To start the pump, have the VFD Control be Fully on Keypad. You do this by pressing CTRL and then enter (right button).

Please note that the VFD supplied has been programmed to the following:

Display Parameter & Name	Value
P200.000 - Control Selection	Keypad [1]
P200.001 - Frequency Control	Keypad [1]
P200.002 - PID Control	Keypad [1]
P200.003 - Toque Control	AI1 [2]
P202.002 - PID Controller Setpoint (psi) - can be anywhere between 0-15psi as it scaled for this	6 PSI
P210.000 - Min Frequency	20Hz
P211.000 - Max Frequency	100Hz
P220/21.000 - Accel/Deceleration time	0.5s
P300.000 - Motor control mode	V/f Control (Closed Loop) [7]
P301.000 - Motor operating mode	MS: Velocity mode [-2]
P430.001 - AI1 Input Range	4-20mA [4]
P430.002 - AI1 Min Frequency	0Hz
P430.003 - AI1 Max Frequency	100Hz
P430.004 - AI1 Min PID Value	0 Psi
P430.005 - AI1 Max PID Value	15 Psi
P600.001 - Process Controller Operating Mode	Normal bi-directional [3]
P600.002 - PID Process Variable	Analog Input 1 [1]
P600.005 - PID Controller Speed Min	0%
P600.006 - PID Controller Speed Max	100%
P601.000 - PID: P Component	2.5%
P602.000 - PID: I Component	400ms
P603.000 - PID: D Component	0.0 sec
P604.000 - PID Setpoint ramp	15 sec
P605.001 - PID min setpoint	0
P605.002 - PID max setpoint	300
P606.001 - PID Acceleration time	0.5 sec
P606.002 - PID Deceleration time	0.5 sec

Load your motor information as per the instructions that came with your pump - P303-P306

Pressure Sensor Settings

Wire the following into the VFD:

Positive - 24V

Negative - Ground

Signal - AI1

1. Press [Mode/Enter] until [EF] is displayed

2. Briefly press [Set]. Then use [Mode/Enter] to navigate till [Uni] then press [SET], here you can select PSI, press [Mode/Enter] to save and escape from this submenu.

3. Select [OU2] and set the function: [I] = current signal proportional to pressure 4...20 mA

4. Select [SELd] and set the type of display: - [P] for Process and then press [Mode/Enter] to save and escape from this submenu.

5. Select [ASP] (Analogue Start Point) and set the measured value at which 4 mA - 0 PSI

6. Select [AEP] Analogue End Point) and set the measured value at which 20 mA - 15 PSI

To wire motor to the VFD - Instructions for Clockwise rotation

Wiring Terminal

Black	Red	White