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Enclosure Design

Front:

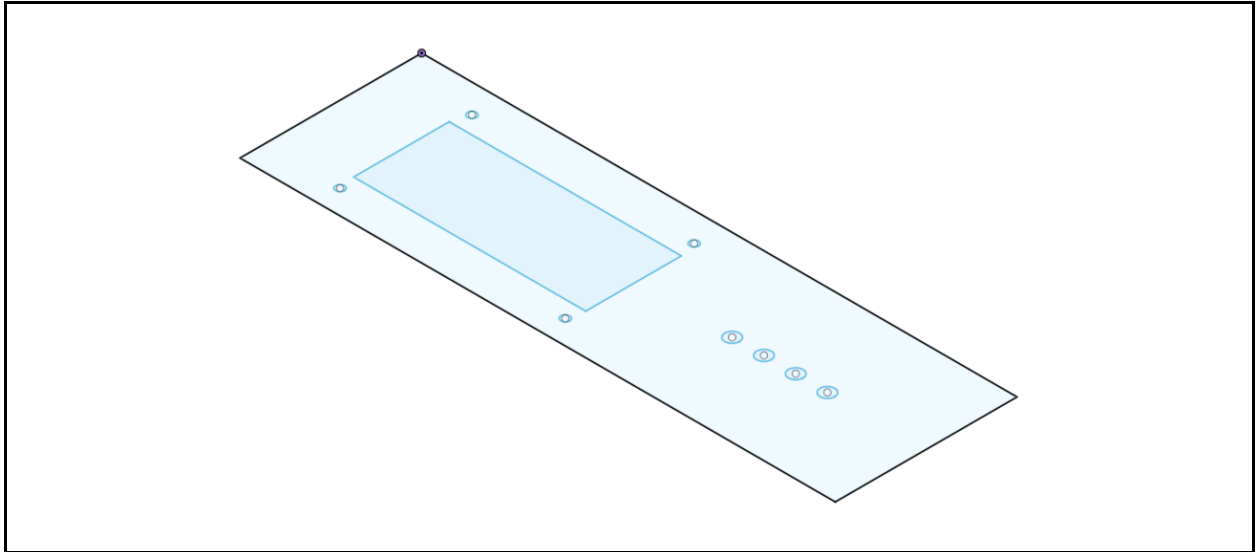


Figure 1: Enclosure Layout of the Front

On the left side, we have a cutout for the LCD screen to attach to. On the right side, we have four circle cutouts to attach the positive and negatives of each channel output (2 holes for each channel). The material is acrylic.

