MANUAL GUIDE:

RED BUTTON:

1. Select main menu display, cycle up to 3 times.

    o   **Short** press the RED BUTTON to cycle through the main menu options on the OLED display:

        1. Set Height

        2. Set Data

        3. Tank Display

    o   The **">"** symbol highlights the selected option.

2. **Hold** (for 1 second) if want to take measurements.

    o   **Long** press the **RED BUTTON** for **1 second** while in tank display (after pressing **GREEN BUTTON**) to start the ultrasonic measurement mode.

    o   The display will show real-time tank data (e.g., percentage, height, weight, liters) for the selected tank (based on **YELLOW 1 setting**).

GREEN BUTTON:

1. **Short** press to **ENTER** the select main menu.

   o After selecting a main menu option with the **RED BUTTON**, short press the **GREEN BUTTON** to enter the selected mode:

      ▪ *Set Height*: Configure tank heights.

      ▪ *Set Data*: Choose between hardcoded or variable data.

      ▪ *Tank Display*: View tank levels.

2. **Hold** (for 1 second) to enter variable data setup.

   o From the "*Set Data*" menu (after selecting with **RED BUTTON** and entering with **GREEN BUTTON**), long press the **GREEN BUTTON for 1 second** (after selecting the "**SET**" sub options in **Set Data** menu) to enter the variable data setup mode.

   o This allows you to set custom height and weight data points for each tank using **YELLOW 2** and the rotary encoder.

YELLOW 1 BUTTON:

1. Short press to cycle through sub-options in a menu.

   o In **Set Height** mode: Cycles through Tank A, B, C to set heights.

   o In **Set Data** mode: Cycles through YES, NO, SET options to choose the data set.

   o In **Tank Display** mode: Cycles through Tank A, B, C to view levels, or shows a back arrow **("<--")** to exit.

   o In **Variable Data Setup** mode: Switches between Tank A, B, C to set custom data points.

2. **Hold** (for 1 second) to confirm data set choice.

   o In the "*Set Data*" menu:

      ▪ **Long** press **YELLOW 1** on "YES" to use variable data (custom values).

      ▪ **Long** press **YELLOW 1** on "NO" to use hardcoded data (predefined values).

      ▪ **Long** press **GREEN BUTTON** on "SET" to set the custom values.

   o The choice is saved to the SD card after a long press.

YELLOW 2 BUTTON:

1. **Short** press to cycle through variable data points.

    o In **Variable Data Setup** mode (after long pressing **GREEN BUTTON** in "**Set Data**"):

       ▪ Short press YELLOW 2 to cycle through 20 data points (1-20) for the selected tank (chosen with **YELLOW 1**).

       ▪ Each press alternates between height and weight (e.g., 1 Height, 1 Lbs, 2 Height, 2 Lbs, etc.).

    o Use the rotary encoder to adjust the height (cm) or weight (lbs) for the current data point.

    o Values are saved to the SD card with each **YELLOW 2** press.

ROTARY ENCODER:

1. Turn the knob clockwise or counter clockwise to increase the value.
2. If you decrease the value, **press** the rotary encoder and turn the knob clockwise or counter clockwise.
3. **Press** the rotary encoder again if you want to increase the value.

ADDITIONAL NOTES:

- **Ultrasonic Mode**: After long pressing the RED BUTTON, the system measures the tank selected by **YELLOW 1** (Tank A, B, or C) and displays real-time data:

    o Tank name, percentage, height (cm), weight (lbs), and liters.

    o To exit, short press the **RED BUTTON** to cycle back to the main menu.

- **Exiting Menus**:

    o From **Set Height** or **Set Data**, short press the **GREEN BUTTON** to return to the main menu.

    o From **Tank Display**, press **YELLOW 1** until the back arrow ("<--") appears, then press **GREEN BUTTON** to return to the main menu.

    o From **Variable Data Setup**, short press the GREEN BUTTON to return to the main menu.