



Gas Valve LED Codes

GAS VALVE LED	STATUS/PROBLEM	PROBABLE CAUSE	SOLUTION
Short flash once every four seconds	Normal Operating Condition/ No Fault Condition	Water Temperature setpoint has been achieved	None required
“Heartbeat”, alternates bright/dim	Calling For Heat/No Fault Conditions	Water temperature is below setpoint and burner is on	None required
One Flash, three second pause	Control still operating/ Low flame signal	<ul style="list-style-type: none"> Pilot tube restricted or damaged Carbon build-up on pilot's electrode Pilot igniter wire damaged Gas supply problems 	<ul style="list-style-type: none"> Replace Pilot assembly Correct gas supply
Two Flashes, three second pause.	System in Lockout/Flue Damper Switch closed	<ul style="list-style-type: none"> Flue Damper improperly sealed Flue Damper switch stuck closed Faulty Flue Damper motor Obstruction or debris in damper opening 	<ul style="list-style-type: none"> Inspect Flue Damper wiring and connections Replace Flue Damper Assembly Contact a qualified service technician. See "IF YOU NEED SERVICE" on page 28
Three Flashes, three second pause	System in Lockout/Flue Damper Switch open	<ul style="list-style-type: none"> Flue Damper improperly installed Flue Damper switch stuck open Faulty Flue Damper switch Incorrect wiring and/or connections Faulty Flue Damper motor Obstruction or debris in damper opening 	<ul style="list-style-type: none"> Inspect wiring and connections Replace Flue Damper Assembly Contact a qualified service technician. See "IF YOU NEED SERVICE" on page 28
Four Flashes, three second pause	System in Lockout/ Thermal Cutoff Device tripped	<ul style="list-style-type: none"> Thermal well fault in Gas Control (Thermostat) Gas Control (Thermostat) faulty Tank not filled with water 	<ul style="list-style-type: none"> Reset Gas Control (Thermostat) and check for proper cycling of control. Replace Gas Control (Thermostat) Ensure tank is completely filled with water
Five Flashes, three second pause	System in Lockout/No Flame Sense	Pilot and/or Main Burner valve has failed to open	Replace the Gas Control (Thermostat)
Six-One Flashes, three second pause	System in Lockout/ Unit failed to light	<ul style="list-style-type: none"> Pilot flame unstable Pilot tube restricted or damaged Carbon build-up on pilot's electrode Pilot igniter wire damaged Gas supply problem(s) 	<ul style="list-style-type: none"> Replace Pilot assembly Correct gas supply
Six-Two Flashes, three second pause	System in Lockout/ Flue Damper Switch opened	<ul style="list-style-type: none"> Improper Flue Damper installation Faulty Flue Damper switch Incorrect wiring and/or connections 	<ul style="list-style-type: none"> Inspect Flue Damper wiring and connections Replace Flue Damper Assembly Contact a qualified service technician. See "IF YOU NEED SERVICE" on page 28
Six-Three Flashes, three second pause	System in Lockout/ Flame Lost	<ul style="list-style-type: none"> Combustion air supply restricted or blocked Pilot tube restricted or damaged Carbon build-up on pilot's electrode Pilot igniter wire damaged Gas supply problem(s) 	<ul style="list-style-type: none"> Ensure combustion air supply is not blocked or restricted Replace Pilot assembly Correct gas supply

⚠ CAUTION: Make certain power to water heater is “OFF” before removing protective cover FOR ANY REASON.

⚠ CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. VERIFY PROPER OPERATION AFTER SERVICING.

⚠ CAUTION: For your safety DO NOT attempt repair of gas piping, remote control, burners, vent connectors or other safety devices. Refer repairs to qualified service personnel.

Gas Valve LED Codes cont.....

GAS VALVE LED	STATUS/PROBLEM	PROBABLE CAUSE	SOLUTION
Six-Four Flashes, three second pause	System in Lockout/ Flame sense out of sequence	Gas Control (Thermostat's) valve stuck open	Replace Gas Control (Thermostat)
Seven Flashes, three second pause	System in Lockout/ Presence of Flammable Vapors detected	<ul style="list-style-type: none"> Gasoline or other flammable vapor(s) were detected Faulty Flammable Vapor Sensor Faulty Gas Control (Thermostat) 	<ul style="list-style-type: none"> Ensure that no flammable vapor(s) are present Reset the Gas Control (Thermostat) using "ON/OFF" switch located on the front of the control Replace Flammable Vapor Sensor Replace Gas Control (Thermostat)
Eight-One Flash, three second pause	System in Lockout/ Flammable Vapor Sensor fault detected	<ul style="list-style-type: none"> Flammable vapor sensor values out of range Improper Flammable Vapor Sensor wiring and/or connection(s) Faulty Flammable Vapor Sensor 	<ul style="list-style-type: none"> Inspect the Flammable Vapor Sensor wiring and connection(s) Replace Flammable Vapor Sensor Replace Gas Control (Thermostat)
Eight-Two Flashes, three second pause	System in Lockout/ Energy cutoff device fault detected	<ul style="list-style-type: none"> Thermal well fault in Gas Control (Thermostat) 	<ul style="list-style-type: none"> Inspect the wiring connection(s) to the thermal well Replace the thermal well
Eight-Three Flashes, three second pause	System in Lockout/ Fault in the electronics circuit detected	<ul style="list-style-type: none"> Thermal well fault in Gas Control (Thermostat) Faulty Gas Control (Thermostat) 	<ul style="list-style-type: none"> Replace thermal well Replace Gas Control (Thermostat)
Eight-Four Flashes, three second pause	System in Lockout/ Fault with the Gas Control (Thermostat)	<ul style="list-style-type: none"> Gas Control (Thermostat) needs to be reset Gas Control (Thermostat) has been damaged 	<ul style="list-style-type: none"> Cycle the power to the Gas Control (Thermostat) Replace the Gas Control (Thermostat)

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