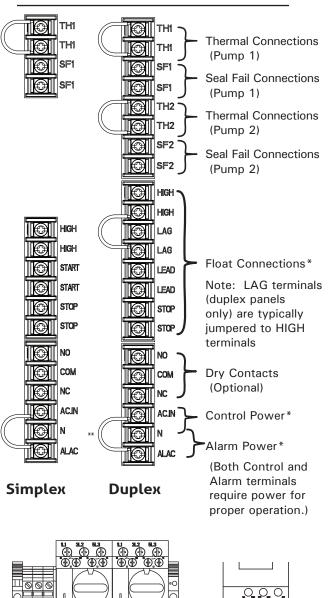
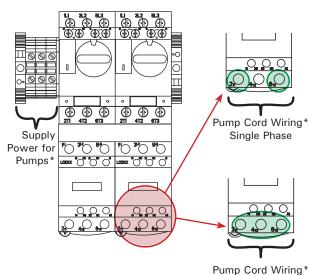


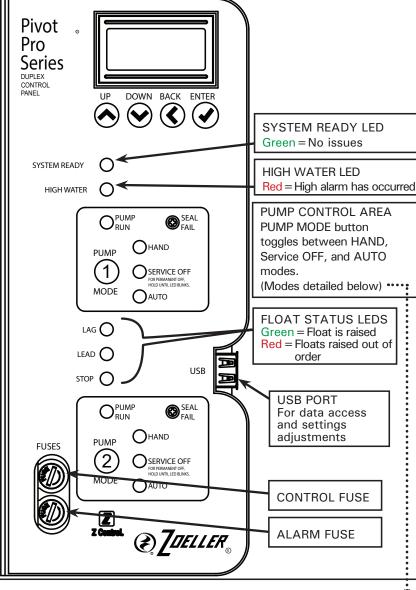
# **DELLER.** Pivot® Pro Quick Reference Guide

# **Essential Electrical Connections**





#### **Basic Functions**



#### **HAND Mode (Solid Blue LED)**

- -Pump will start and run regardless of float status.
- -After 5 minutes in HAND Mode, pump will switch to AUTO Mode

#### Service OFF Mode (Solid Red LED)

- -Pump will not operate regardless of float status
- -After 4 hours in Service OFF Mode, an alarm will sound

#### Permanent OFF Mode (Blinking Red LED)

-Deactivates pump, without alarm, until Mode button is pressed again -Hold PUMP MODE button for 5 seconds to enter Permanent OFF Mode

#### **AUTO Mode**

Three Phase

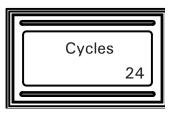
-Pump will operate automatically based on float status

# Before You Begin...

- This guide provides an overview of basic Pivot features further explanation can be found in the manual
- Pivot®Pro uses intelligent logic to keep the system operational in the event of failures certain behaviors may be unfamiliar at first
- Pivot®Pro is designed to use just 3 floats for most applications, regardless of simplex and duplex configurations

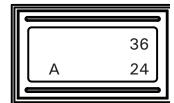
# LCD Menu

#### Simplex Default Display



Displays cycle count

#### **Duplex Default Display**



Top right: Pump 1 cycle count Bottom right: Pump 2 cycle count

'A' = Lead pump alternates based on Lead/Lag Ratio
'L' = Lead pump is set and will not alternate

Example: Pump 1 logged 36 cycles, Pump 2 logged 24 cycles. Pump 2 will start next, but lead pump will switch

NOTE: The Pivot Pro display must be unlocked before edits can be made. To unlock, press and hold the BACK and ENTER buttons simultaneously for about 1 second. Locking method can be changed in the 'Lock Set' menu item.

#### Other Menu Items

Alarms: Displays current alarms, if any

P1/P2 CC: Displays the cycle count(s)

P1/P2 ETM: Displays elapsed time meter(s)

Lead/Lag (Duplex Only): Sets the lead:lag alternating ratio or defines the lead pump

Simplex/Duplex/Alt: Sets the panel operating mode

Simplex: Only Pump 1 will operate

Duplex: Simultaneous pump operation on Lag float rise

Alt: Active pump will switch on Lag float rise

3 Floats / 4 Floats: Sets the number of floats the panel expects

**OL Alrms:** Activates alarm if physical overload trips (not all panels have overloads)

Seal Fail: Dictates whether or not the panel deactivates a pump if seal fail is detected

Cont Run: Alarm sounds if any pump run event exceeds timer (20-minute default)

**HOA Set:** Sets the timeout parameters for the HOA switch

5mH = 5-minute (default) limit in HAND Mode before panel reverts to AUTO mode 4hA = 4-hour (default) limit in Service OFF Mode before panel sounds an alarm

Thermals: Sets thermal circuit to read as normally open (NO) or normally closed (NC)

Horn Set: Sets behavior of audible alarm as Active or Latching

Globe: Sets behavior of globe as Solid, Blinking, or Alarm based

Logic: Sets panel's behavior to float input

Smart: Attempts to compensates for float issues

Relay: Responds to floats in conventional "relay-logic' fashion

Lock Set: Display securable via 3 ways: 2-Button press (BACK+ENTER), PIN, or USB Key

