



# LENNOX SLP98UHV

## DIAGNOSTIC CODES

Code	Status of Equipment	Action required to clear and recover
-	Idle mode (Decimal blinks at 1 Hertz -- 0.5 second ON, 0.5 second OFF)	
A	Cubic feet per minute (cfm) setting for indoor blower (1 second ON, 0.5 second OFF) / cfm setting for current mode displayed	
C	Cooling stage (1 second ON, 0.5 second OFF) / 1 or 2 displayed / Pause / cfm setting displayed / Pause / Repeat codes)	
d	Dehumidification mode (1 second ON) / 1 second OFF / cfm setting displayed / Pause / Repeat Codes	
h	Variable Capacity Heat (1 second ON, 0.5 second OFF) / % of input rate displayed / Pause/ cfm setting / Pause/ Repeat codes	
H	Heat Stage (1 second ON, 0.5 second OFF) / 1 or 2 displayed / Pause / cfm setting displayed / Pause / Repeat codes	
df	Defrost mode	
U	Discharge air temperature	
-	Soft disable - Soft disabling is when thermostat finds a device on the BUS that it does not recognize and the thermostat sends a the device a message to be in soft disabling mode until properly configured. Two horizontal bars will display	Steps to follow if the damper control module is displaying the soft disable code: <ol style="list-style-type: none"> <li>1- Confirm proper wiring between all devices (thermostat, damper control module, indoor and outdoor)</li> <li>2- Cycle power to the control that is displaying the soft disable code.</li> <li>3- Put the room thermostat through set up.</li> <li>4- Go to setup / system devices / thermostat / edit / then push reset</li> <li>5- Go to setup / system devices / thermostat / edit / then push resetAll</li> </ol>
E 105	Device communication problem - No other devices on BUS (Communication system)	Equipment is unable to communicate. Check for mis wire and loose connections and check for a high voltage source of noise close to the system. (welder etc.)
E 110	Low line voltage	Line Voltage low (Voltage lower than nameplate rating) Check voltage
E 113	High line voltage	Line Voltage High (Voltage higher than nameplate rating) Check voltage

E 114	Line voltage frequency out-of-range	No 60 hertz power (Check voltage and frequency)
E 115	Low 24V - Control will restart if the error recovers.	24 voltage low (Range is 18 to 30 volts) Check voltage
E 120	Unresponsive device	Usually caused by delay in outdoor unit responding to indoor unit poling recycle power, check wiring
E 124	Active communicating thermostat signal missing for more than 3 minutes	Equipment lost communication with the thermostat. Check connections and cycle power on the thermostat
E 125	Control failed self-check, internal error, failed hardware. Will restart if error recovers. Integrated furnace control not communicating Covers hardware errors (flame sense circuit faults, pin shorts, etc.)	Hardware problem on the control board. Cycle power on control. Replace if problem prevents service and is persistent.
E 126	Failed internal control communication between microcontrollers	Hardware problem on the control board. Cycle power on control. Replace if problem prevents service and is persistent
E 131	Corrupted control parameters (Verify configuration of system)	Reconfigure the system. Replace board if service (heating /cooling) is unavailable
E 180	Outdoor air sensor failure - NO error if disconnected. Only shown if shorted or out-of-range	Compare outdoor sensor resistance to temperature resistance charts in installation instructions. Replace if necessary
E 200	Hard lockout - Rollout circuit open or previously open	Correct unit cause of rollout trip or replace flame rollout switch and test furnace operation
E 201	Indoor blower communication failure - Unable to communicate with blower motor	Indoor blower communication failure including power outage.
E 202	Indoor blower motor mis-match - Indoor motor horsepower does not match unit capacity	Incorrect furnace size code selected. Check unit size codes on configuration guide or in installation instructions
E 203	Appliance capacity / size is NOT programmed. Invalid unit codes refer to configuration flow chart in installation instructions	No furnace size code selected. Check unit size codes on configuration guide or in installation instructions.
E 204	Gas valve mis-wired	Check operation of gas valve
E 205	Gas valve control relay contact shorted	Check operation of gas valve.
E 207	Hot surface ignitor sensed open - Refer to troubleshooting in installation instruction	Measure resistance of Hot Surface Ignitor, replace if open or not within specification
E 223	Low pressure switch failed open - Refer to troubleshooting in installation instruction	Check inches of water column pressure during operation of low pressure switch on heat call, measure inches of water column of operating pressure, inspect vent and combustion air inducer for correct operation and restriction
E 224	Low pressure switch failed closed - Refer to troubleshooting in installation instruction	Check low pressure switch for closed contacts, measure inches of water column of operating pressure, inspect vent and combustion air inducer for correct operation and restriction.
E 225	High pressure switch failed open - Refer to troubleshooting in installation instruction	Check inches of water column pressure of high pressure switch on heat call, measure inches of water column of operating pressure, inspect vent and combustion air inducer for correct operation and restriction
E 226	High pressure switch failed closed - Refer to troubleshooting in installation instruction	Check high pressure switch for closed contacts, measure inches of water column of operating pressure inspect vent and combustion air inducer for correct operation and restriction.

