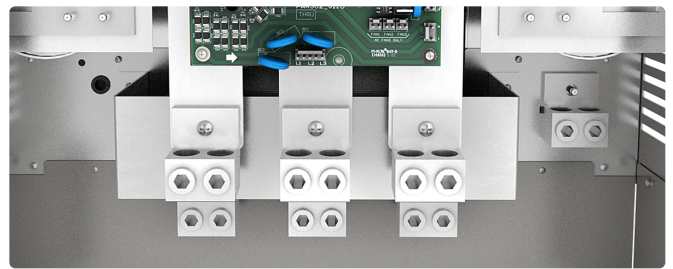




DXL 450, 4250, and 4400



DXL 4350 Input Lugs above Output Lugs

**Note:** For single-phase input, connect incoming power to L1 and L2. See derate chart in manual for current ratings.

5. If using transducer, install into a 1/4" NPT **non-metallic** fitting and run the wire back to the VFD, up to the terminal area and cut to length.

*Note: Cut transducer leads to length, DO NOT coil extra wire or connect shielding ground wire. DO NOT run transducer leads next to motor leads. If necessary, only cross transducer and motor leads at a 90 degree angle.*

6. Install the Black wire into the I1- terminal and the remaining White or Red wire into the I1+ terminal on the control board.

## Mounting the VFD

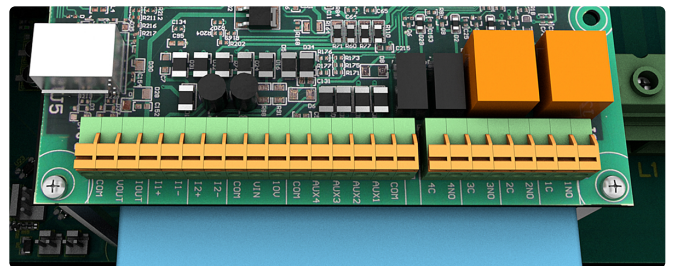
1. Mount the enclosure using provided brackets in such a way that it is fully supported.

*Note: 6" (150mm) clearance above/below and 3" (75mm) around required for ventilation.*

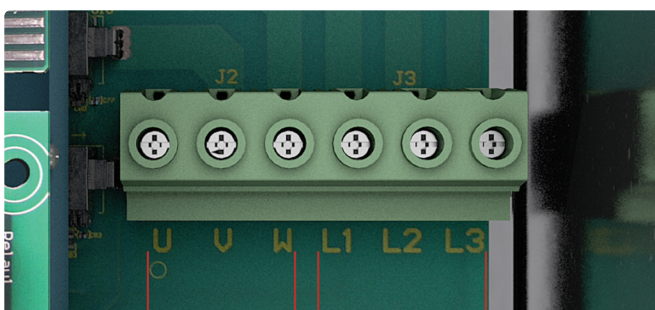
## Connect Wiring

1. Remove screws necessary to remove cover.
2. Connect motor leads to the terminal block labeled output.
3. Connect power leads to the terminals labeled input.

**Caution:** Crimp or solder (NO WIRE NUTS) any connections when splicing motor leads. Inadequate/high-resistance connections can cause nuisance faults or damage to the motor and VFD.



Terminal blocks used for connecting external inputs/outputs



Output Terminals Input Terminals

DXL 450 Input and Output Terminals

## Powering up the VFD

1. Replace the cover and reinstall previously removed screws.
2. To bypass initial setup, press the HOME button, **or**, to use the Perfect Pressure wizard, choose Yes (ENTER) when prompted.

*Note: Hold the BACK and ENTER buttons for 3 seconds to reset the VFD to default configuration*

**Optional:** To add a run/stop from a PLC, float switch, or similar, remove the orange jumper wire and make those connections to AUX2 and COM.  
**Caution: No voltage may be introduced on these terminals.**

4. Secure the appropriate ground wires into the lugs marked with the ground symbol.
- Note: 4ohms or less to earth ground recommended*

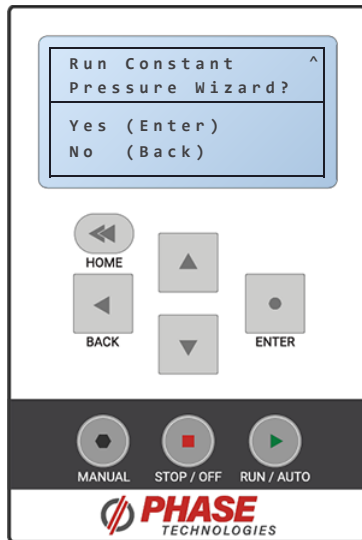


**Download  
DXL Series Manual**

[phasetechnologies.com/support/dxl](https://phasetechnologies.com/support/dxl)



