

4-20mA Electronics Board Assembly Guide

Thank you for choosing our 4-20mA board for your application. To ensure a smooth installation process, please follow the steps outlined below:

Step 1: Familiarize Yourself with the Components

Before beginning the installation, familiarize yourself with the two boards that make up the 4-20mA board. The boards are designed to stack on top of each other.

Bottom Board:

10 pins at the bottom that connect to the power board terminals.

1 screw at the top to secure the board in place.

Upper Board:

8 pins in the middle.

2 pins at the bottom.

2 screws to secure the upper board onto the bottom board.

Please refer to the provided picture, where the red square indicates the location of the power board terminal.

Step 2: Install the Bottom Board

Identify the 10 pins at the bottom of the bottom board.

Align these pins with the corresponding power board terminals, ensuring a snug fit.

Once aligned, gently press the bottom board onto the power board.

Secure the bottom board in place by using the provided screw at the top.

Step 3: Install the Upper Board

Align the 8 middle pins of the upper board with the corresponding male pins on the bottom board.

Carefully slide the upper board onto the bottom board, making sure the pins match exactly.

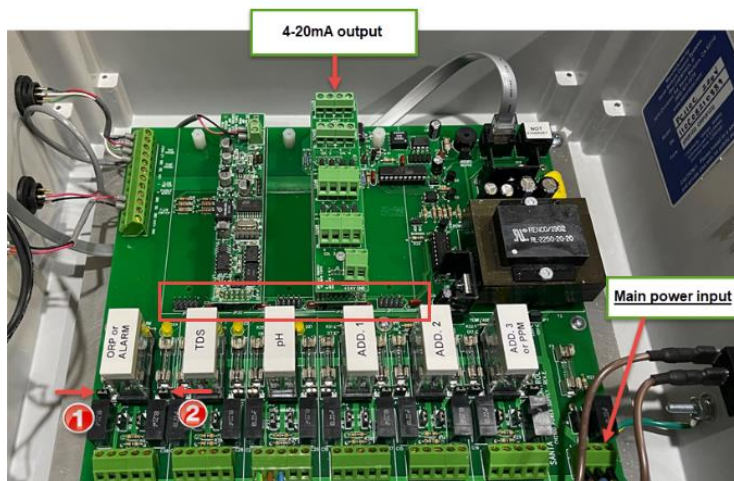
Once aligned, use the two screws provided to secure the upper board onto the bottom board.

Step 4: Final Checks

Ensure all pins are securely connected and aligned.

Tighten all screws gently to ensure both boards are firmly in place.

Double-check the alignment to guarantee a proper connection.



Software Check: 4-20mA Board Calibration and Configuration

To ensure that the 4-20mA board is properly installed and calibrated, please follow the steps below using the Chemtrol controller software:

Step 1: Access the Communication Menu

Navigate to the main menu of the Chemtrol controller software.

Move to the bottom line where the date and time are displayed.

Use the right arrow to enter the "Configuration" menu. Within the "Configuration" menu, use the up and down arrows to navigate to the "Communication" option.

Step 2: Calibrate 4-20

Use the up and down arrows to navigate to the "Calibrate 4-20" option.

Next, press the right arrow; you will be prompted to reset the calibration.

Confirm this action by selecting "YES" using the right arrow key. This calibration step is crucial to ensure accurate readings from the 4-20mA board.

Step 3: Verify 4-20mA Output

Return to the communication menu and navigate to the "4-20mA Output" option.

Check that each terminal is correctly aligned with the corresponding instruments or sensors installed. For example:

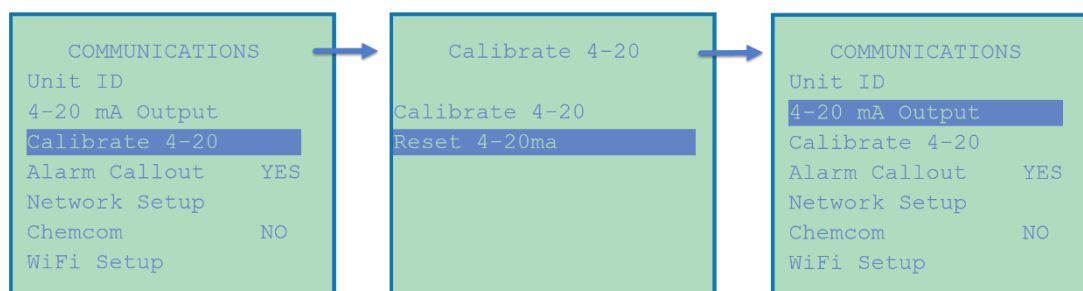
Terminal 1 = ORP

Terminal 2 = Sanitizer

Terminal 3 = pH

...and so on.

Ensure that the mapping matches the physical connections on the 4-20mA board.



Step 4: Final Verification

Use the left arrow to return to the main menu.

From the main menu, navigate to the version information by using the left arrow again.

Refer to the "Hw" row and ensure that the last two digits are "x.4.4."

Hw 01.4.4

Congratulations! Your 4-20mA board is now properly calibrated and configured using the Chemtrol controller software. If you encounter any issues or have further questions, please reach out to our customer support for assistance.

Thank you for choosing our product. We appreciate your business!