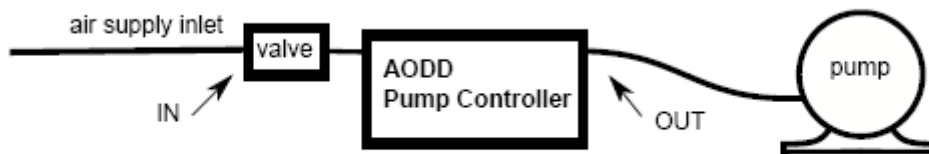


AODD Pump Controller

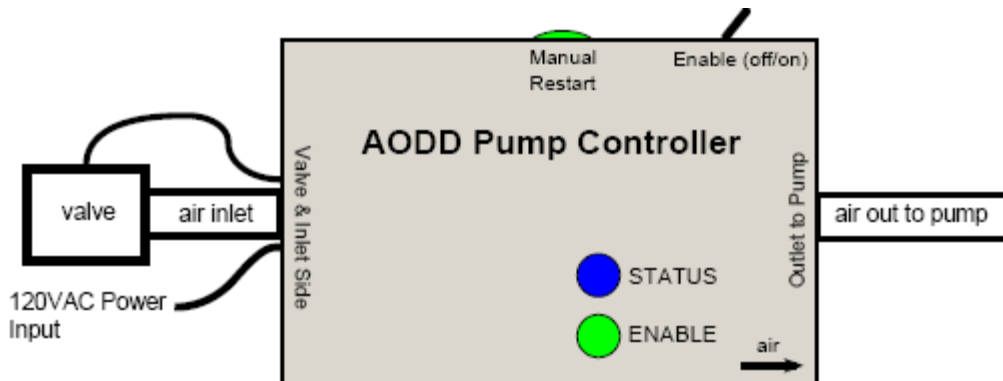
Installation and Calibration Manual

Product Overview: The AODD Pump Controller saves energy and wear on pumps by turning them off when the pumps run "dry" and are not needed. It is able to detect whether the pump is pumping fluid by monitoring the upstream air signature without having any contact with the working fluid (such as a level sensor).

When it detects dry running, it shuts off the air, and periodically turns the pump on again to check if liquid is present. It will not shut off if liquid is being pumped.



Operation: The following diagram illustrates the outer controls and indicators on the controller:



Enabled Light: When on, the unit is operating normally. When off, the unit will act like a pipe and air will flow uninterrupted. The Enable switch enables or disables the controller.

Status: Solid on when valve is open, solid off when valve is shut (dry run detected), blinking when dry run has been detected, but the controller has not yet shut off air. Note: there is a delay between dry run detection (status light blinking) and air shut off of 30 seconds to 1 minute.

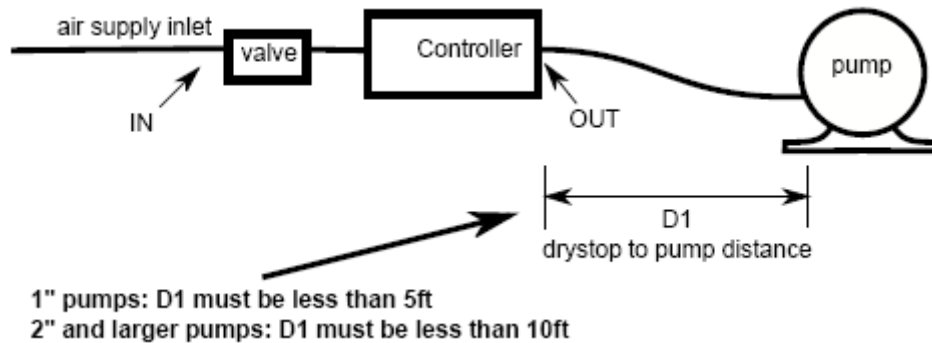
Restart: Push to manually turn air back on. Useful in applications requiring manual-only start. Set Restart Timer fully clockwise during calibration.

Enable / Disable: When switch is set to disable, the controller will not turn off air and acts as a pipe.

Calibration: Remove top cover to gain access to calibration controls.

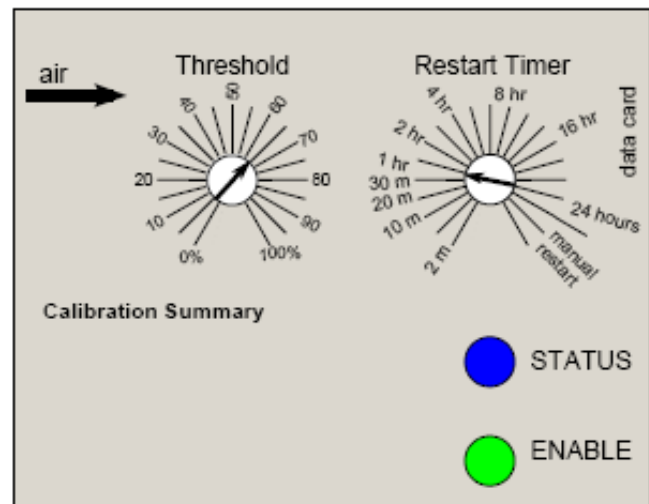
AODD Pump Controller Manual - Installation & Calibration

Installation: Be sure to follow local building and safety codes. Connect the air supply to the valve, and then to the inlet side of the DryStop unit. Connect the outlet side of the DryStop to the pump, taking note of the following length requirements:



Calibration:

1. Set Threshold to 100% (flat head screw driver), turn on pump, make sure it is running **DRY**. Make sure Enable switch is on (enable light ON). Let it run for at least 20 seconds.
2. **SLOWLY** adjust Threshold **CCW** (counter clock wise), **STOP** when Status Light blinks. Pump will turn off after about 30 seconds.
3. For 2" pumps and smaller, adjust Threshold an additional 1 line **CCW** (5%). No further adjustment should be necessary for 3" pumps.
4. Adjust Restart Timer to desired restart time, or all the way **CW** (clockwise) for manual-only restart. If the Status Light never blinks during calibration, the pump may be running too slow. Make sure at least 20 psi of pressure is available at the pump.



Inner Calibration Controls: (remove outpanel to reveal)

Troubleshooting:

If the DryStop unit turns off while the pump still has fluid, adjust the DryRun Threshold knob clockwise (CW) to a higher threshold.

If the DryStop unit fails to turn off while the pump is dry, adjust the DryRun Threshold knob counter clockwise (CCW).

Data Log Card:

An optional data card may be installed in the unit to provide energy saving and usage information, along with trouble-shooting information. If requested, the data card can be removed and sent back to the manufacturer.

While the unit is plugged in, switch the Enable Switch to ON, and then OFF. The Status light should blink for about 30 seconds while data is being recorded. After the Status Light stops blinking, unplug the unit and remove the card. The card can be removed by pushing it until the release latch clicks, and then pulling it out.