

## PDV - Commercial Power Direct Vent

Error Code	Definition	Service Action	Possible Parts Needed
4	Low flame sense signal	Check microamps Inspect pilot assembly and wires	1) Pilot assembly 2) Control board
2	Pressure switch failed to open	Verify pressure switch is closed Check for vent restriction	1) Pressure switch
18	Gas valve fault	Change gas valve	1) Gas valve
29	Pressure switch failed to close	Verify pressure switch is open Check for vent restriction	1) Pressure switch
6	Flame sensed out of normal sequence	Verify if pilot is present Is gas valve powered by 24V? Inspect flame sensor/wire	1) Gas valve 2) Control board 3) Flame sensor
23	Flame detected before ignition	Inspect flame sensor/wire Check gas valve	1) Flame sensor 2) Gas valve
24	Flame detected after heating cycle completes	Check flame sensor Check gas valve	1) Flame sensor 2) Gas valve
31	Upper temp sensor-Incorrect reading	Measure resistance of upper sensor	1) Upper temp sensor 2) Control board
32	Lower temp sensor-Incorrect reading	Measure resistance of lower sensor	1) Lower temp sensor 2) Control board
57	Flame sensor shorted to ground	Inspect flame sensor wire Inspect pilot assembly Inspect pilot shield	1) Pilot assembly 2) Pilot shield 3) Control board
58	Power supply problem (line voltage)	Verify proper supply voltage Check grounding/polarity	1) None
59	Line voltage too low or high	Verify dedicated circuit is being used	1) None
61	DC voltage unstable	Verify transformer output is 22-27 Vac	1) Control board 2) Transformer
62	Ignition failure	Verify gas pressure Inspect pilot assembly Test for 24V from control to pilot valve	1) Pilot assembly 2) Control board 3) Gas valve
63	Ignition failure	Verify gas pressure Inspect pilot assembly Test for 24V from control to pilot valve	1) Pilot assembly 2) Control board 3) Gas valve
64	Electronics failure	Verify all electrical connections Check wire connections/ground	1) Control board 2) Display 3) Pilot assembly
65	High water temperature (over 200F)	Measure resistance of upper sensor Measure resistance of lower sensor	1) Upper temp sensor 2) Lower temp sensor 3) Control board

**NOTE:** Check all wire connections  
Check gas inlet and manifold gas pressure  
Check for grounding connections