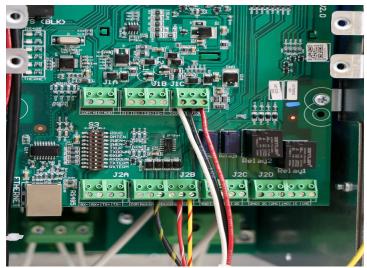


HOA & Speedpot Troubleshooting Guide





HAND | OFF | AUTO (using a Phase Technologies supplied speed potentionmeter)

Hand (Manual): In this position, the equipment is controlled manually. For a VFD, this means that the speed or operation mode (such as start/stop) is controlled manually by the operator using external controls such as a potentiometer.

Off: In this position, motor control is stopped.

Auto (Automatic): For a VFD, this means that the speed or operation mode is controlled automatically based on input signals from a pressure transducer, programmable logic controllers (PLCs), or other control systems.

HOA Wiring

COM - yellow/red

AUX1 - red/white

AUX3 - black/yellow

Speedpot Wiring

COM - white

VIN - black

10VO - red

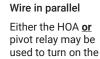
Common Issues

- Make sure keypad is set to auto. (This is the most common mistake users make)
- When submersible pump is set to "Yes" and minimum is set to "30 Hz", the speed potentiometer must be at 50% or greater for the motor to start.
- ▶ When using the VFD for constant pressure, Interface Parameters → System Config must be set to #7.
- When System Config is set to #6, the Auto functionality of the HOA switch will be disabled.
- ▶ Interface Parameters → System Config / AUX 1 Select must alway be set to "0".

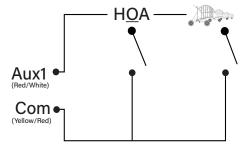
Other Scenarios

Calls for water from a PLC or pivot control relay should use Aux 2 and Com. When Aux 2 is reserved by something else, you may need to tap into the red/white wire going into Aux 1.

When tapping into the red/white wire there are two wiring options:



pump



Wire in series

Both the HOA <u>and</u> pivot relay must be used to turn on the pump

