Gas Pressure Setting

Ensure gas pressure check under Commissioning has been completed.

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Voltage</th>
<th>Resistance</th>
<th>Connector #</th>
<th>Pin #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red - White</td>
<td>11 ~ 13 VDC</td>
<td>Below 1 ohms</td>
<td>F6</td>
<td>FF</td>
</tr>
<tr>
<td>Grey - Grey</td>
<td>90 ~ 110 VAC</td>
<td>N / A</td>
<td>C1</td>
<td>1 - 2</td>
</tr>
<tr>
<td>Yellow - White</td>
<td></td>
<td></td>
<td>G1</td>
<td>3 - 5</td>
</tr>
<tr>
<td>Orange - White</td>
<td>2 ~ 6 VDC</td>
<td>15 ~ 35 ohms</td>
<td>G1</td>
<td>2 - 5</td>
</tr>
</tbody>
</table>

- Red - White: 11 ~ 13 VDC, Below 1 ohms (F6, FF)
- Grey - Grey: 90 ~ 110 VAC, N / A (C1, 1 - 2)
- Yellow - White: Unit in operating mode (G1, 3 - 5)
- Orange - White: 2 ~ 6 VDC, 15 ~ 35 ohms (G1, 2 - 5)

Troubleshooting

Important: There are a number of tests that must be performed when troubleshooting a water heater. Some of these tests should be performed by qualified service technicians. Other tests can be performed by the homeowner.

- Ensure the model number of the heater is correct.
- Ensure the water heater is turned off and cool to the touch.
- Ensure the power source is turned off and locked out.

Check the following:

- Gas Pressure Setting
- Electrical connections
- Flow Sensor
- Limit Switch
- Overheat Switch
- Water Flow Sensor
- Flow Switch Setting

Error Codes

- Power Interception during Bath 10 (Power interuption will not occur when power is off.)
- Check for not hot water. Turn ON/CLOSE twice.
- 352 Water Temp Sensor Fault
- 353 Water Pressure Sensor Fault
- 354 Water Flow Sensor Fault
- 355 Gas Valve Fault
- 356 Gas Pressure Setting Fault
- 357 Gas Flow Sensor Fault
- 358 Flow Switch Setting Fault
- 359 Over Temperature Warning
- Check for not hot water in flow around unit and vent terminal.
- Check for low water flow in a circulating system caused by short.
- Check for foreign materials in combustion chamber and/or exhaust piping.
- Check for clogged heat exchanger.

Wiring Diagram

Remote Controller

- Water Flow Sensor (QS)
- Gas Valve and Modulating solenoids (SV1, SV2, SV3 and POV)
- Set meter above 2K

Appliance Operating Pressures

- Red - White: 11 ~ 13 VDC
- Below 1 ohms
- Grey - Grey: 90 ~ 110 VAC
- N / A
- Yellow - White: Unit in operating mode
- G1: 3 - 5
- Orange - White: 2 ~ 6 VDC, 15 ~ 35 ohms

Remote Controls:

- Surge Protector:
- 108 ~ 132 VAC
- N / A
- D2: 1 - 3
- Black - White
- Pink - White
- N / A
- F3: 3 - 11

Dip Switches Settings

Adjust switches 2 and 3 in the bank of 8 depending on your altitude according to the table below.

The original PCB boards on the water heaters do not have additional dip switches. Only spare PCB boards have this bank.