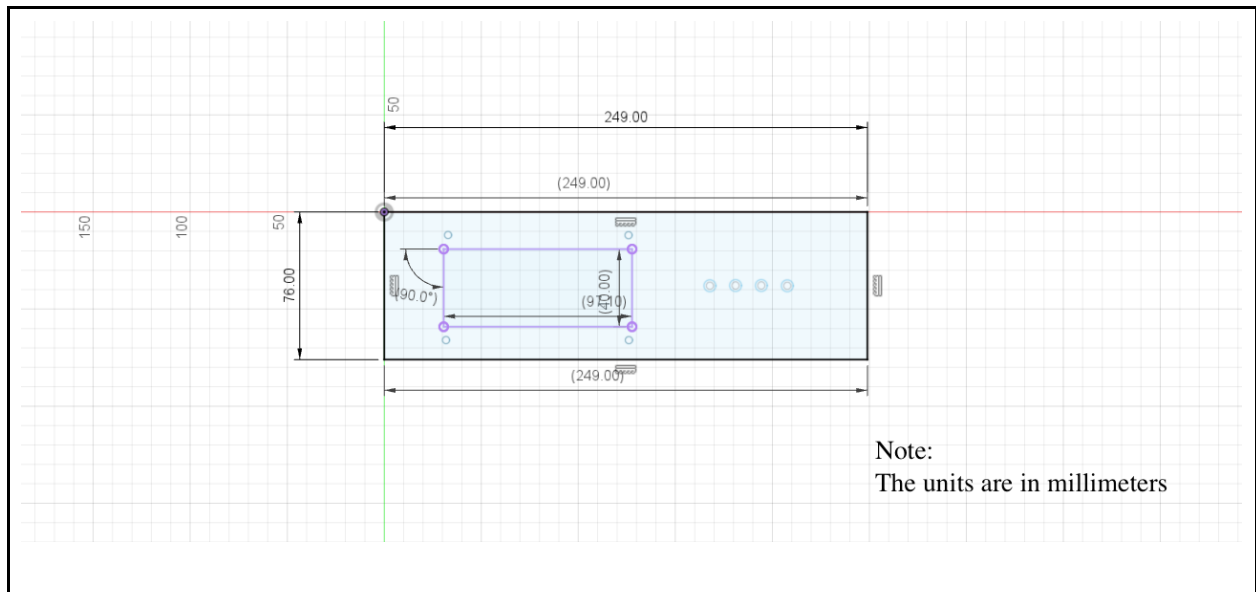


Figure 2: Measurement Specifications

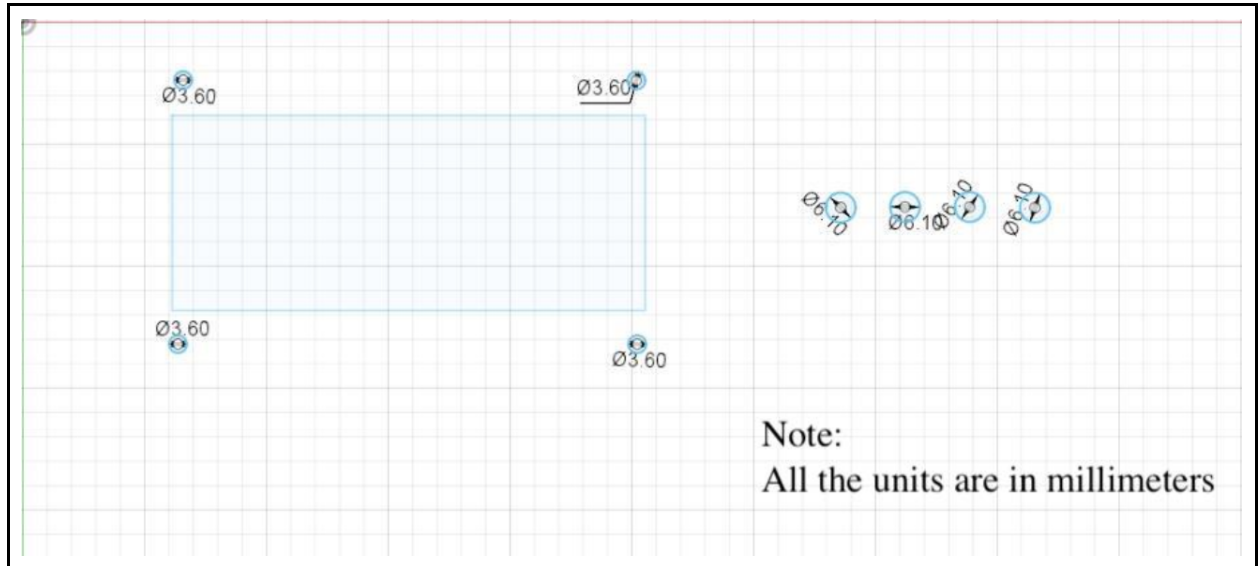


Figure 3: Measurement Specifications for Mounting Holes

The mounting holes for the LCD screen are 3.60 mm in diameter while the ones for the channel outputs have a diameter of 6.10mm. In Figure 2, the length of the board is 249mm and the width is 76mm.

Back:

