure the terminal program for communication with the wireless configuration tool as follows: 9600 - 8 - N - 1.
4. Cycle the power on the Bin Controller. When prompted, enter 'm' to enter the configuration utility. Note: the configuration utility will exit automatically after approximately 4 minutes of no activity.
5. Set the site ID. Note: once the site ID is set you can enter 'z' at anytime to view a list of all configuration settings.
6. Set the number of cables and sensors.
7. Set the number of fans and phase.
8. Set OL amps > or < 48.
9. Enter 't' to test the temp cable.
10. Enter 'h' to test the ambient, plenum and roof sensors.
11. Test fans and any heaters as per the section titled 'Testing Fans and Heaters'.
12. Cycle power to the Bin Controller or enter 'x' to exit the configuration utility.

FIG 1



Testing Fans and Heaters

It is always best to ask the owner if he will allow the fans to be run at full speed. If this is allowed, the following test procedure should be followed:

1. Set the AUTO/MAN switch on the Bin Controller to 'AUTO'.
2. Turn on each fan using the configuration. Note the time needed in seconds for each fan to reach full speed. This value should be entered into the users GUI.
3. Verify that the amps for each fan are being read by the Bin Controller.
4. Use a clamp-on amp meter to verify that the amps read by the Bin Controller are within +/- 2% of the meter reading.
5. If desired or needed, adjust the corresponding trim pot on the Aeration Controller to fine-tune the amps read by the Bin Controller.
6. If present, turn the heater(s) on and off to verify their function. Note that heaters cannot be turned on when the corresponding fan is off.
7. Turn off each fan using the configuration utility.
8. Enter 'r' to verify that each fan reads 0 amps when off.
9. If needed, enter '<' or '>' to adjust the zero amps threshold.

If the owner does not wish the fans to be run at full speed, the following test procedure should be followed:

1. Set the AUTO/MAN switch on the Bin Controller to 'AUTO'.
2. Briefly turn on each fan using the configuration utility to verify its function and that the Bin Controller is reading amps.

FIG 2

