Alert Code Addendum
- Communicating Systems

Alert Code	Alert Group	Air Handler	Furnace	Outdoor Unit	Comfort Control	User Interface Display	Fault LED	COM LED	Alert Description
1	Pressure Switch Failure		X		N/A	PS3 OPEN	3 Flash	Device count	Open Pressure Switch, third stage
						PS3 CLOSED			Shorted Pressure Switch, third stage
						PS2 OPEN			Open Pressure Switch, second stage
						PS2 CLOSED			Shorted Pressure Switch, second stage
						PS1 OPEN			Open Pressure Switch, first stage
						PS1 CLOSED			Shorted Pressure Switch, first stage
4	Low Flame Signal		X		N/A	LO FLAME SNS	8 Flash	Device count	Flame current is low, but still strong enough to allow operation.
10	Ignition Means Fault		X		ERR 10	IGNITER ERR	6 Flash	Device count	Igniter fault
						TRIAC ERR			Triac fault
18	Control Failure	X			ERR 18	CNTRL FAULT †	Solid ON ‡	N/A	Internal Control Error
18	Control Failure		X		ERR 18	CNTRL FAULT	Solid ON	Device count	Internal control failure
18	24V Sensing Error			X	ERR 18	N/A	18 Flash	N/A	24V Sensing Error (24V Missing at Y1)
19	Twinning Fault	X			N/A	TWIN ERROR	8 Flash	N/A	Air Handler Twinning Error
19	Twinning Fault		X		N/A	TWIN ERROR	None	Device count	Twinning Not Allowed with Variable Speed
20	Flame lost or Ignition failure		X		N/A	RECYCLE	2 Flash	Device count	Flame is off when flame should be detected. Furnace tries to relight itself.
						RETRY			Furnace tries to light, but no flame is detected.
22	Soft lockout due to flame lost or ignition retries		X		ERR 22	RECYCLE LO	2 Flash	Device count	10 recycles within a single call for heat will cause 1hr lockout.
						RETRY LO			3 ignition attempts in a row within a single call for heat results in 1 hr lockout.
26	High Temp Limit Fault		X		ERR 26	AUX LIMIT	4 Flash	Device count	Open Reverse Flow - Heat exchanger temperature too high. Could be caused by low airflow or fan failure.
						HIGH LIMIT	4 Flash		
						IND LIMIT	9 Flash		Open High Limit - Heat exchanger temperature too high. Could be caused by low airflow or fan failure.
27	Replace Device				ERR 27	N/A	N/A	N/A	The device needs to be replaced
33	Line Polarity Fault		X		N/A	POLARITY ERR	6 Flash	Device count	Voltage reverse polarity
34	Flame Detect Fault		X		ERR 34	FLAME ERROR	5 Flash	Device count	Flame detected, should not be present
35	Zoning Fault *				ERR 35	N/A	N/A	N/A	Duplicate zone - Another zone is present with the same zone number *
37	Duplicate Filter *				ERR 37	N/A	N/A	N/A	Another air filter timer is present *
38	Duplicate Humidifier Pad *				ERR 38	N/A	N/A	N/A	Another humidifier pad timer is present *