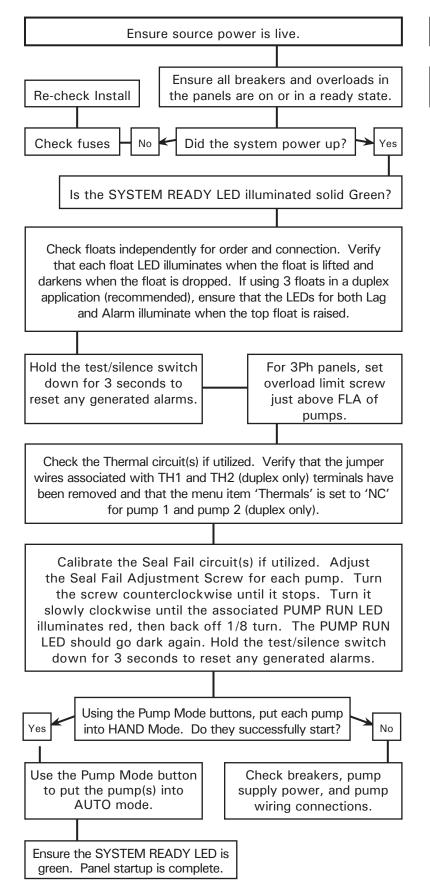


# Installation, Startup, and Troubleshooting Flowchart

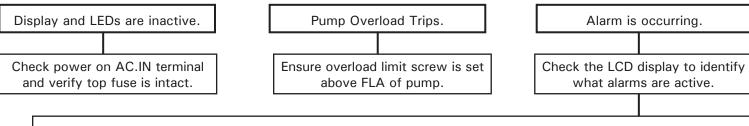
# Install

### Is this a 1Ph or 3Ph application? Single Phase Three Phase Connect 120V, 1Ph Connect the loose 'H' wire incoming control power to the proper terminal on and alarm power to board the transformer. H1 = 480V : H2 = 240V :terminals marked 'AC.IN', 'ALAC', and the common H3 = 208Vneutral 'N'. Both terminals This provides necessary must be powered for the power to the control and panel to function properly. alarm circuits. Connect 1Ph incoming pump Connect 3Ph incoming power of appropriate voltage power of appropriate to terminals marked L1, voltage to terminals L2/N (and also L3, L4/N if marked L1, L2, and L3. application is duplex). Connect pump power leads Connect pump power leads directly to bottom of motor directly to bottom of motor contactor(s) on lugs marked contactor(s) on lugs marked 2T1 and 6T3. 2T1, 4T2, and 6T3. Ensure that all pump ground wires are connected to the panel's ground bar, and that the panel itself is properly grounded. Connect float switches to the terminals on the board. 3 switches are recommended for most applications. For simplex panels, connect to terminals STOP, START, and HIGH. For duplex panels, connect to terminals STOP, LEAD, and HIGH. If 4 floats are required, additional adjustments may be necessary. Please see the Float Installation section of the manual for additional important details. If the pumps are equipped with circuits for seal fail detection and/or thermal cutout, connect the associated pump leads to the appropriate terminals on the board. If installing thermal leads, first remove the preinstalled jumper wire from the terminals. Proceed to Startup Section

# Startup



## **Troubleshoot**



Display inactive, LEDs all red, cannot silence = 240V on control circuit. Needs 120V.

Display & LEDs inactive = No power on AC.IN lug or top fuse blown AND high water condition

"AC Alarm" = No power on ALAC circuit or bottom fuse blown

"Float 1, 2, 3, or 4" = Float fault. Floats have risen or dropped out of expected order

"Hi Water" = High Water float tripped

"P1 or P2 CntRn" = Pump run exceeded Continuous Run timer

"P1 or P2 Ovrld" = Pump overload has tripped

"P1 or P2 Thrml" = Pump's internal thermal circuit has been interrupted

"P1 or P2 SIfI" = Pump's seal fail circuit has tripped

"P1 or P2 Cntct" = Motor contactor fail

"P1 or P2 Off" = Service Off mode timer (HOA Set) has been exceeded

#### **Alarm Conditions**

				User Interface LEDs			
Alarm Condition	Latching	Globe	System Ready	High Water	Pump Run (1 or 2)	Pump Off (1 or 2)	Stop, Start/ Lead, or Lag
Overload (3PH only)	No	Fast Blink	Off	Off	Solid Red	Off	Off
Failed Contactor	Yes	Fast Blink	Off	Off	Solid Red	Off	Off
Service Off Timeout	No	Double Blink	Off	Off	Off	Blinking Red	Off
Disabled Alarm Circuit	No	Double Blink	Off	Solid Red	Off	Off	Solid Red
Continuous Run	Yes	Solid	Off	Off	Blinking Amber	Off	Off
High Water Float Logic Error	Yes	Slow Blink	Off	Blinking Red	Off	Off	Off
Float Logic Error	Yes	Slow Blink	Off	Off	Off	Off	Blinking Red
Float Questionable	Yes	Slow Blink	Off	Off	Off	Off	Blinking Amber
High Water	Yes	Solid	Off	Solid Red	Off	Off	Off
Seal Fail Alarm	Yes	Fast Blink	Off	Off	Blinking Red	Off	Off
Thermal Alarm	Yes	Fast Blink	Off	Off	Blinking Red	Off	Off
High Control Voltage	Yes	Off	Blinking Green	Blinking Red	Blinking Red	Blinking Red	Blinking Red