

Department	HydroLogic		Doc #	SOP – Press Fault	
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## Standard Operating Procedure (SOP); Operating Messages - Pressure Fault

### 1. Purpose

The purpose of this SOP is to aid users in understanding a HyperLogic RO 'Operating Status Message' – 'Press Fault'

### 2. Applicable To

This SOP is applicable to all HyperLogic Commercial Series RO systems [1-12 membranes] utilizing the Advantage Controls 150 or ROC-300 microprocessor controller.

### 3. Prerequisites

Ensure you follow all state & federal guidelines for personal workplace safety prior to disassembly and/or maintenance of your HyperLogic equipment and related consumables.

### 4. Materials/Reference

Suggested tools/materials required for this operation include, but may not be limited to, the following:

- Ref. HyperLogic 'Owner's Manual'
- Ref. SOP – Set-Point

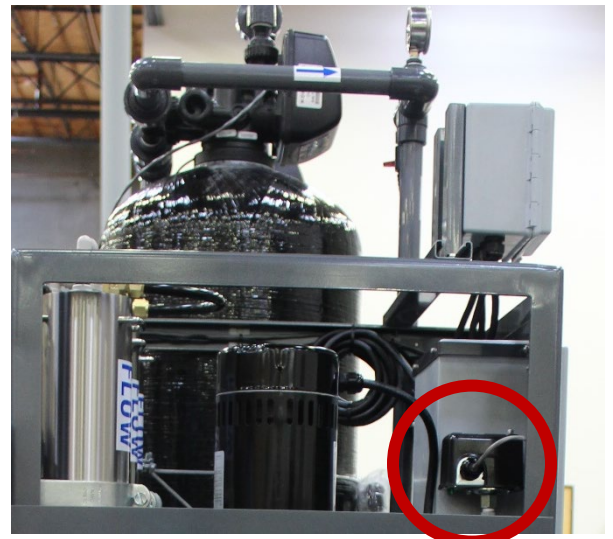
### 5. Procedure

The operating status of the RO unit is shown on the RO display. One of the possible operating system messages includes 'Press Fault,' indicating that the RO has shut down due to a pressure fault condition. If the pressure fault input becomes active and stays active for the delay programmed time Set-Point "PF [Press Fault] Delay Time." This delay is typically set to "5 Seconds".

Such conditions can be related to either a high- or low-pressure condition as measured by the two RO pressure switches. Refer to 'Figure 1' for LP Switch Wiring (often two blue wires). Common factors may include one, or more, of the following:

#### a. Low-Pressure

- The Low-Pressure switch is typically mounted on the left side of the main RO control box. Refer to image; switch circled in red.