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39	Duplicate Humidity Sensor *				ERR 39	N/A	N/A	N/A	Another humidity sensor is present *
50	Duplicate OD Temp			X	N/A	N/A	15 Flash *	N/A	Duplicate OD Temperature Sensor *
52	Discharge Air Sensor Fault	X			N/A	DAS SHORT *	5 Flash *	N/A	Discharge Air Sensor Short Error
						DAS OPEN *			Discharge Air Sensor Open Error
53	Faulty Outdoor Sensor				ERR 53	N/A	N/A	N/A	There is a faulty outdoor temp sensor
54	Faulty Humidity Sensor				ERR 54	N/A	N/A	N/A	There is a faulty humidity sensor
59	AC Line Fault		X		N/A	AC VOLTS LOW	None	Device count	Voltage too low
						AC VOLTS HI			Voltage too high
67	Temp Sensor Fault			X	ERR 67	N/A	5 Flash	N/A	Ambient Temperature Sensor Fault (Out of Range - Open or Shorted)
							6 Flash		Coil Temperature Sensor Fault (Out of Range - Open or Shorted)
				N/A			11 Flash		Liquid Temperature Sensor Fault (Out of Range - Open or Shorted)
				N/A			13 Flash		External Outdoor Temperature Sensor Fault (Out of Range - Shorted)
68	Defrost Fault			X	N/A	N/A	2 Flash	N/A	Defrost Fault A
							3 Flash		Defrost Fault B and/or C
							4 Flash		Defrost Fault A and [B and/or C]
79	LPCO Fault			X	ERR 79	N/A	7 Flash	N/A	Low Pressure Cut Out Fault (Open outside of defrost Cycle-Hard lock out, cycle power to reset)
									Low Pressure Cut Out Fault Heat/Cool Lock out
				Wait ¤					Low Pressure Cut Out Fault (Open outside of defrost Cycle-Short lock out)
80	HPCO Fault			X	ERR 80	N/A	17 Flash	N/A	High Presure Monitor Fault (Hard lock out, cycle power to reset)
				Wait ¤					High Presure Monitor Fault (Short lock out)
87	Roll Out Fault		X		ERR 87	ROLLOUT OPEN	4 Flash	Device count	Open flame rollout
88	Ground Fault		X		N/A	GND FAULT	6 Flash	Device count	Occurs when proper earth ground is not detected.
89	Equipment Missing				ERR 89	N/A	N/A	N/A	Expected equipment is not reporting
90	Communication Busy Fault	X			N/A	SYS COMM CRC	3 Flash	Device Count	COMM System Busy Error
						BLW COMM CRC			Serial Motor Communication Busy Error
90	Communication Busy Fault		X		N/A	SYS COMM CRC	10 Flash	Device count	COMM system unrecognized response
						IND COMM CRC			Inducer Motor unrecognized response
						BLW COMM CRC			Blower motor unrecognized response
90	Communication Busy Fault			X	N/A	N/A	1 Flash	N/A	Excessive Communication Errors
90	Communication Busy Fault				ERR 90	N/A	None	N/A	Comm line busy and no idle has been detected
91	Communication Inactive Fault	X			ERR 91	NO SYS CLK	3 Flash	Fast Flash	COMM Bit Master Clock Error
						SYS COMM ERR			COMM Heat/Cool Demand Error
						BLW COMM ERR		Device Count	Serial Motor Communication Inactive Error [1]
91	Communication Fault		X		ERR 91	BLW COMM ERR	10 Flash	Device count	Blower motor no COMM response [1]
						IND COMM ERR			Inducer motor no COMM response
						SYS COMM ERR		Fast Flash	Loss of heat/cool demand
						NO SYS CLK			Loss of clock signal
91	Communication Fault			X	ERR 91	N/A	1 Flash	N/A	Loss of Heat/Cool Demand Message (COMM)
									Loss of Bit Master (Clock Signal)
91	Communication Fault				ERR 91	N/A	None	N/A	Comm line is dead and no bits have been received

Alert Code	Alert Group	Communicating Equipment			Alert Notification				Alert Description
		Air Handler	Furnace	Outdoor Unit	Comfort Control	User Interface Display	Fault LED	COM LED	
92	Fuse Failure	X			N/A +	CHECK FUSE †	Solid ON ‡	N/A	24V Fuse Open Error
92	Fuse		X		N/A	CHECK FUSE	None	Device count	24V Fuse Open
93	Gas Valve Fault		X		ERR 93	EXT GV ERR	7 Flash	Device count	Control senses 24V present at the gas valve when it should not be present.
						INT GV ERR	Solid ON		Control tried to turn on gas valve, but 24V not sensed.
									Control senses 24V present at the gas valve when it should not be present.
101	Y1 Relay Fault	X			ERR 101	Y1 ON ERR	7 Flash	N/A	Y1 Relay Stuck Closed Error
						Y1 OFF ERR			Y1 Relay Stuck Open Error
101	Y1 Relay Failure		X		ERR 101	Y1 OFF ERR	None	Device count	Y1 Output OFF when it should be ON
						Y1 ON ERR			Y1 Output ON when it should be OFF
102	Y2 without Y1 - Miswire (24V mode only)			X	N/A	N/A	10 Flash	N/A	Y2 without Y1 - Miswire (24 volt mode only)
104	Heater Relay Fault	X			ERR 104	HT ON ERR	4 Flash	N/A	Heater Relay Stuck Closed Error
						HT OFF ERR			Heater Relay Stuck Open Error
105	Heater Interlock Relay Fault	X			ERR 105	HT+LK ON ERR	4 Flash	N/A	Both Interlock Relay & Heater Relay Stuck Closed Error
					ERR 105	INTLK ON ERR	4 Flash	N/A	Interlock Relay Stuck Closed Error
					ERR 105	NTLK OFF ERR	4 Flash	N/A	Interlock Relay Stuck Open Error
106	External Shutdown Fault	X			ERR 106 *	EXT SW OPEN *	1 Flash *	N/A	External Shutdown Input Open Error
110	Return Air Sensor Fault	X			N/A	RAS SHORT *	6 Flash *	N/A	Return Air Sensor Short Error
						RAS OPEN *			Return Air Sensor Open Error
113	Liquid Pressure Sensor Fault			X	ERR 113	N/A	12 Flash	N/A	Liquid Pressure Sensor Fault (Out of Range - Open or Shorted)
114	PM Bad or Missing Fault	X			ERR 114	PM MEM ERR	2 Flash	N/A	PM Data Corrupt Error
						PM MISSING			PM Missing Error
						ID MTR ERR			Motor Mismatch Error
					N/A	PM UNIT ERR			PM Unit Data Error
						CAP MISMATCH			Compressor Capacity Mismatch Error
						PM DATA ERR			PM Data Section Error
114	Bad or Missing PM		X		N/A	PM DATA ERR	None	Device count	Data Section is Corrupt but PM is useable
						CAP MISMATCH			Compressor size does not match capacity in PM
					ERR 114	ID MTR ERR			Blower HP/OEM does not match PM Data
						PM MISSING			No PM
					N/A	PM UNIT ERR			Primary Copy of Unit Data File is Corrupt.
					ERR 114	PM MEM ERROR			Primary and Secondary copies of Unit Data File are Corrupt