E 227	Low pressure switch open during trial for ignition or run mode. Refer to troubleshooting in installation instruction	Check inches of water column pressure during operation of low pressure switch on heat call, measure inches of water column of operating pressure, inspect vent and combustion air inducer for correct operation and restriction
E 228	Unable to perform successful pressure switch calibration	Retry after 300 seconds. Error counter cleared when exiting lockout, unable to perform pressure switch calibration Check vent system and pressure switch wiring connections
E 240	Low flame current - Run mode - Refer to troubleshooting in installation instruction	Check micro amperes of flame sensor, clean or replace sensor. Measure voltage of neutral to ground for good unit ground.
E 241	Flame sensed out of sequence - Flame still present	Shut off gas, check for gas valve leak.
E 250	Limit switch circuit open - Refer to troubleshooting in installation instruction	Check why limit is tripping, overfired, low air flow
E 252	Discharge air temperature too high (gas heat only)	Check temperature rise, air flow and input rate
E 270	Soft lockout - Exceeded maximum number of retries. No flame current sensed	Check for gas flow, ignitor lighting burner, flame sensor current.
E 271	Soft lockout - Exceeded maximum number of retries. Last retry failed due to the pressure switch opening	See E 223
E 272	Soft lockout - Exceeded maximum number of recycles. Last recycle due to the pressure switch opening	See E 223 and E 225
E 273	Soft lockout - Exceeded maximum number of recycles. Last recycle due to flame failure	See E 240
E 274	Soft lockout - Exceeded maximum number of recycles. Last recycle failed due to the limit circuit opening or limit remained open longer than 3 minutes	See E 250
E 275	Soft lockout - Flame sensed out of sequence from code 241 fault. Flame signal is gone.	See E 241
E 276	Soft lockout - Exceeded maximum number of calibration retries.	See E 228
E 290	Ignitor circuit fault - Failed ignitor or triggering circuitry	See E 207
E 291	Restricted air flow - Cubic feet per minute is lower than what is needed for minimum firing rate	Check for dirty filter, unit air flow restriction, blower performance.
E 292	Indoor blower motor unable to start - Seized bearings, stuck wheel, etc.	Indoor blower motor unable to start (seized bearing, stuck wheel, etc), replace motor or wheel if assembly does not operate or meet performance.
E 294	Combustion air inducer motor amp draw is too high	Check combustion blower bearings, wiring, amperes, replace if it does not operate or meet performance
E 295	Indoor blower motor temperature is too high	Indoor blower motor over temperature (motor tripped on internal protector)
		Check motor bearings, amperes. Replace if necessary.
E 310	Discharge error sensor failure - No error if disconnected. Only shown if shorted or out-of-range.	Discharge air temperature(DATS) out of range, code is activated during "Field test mode".

E 311	Heat rate reduced to match indoor blower air flow. Replace filter or repair duct restriction	Furnace blower in cutback mode due to restricted airflow. Check filter and ductwork. To clear replace filter if needed or repair/ add ductwork.
E 312	Restricted air flow in cooling or continuous fan mode is lower than cfm setting	Restricted airflow - Indoor blower is running at a reduced cubic feet per minute (Cutback Mode) The variable speed motor has pre-set speed and torque limiters to protect the motor from damage caused by operating out of its designed parameters (0 to 0.8 inches water column total external static pressure). Check filter and ductwork. To clear replace filter if needed or repair/ add ductwork
E 313	Indoor or outdoor unit capacity mismatch.	Incorrect Indoor /outdoor capacity code selected. Check for proper configuration in installation instructions Alarm is just a warning. The system operation is not impacted at all and alarm would clear when Commissioning is exited
E 331	Global network connection - Communication link problem	For Future Use
E 347	No 24 Volt output on Y1 to C with non-communicating outdoor unit.	Y1 relay / Stage 1 failed (Pilot relay contacts did not close or the relay coil did not energize)
E 348	No 24 Volt output on Y2 to C with non-communicating outdoor unit.	Y2 relay / Stage 2 failed (Pilot relay contacts did not close or the relay coil did not energize)
E 349	No 24 Volts between R & O with non-communicating outdoor unit (Dual fuel module required for heat pump application).	Configuration link R to O needs to be cut on control board.
E 401	LSOM - Compressor ran more than 18 hours in air conditioning mode	Compressor protector is open. Check for high head pressure, check compressor supply voltage. Outdoor unit power disconnect is open. Compressor circuit breaker or fuse(s) is open, broken wire or connector is not making contact. Low or high pressure switch open if present in the system, Compressor contactor has failed to close
E 402	LSOM - Outdoor unit system pressure trip.	Compressor ran over 18 hours in air conditioning mode
E 403	LSOM - Compressor short-cycling (Running less than 4 minutes)	Outdoor unit pressure trip. Check dirty coil, fan motor, refrigerant charge
E 404	LSOM - Compressor rotor locked	Compressor short cycling (Running less than 4 minutes)
E 405	LSOM - Compressor open circuit	Check capacitor, wiring, hard start kit , replace compressor
E 406	LSOM - Compressor open start circuit	Check compressor for hot (cool down) , check pressures, fan motor etc. Replace compressor if unable to get circuit to close and compressor to operate
E 407	LSOM - Compressor open run circuit	Check compressor for hot (cool down) , check pressures, fan motor etc. Replace compressor if unable to get circuit to close and compressor to operate
E 408	LSOM - Compressor contactor is welded.	Check compressor for hot (cool down) , check pressures, fan motor etc. Replace compressor if unable to get circuit to close and compressor to operate
E 409	LSOM - Compressor low voltage	Replace contactor