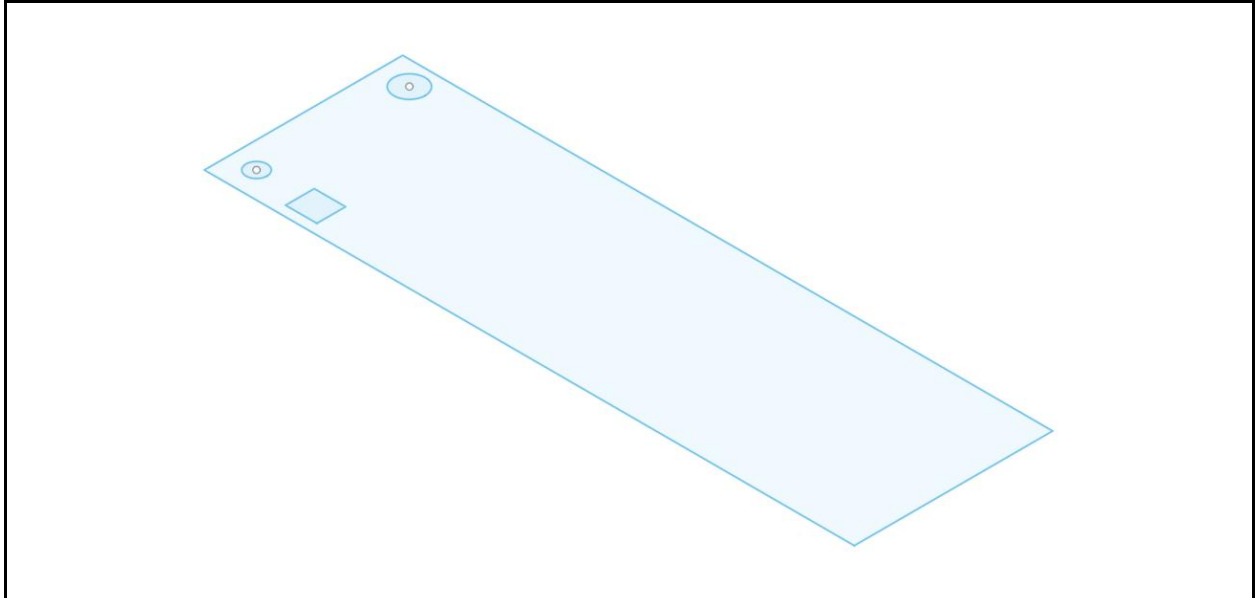


Figure 4: Enclosure Layout of the Back

The back consists of three holes. The one on the top left is for the switch to turn on/turn off the system. The one on the bottom left allows the power cord to run from inside the system to the wall outlet. The rectangular hole is for the Arduino port to attach to. The material is also acrylic.

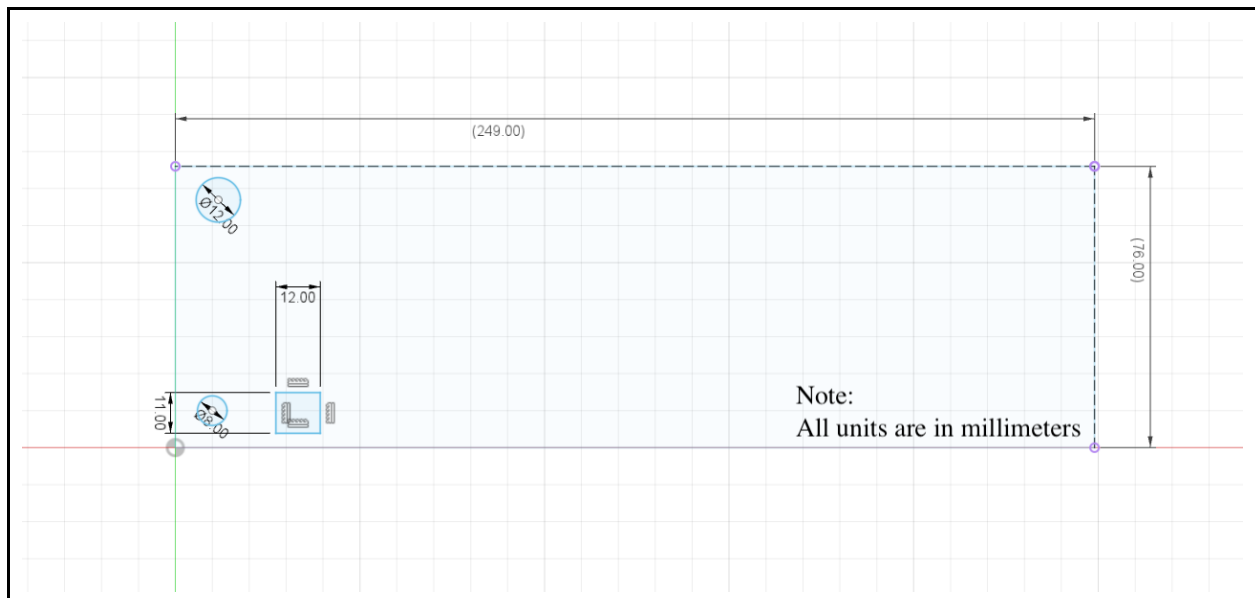


Figure 5: Measurement Specifications for the Back Enclosure

The mounting hole for the switch is 12mm wide. The one for the power cord is 8mm. To replicate the front enclosure, the length of the board is 249mm and the width is 76mm.