

# Omega Jr

## Quick Setup

Revision Date: March 2026



## Table of Contents

[Description](#)

[Hardware Setup](#)

[Software Setup](#)

### Description

The Omega Jr is an external controller for electronic dispensers. It can control up to 32 same-brand or mixed-brand dispensers (up to two different brands), and has a built-in diagnostics that can be accessed by using any terminal emulation software. Each PiPort can handle up to 16 fueling positions: PiPort 1 has Fueling Position numbers 1-16, while PiPort 2 has Fueling Positions 17-32. These ports are not interchangeable.

### Hardware Setup

1. USB type A to USB type B (from the computer to the DIAG port on the Omega Jr)
2. Serial Cable from PiPort to DBox
3. Dispenser wires go inside the DBox
4. Serial Cable from computer goes to POS1 or POS2 (if troubleshooting with the Utility Test Software)
5. If needed, wiring diagrams can be found [here](#).

### Software Setup

1. Open ExtraPuTTY. You can download ExtraPuTTY [here](#). (Other terminal emulators will also work.)
2. Use the correct parameters to connect to diagnostics. You can find those under the Diagnostics section of the [Omega Jr Manual](#).
3. Make sure you're using the correct COM port to access diagnostics. You can check which COM port you need to select in Device Manager. If you can't see the "USB Serial Port" listed, you will need to download and install the [FTDI Driver](#) for it.

4. After opening up the terminal window, go to the Security Code menu by typing the corresponding letter.
  - a. The security code can be calculated by doing the following:  $100 - XY = AB$ , then you take the result and invert the position of those numbers.
  - b.  $XY$  = the number given to you
  - c.  $AB$  = the result
  - d.  $BA$  = the security code
  - e. Example:  
 $100 - 25 = 75$   
The security code is 57
5. Type C to configure the Pump Brand.
6. To select the brand for each channel (meaning PiPort 1 and PiPort 2), use the A and B keys to toggle through the selections on each channel respectively. Make sure to configure both channels.
7. To save the configuration, press the ESC key. The system will restart. Any previous configurations will reset.
8. To further configure the pump, while being in the main menu again (if not just press the ESC key a couple of times to make sure) type:  
 $D \rightarrow 1$  (or 2 depending on the channel)  $\rightarrow P \rightarrow C$
9. In this menu you can toggle through each option by pressing the corresponding keys. The options on this menu will vary by pump brand. Some brands may not have configuration settings. Some configuration options are global, meaning it will affect all 16 fueling positions; others are not, and each fueling position will be required to be configured manually. Some of the configurations available will require further knowledge in regards to pump model types and specific functions that the pump may or may not be able to handle.
10. When you're done configuring the pumps, press ESC before closing the terminal window. All selections made will be saved when pressing ESC, which will take you back to the previous menu while saving your selections in the process. If you need to go back and do the same (or other) changes to the other channel, press the ESC key three times and it will take you to that menu.