

NOTE: The LCD temperature display may not agree with the temperature reading of your pool or spa thermometer. The heater reads the water temperature at the inlet. Due to the circulation characteristics of any pool or spa, the water temperature at the inlet to the heater may differ from that observed at a given location in the pool or spa.

STATUS AND DIAGNOSTICS

The digital thermostat models are programmed to display a variety of status and diagnostic messages, depending on the operating conditions.

The following heat status messages are displayed in Pool, Spa, and Remote modes when there are no active fault conditions.

Display	Condition
Heating	Call for heat established, flame present
Spark	Spark operating
No Demand	Heat demand is satisfied

The following conditions are displayed in Pool, Spa and Remote modes.

Display	Condition
Sensor Failure	Thermistor temperatures disagree by more than 2°F
Sensor Open	Thermistor sensor failed open. (Below -20°F)
Sensor Short	Thermistor sensor failed short. (Above 217°F)
Flame w/o CFH	Board is sensing flame when both main and pilot valves are commanded shut.
PV Output Fault	Pilot gas valve output is not in commanded state.
MV Output Fault	Main gas valve output is not in commanded state.
LoNox Tab Fault	Voltage is sensed at the Lo NOx terminal on a non-Lo NOx heater (Lo NOx tab is intact).
Internal Fault	Board fault, replace board.
EEPROM Fault	Memory fault, reset set points, replace board if fault does not clear.
Clock/Fireman Sw	Time clock/fireman switch circuit is open.
Low Temp Lockout	Water temperature below 36°F.

The following conditions are displayed only while there is a demand for heat present.

Display	Condition
Water Sw Open	Water pressure switch open.
Vent/Field Sw #1	Vent spill switch/field switch #1 open.
Hi Limit 1 Fault	High limit 1 open.
Hi Limit 2 Fault	High limit 2 open.
Rollout Sw Open	Rollout switch open.
Flow/Field SW #2	Field-supplied flow switch/field switch #2 open.
Fan Lockout	3 fan switch faults within same heat demand cycle, power must be cycled to clear the fault.
Fan 5 Min Delay	Heater shut down for 5 minutes because LoNox fan switch didn't close.
Ignition Lockout (Propane Tab Broken)	Alternating with "No pilot sensed" - Pilot flame not established within the required time (15 sec or 90 sec). Alternating with "Main Ign Failure" - Pilot flame lost during the 8 second trial to ignite the main burner.
Ignition Failure (Propane Tab Not Broken)	Alternating with "No pilot sensed" - Pilot flame not established within 90 seconds.
Ign 6min Delay (Propane Tab Not Broken)	Alternating with "Main Ign Failure" - Pilot flame lost 4 times within the 8 second trial to ignite the main burner. Heater will lockout for 6 minutes before retrying.