

## Operational Overview:

The system begins in an empty state. To start, press the START button and the LCD will display instructions to select an operational mode. The three operational modes are SETUP, RUN, and LOCK. Press the SCROLL button to scroll through the options and press the ENTER button to select the mode displayed.

If in the SETUP mode, instructions will appear on the LCD to select the parameters. The LCD will iterate through P1, P2, P3, P4, P5, and show the available values for each parameter. Once a value has been chosen for a parameter, the LCD will iterate through to the next parameter and show the values for that parameter. Once the parameters have been properly set, the system will ask the user to press the START button. At this point, the user can decide to enter RUN mode or any of the other modes. To exit at any stage, press the START button. Note that an incomplete setup will prevent the user from entering the RUN mode.

If in the RUN mode, instructions will appear on the LCD to run the system. If the system has not been initialized properly using the SETUP mode, then the system will not begin running. Otherwise, it will run with the given parameters.

If in the LOCK mode, instructions will appear on the LCD to decide which locked mode (open or closed) to run. Press SCROLL to go through the options and press ENTER to select one. Once selected, the system will either fully open or close the door in the LOCK state.