### Analog Constant Pressure Setup

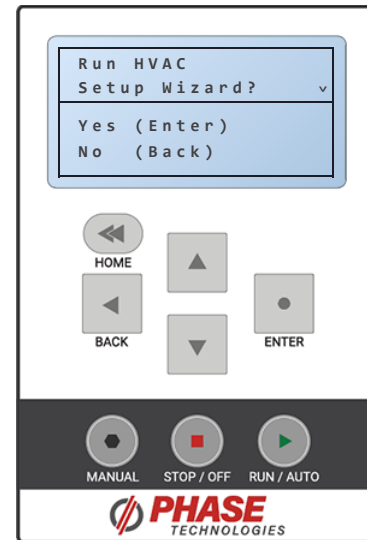


1. On start, use the arrows to toggle to "Run Constant Pressure Wizard?" - Press the **ENTER** key to proceed.
2. "4-20mA psi RANGE" - Set the psi range of the 4-20mA sensor. Default is 150psi. Press **ENTER** to proceed.
3. "psi SETPOINT" - Determines the pressure you want to maintain. The factory default is 50 psi. Use the arrow keys to change if desired. Press **ENTER** to proceed.
4. "SUBMERSIBLE PUMP" - This parameter sets the ramp profile for a submersible pump. "YES" = ramps to 30HZ in the first second to prevent excessive wear on the thrust bearing. "NO" = The frequency will increase in a linear fashion from zero to max frequency. Use the arrow keys to toggle between the two settings. Press **ENTER** to proceed.
5. "Disable Manual Mode" - The "Yes" value allows you to disable the **MANUAL** button run mode. "No" allows you to run the VFD manually on/off at max frequency.
6. "OVERCURRENT LIMIT" - Setting for motor overload protection (service factor amp rating for the motor) using the arrows to toggle. Press **ENTER** to proceed.
7. Press the **RUN/AUTO** button to start the pump.

#### Additional Notes:

1. Motor rotation must be verified upon completion of setup.
2. If the VFD is not going to sleep, first check for leaks. If there are no leaks present in the system, you may need to increase the "Shutoff Frequency" within "Constant Pressure Parameters."
3. Set pressure tank psi to 70% of VFD psi Setpoint.
4. Any of these settings can be modified if needed after the initial setup completes. For a full listing of available parameters, please refer to the product manual.

### Fan/Blower Setup



1. On start, use the arrows to toggle to "Run HVAC Setup Wizard?" - Press the **ENTER** key to proceed.
2. Choose "FAN" using the arrows to toggle - Press **ENTER** to proceed.
3. "Overcurrent Limit" - Setting for motor overload protection (service factor amp rating for the motor) using the arrows to toggle. Press **ENTER** to proceed.
4. "Min Frequency" - Set minimum output frequency allowed during start up. Press **ENTER** to proceed.
5. "Max Frequency" - Set maximum frequency / the target of start-up ramp. Press **ENTER** to proceed.
6. "HVAC Control Mode" - Select how fan speed is controlled between Start/Stop, 4-20mA, and 0-10 VDC using arrows to toggle. Press **ENTER** to proceed.
7. "Enable Restarts" - Option to enable automatic restarts in the event of a fault. Press **ENTER** to proceed.
8. "Disable Manual Mode" - The "YES" value allows you to disable the **MANUAL** button run mode. The "NO" value allows you to run the VFD manually on/off at max frequency. Press **ENTER** to proceed.
9. Press the **RUN/AUTO** button to start the HVAC system.

#### Additional Notes:

1. Typical connections: Start/Stop to AUX1 and COM, 4-20 mA analog input to I1+ and I1-, 10 VDC input to 10 V, V IN and COM.
2. **Caution: Introducing voltage to most control board connections will damage the control board. Any such damage is not covered by the product warranty. Refer to the manual to confirm proper input connections.**



**Download  
DXL Series Manual**

[phasetechnologies.com/support/dxl](https://phasetechnologies.com/support/dxl)