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		Air Handler	Furnace	Outdoor Unit	Comfort Control	User Interface Display	Fault LED	COM LED	
114	Bad or Missing PM			X	ERR 114	N/A	14 Flash	N/A	PM Missing with local copy (Operational)
					N/A				Bad Data in PM with local copy (Operational)
					ERR 114				Bad Data in PM no local copy (Not Operational)
									PM Missing with no local copy (Not Operational)
117	Return Air Temperature Fault	X			N/A	RAS RNG ERR *	6 Flash *	N/A	Return Air Temperature Range Error
118	Discharge Air Temperature Fault	X			ERR 118 *	DAS RNG ERR *	5 Flash *	N/A	Discharge Air Temperature Range Error
						DAS UL ERR *			Discharge Air Temperature Upper Limit Error
						DAS LL ERR *			Discharge Air Temperature Lower Limit Error
119	Temperature Sensor Failure		X		N/A	TS 1 SHORT	None	Device count	Temperature sensor 1 shorted.
						TS 1 OPEN			Temperature sensor 1 open.
						TS 2 SHORT			Temperature sensor 2 shorted.
						TS 2 OPEN			Temperature sensor 2 open.
123	Demand Configuration Fault	X			N/A	DEMAND ERR *	9 Flash	N/A	Heat/Cool Demand Conflict Error*
						HT CFG ERR		N/A	Electric Heat Configuration Error
123	Demand Configuration Fault			X	N/A	N/A	16 Flash *	N/A	Demand Configuration Fault *
126	Equipment Change Alert				ERR 126	N/A	N/A	N/A	Equipment does not match value stored at startup ²
139	Communication Failure - 80% model ONLY		X		ERR 139	24V COMM MSMTCH	10 Flash	Device count	Communication Message has been detected while configured for 24V Mode

Notes:
† If Air Handler processor is reset or fuse is open, COMM Alert cannot be reported; if the processor is reset the User Interface will not be updated
* Alert flash code will not be implemented for initial release
‡ LitePort™ transmissions will be allowed during ON flash codes
+ Fuse alert notification level would show on Comfort Control, but when fuse is open the COMM bus has no power
¹ Comfort Control will switch system to "OFF" until this fault condition clears

Notes:
¹ Comfort Control will switch system to "OFF" until this fault condition clears

Notes:
4 highest priority Faults display flash codes sequentially. 2 second pause between faults and 4 second pause between sequences. Cycle power to ODU to clear Faults.
* Alert flash code will not be implemented for initial release
¤ Wait icon will appear on the Comfort Control during: Equipment minimum off time, Charge Assist™, Short lock out (see Alert Codes "7 Flash" & "17 Flash")

Notes:
² A device has changed since Auto Discovery (See Installer Guide ISU 0706 to reset)
* Alert flash code will not be implemented for initial release

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