



# Installation Operation and Service Manual

## IMPORTANT SAFETY INSTRUCTIONS

The Pipeline Communication Module can only be used when working with a Smart Pipeline Pump

### Approved Smart Pipeline Pumps:

PLP300S, PLP150S, PLP300S-SVRS, PLP150S-SVRS

**Before installing the Communication Module, switch OFF power to the pump and load center by disconnecting power at the circuit breaker.**

### MOUNTING

The Pipeline Communication Module should be mounted to a secure flat surface within the low voltage compartment of the pool's load center.

Drill and anchor two bolts or screws to the secure flat surface corresponding to the Communication Module's mounting locations.

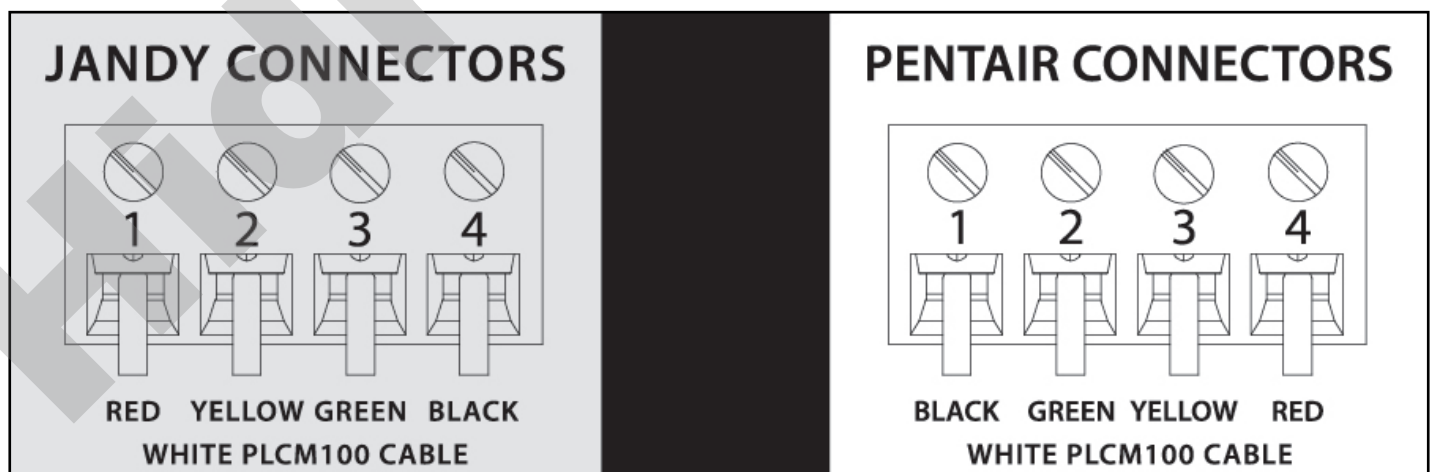
### WIRING TO CONTROLLER (COMMUNICATION MODULE TO CONTROLLER)

Measure the "TO CONTROLLER" white cable length needed to run from the PLCM to an available RS485 connector within the Controller Load Center.

Trim the white cable to length and strip the 4 wire ends back ¼".

Install the 4 wires into the RS485 connector and tighten the screw terminal to secure. Follow the wiring diagram based on the controller brand being used (see Figure 1).

FIGURE 1



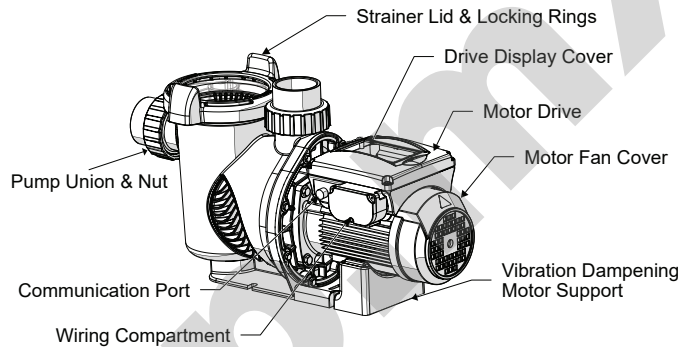
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## Installation Operation and Service Manual Continued

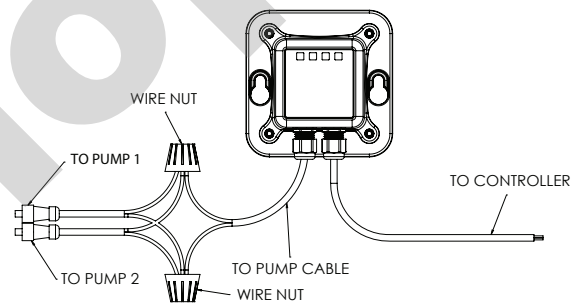
### WIRING TO PUMP (COMMUNICATION MODULE TO PUMP)

1. Route the "TO PUMP" black cable out of the load center and to the PipeLine Smart Pump. If the included cable length is too long, wrap the excess cable and zip tie inside the load center.
2. It is recommended to zip tie the cable alongside electrical conduit or PVC plumbing to prevent tripping hazards.
3. Insert the cable connector end into the "Communication Port" on the side of the PipeLine Smart Pump and turn the locking ring clockwise to lock. See Figure 2 for the location.
4. More than one pump can be controlled by a PLCM. To connect more than one pump to a PLCM, connect all "TO PUMP" cables together outside of PLCM housing. Ensuring all red and black wires are matched to their corresponding counterparts. See Figure 3 for wiring example.

**FIGURE 2**



**FIGURE 3**



### PUMP SETUP

- Once the wiring is complete, switch power ON to the pump and load center by reconnecting power at the circuit breaker.
- Press the "Menu" button to enter the settings menu.
- Use buttons "Up" and "Down" to highlight the "RS485" option and press "Enter."
- The baud rate is set to 9600 bps. Do not modify this setting.
- Use buttons "UP" and "Down" to highlight the "Replica Address" (formerly called "Slave Address") and press "Enter" to modify.
  - The Replica Address (formerly called Slave Address) is a unique pump ID to be used on external automation systems when multiple pumps are being controlled. This is set to "1" by default.
  - If multiple pumps are being controlled on the same system, ensure that each pump has its own unique Replica Address (formerly called Slave Address).
  - Press "Enter" to edit and then use buttons "Up," "Down," "Left," and "Right" to adjust these settings and press "Enter" to save.
- Press "ESC" button to return to the previous screen or repeatedly press to return to the home screen.

### CONTROLLER SETUP

1. Go into the Controller's Settings for variable speed pumps.
  - a. Refer to the controller's user manual for help.
2. Select the pump, with the correct pump Replica Address (Formerly called Slave Address) in the correct slot for your controller, and identify your Pipeline Pump as a Pentair Intelliflow VS Pump.
3. Select the RPM Range of the Pump and Change the Maximum RPM to 3400 and the Minimum RPM to 800
4. Set the prime setting within the controller to 2900 RPM for 2 minutes by default. This can be adjusted if needed.
5. Repeat Steps 2-4 for each pump connected to the PLCM.
6. Run a test to ensure the you have identified the correct pumps for your desired functions.