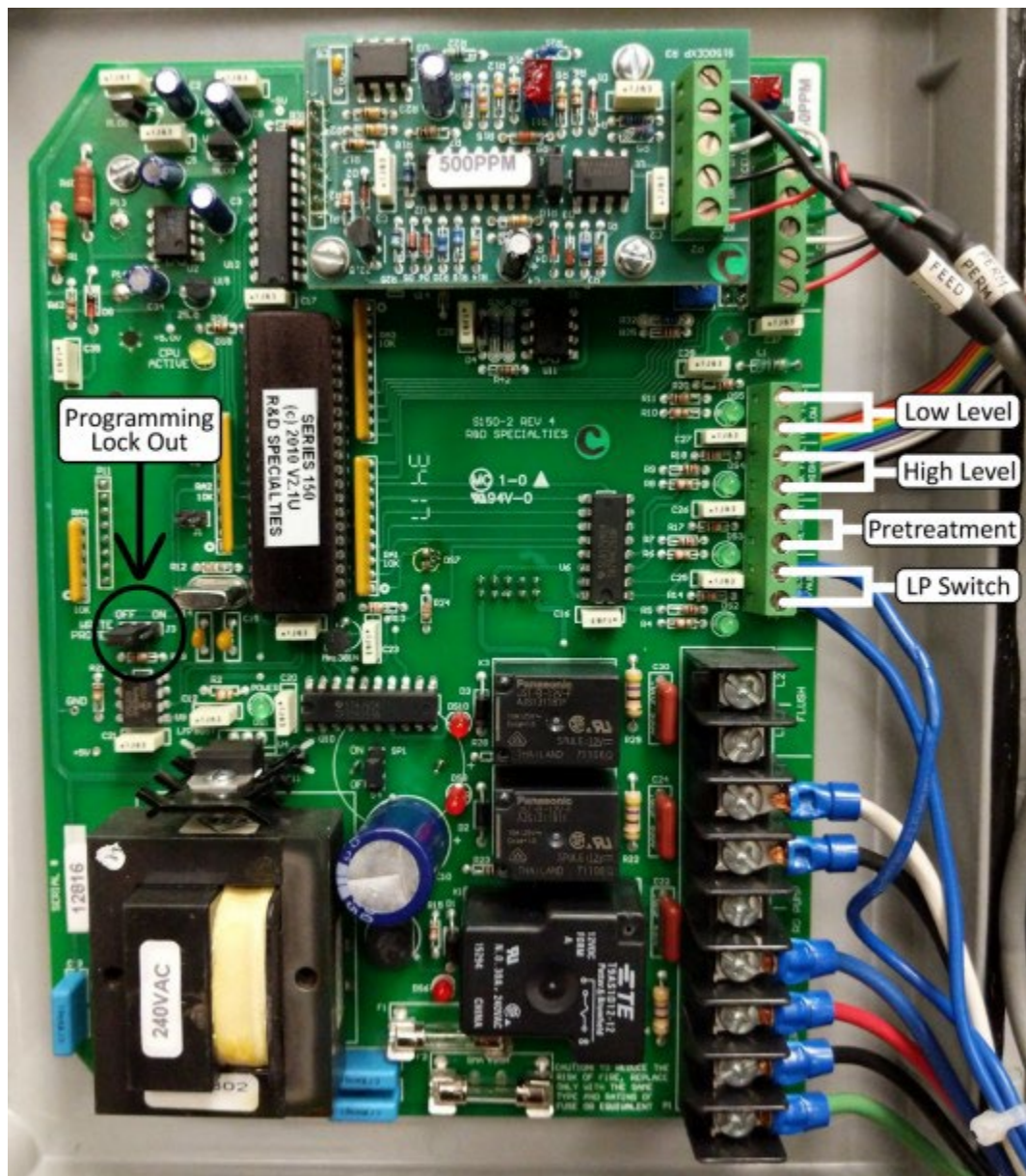


- ii. If the Filter In/Filter Out gauges drop below 20psi.
  - 1. Make sure the Sediment Prefilter has been recently changed. Refer to SOP - Sediment Filter Replacement for additional information. Change the filter with Hawthorne HGC741672 if needed.
  - 2. Verify that the Inlet Solenoid is opening, allowing water pressure to be displayed on the 'Filter In' and 'Filter Out' gauges while operating or during RO startup countdown. Refer to SOP - Inlet Solenoid for additional information on 'Inlet Solenoid' troubleshooting.

**b. High-Pressure**

- i. The High-Pressure switch is typically located near the inlet of the RO pump & has wiring that extends to the Low-Pressure switch. Refer to image; switch **circled in red**.
- ii. If the 'System Pressure' gauge exceeds a preset high value while operating. This value is often user set to be 180 psi or greater. This can be user-adjusted, if necessary. To adjust:
  - 1. Remove the Philips screw from the switch endplate. Using a 1/8" Allen wrench, adjust the set screw clockwise to increase the pressure cut off point. Counterclockwise adjustment will lower the pressure cutoff point.
- c. Once triggered, the display will read 'Press Fault,' the Alarm lamp will flash, and an audible alarm will sound. The 'Press Fault' can be cleared by pressing the 'Alarm Silence/Reset' button twice.
  - i. *Note: The Auto Reset function is not active for this type of shut down.*





**Figure 1**

END OF SOP DOCUMENT

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