HYDRO:EVOLVED

FAULTS AND ALARMS

VERSION 1.1

SMARTRISE

Document History

Date	Version	Summary of Changes
May 20, 2022	1.1	Add Fault 9 and Fault 878
September 21, 2021	1.0	Initial Release

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1. Faults

The Faults menu shows the faults reported by the software and hardware. To view the active faults, navigate to MAIN MENU l FAULTS l ACTIVE. To view the logged (history) faults, navigate to MAIN MENU l FAULTS l LOGGED. The user can press the right arrow and then the down button to view the information about the fault. The user then can look up the fault number to determine a resolution for the fault.

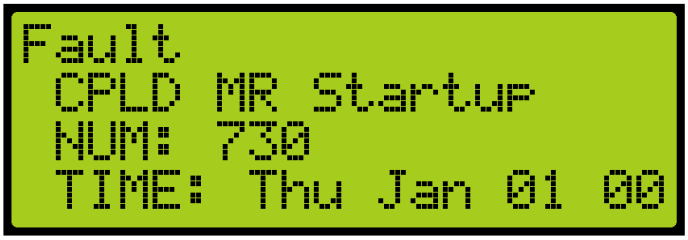

Figure 1: Fault Part 1 of 3

Figure 2: Fault Part 2 of 3

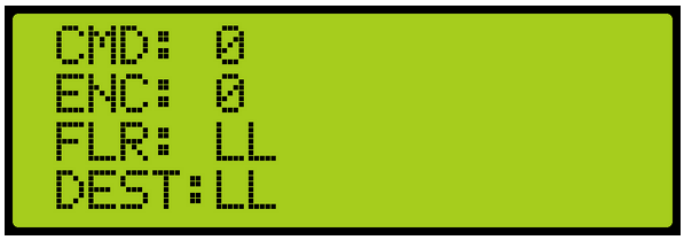

Figure 3: Fault Part 3 of 3

FAULT TYPE – Lists the name of the fault.
NUM – Lists the fault number.
TIME – Scrolls from left to right showing the day, date, and time when the fault occurred.
SPD – Displays the speed of the car when the fault occurred.
POS – Displays the position of the car when the fault occurred.
CMD – Displays the command speed when the fault occurred.
ENC – Displays encoder speed when the fault occurred.
FLR – Displays the floor level when the fault occurred.
DEST – Displays the floor destination level when the fault occurred.

The table below lists the Faults and Resolution.

Table 1: Faults and Resolution

Fault Number(s)	Code Description	Fault Description	Resolution
1-2	Governor / Governor Latch	The controller detected a loss of 120 VAC power on the MR board.	Check the fault log to see what speed the car was at when the fault was recorded. If this fault occurred while the car was stopped or at low speed, it could be a problem with the120V input on the MR board and wiring. If latched, press the EBRK RST button.
3-4	EB1_DROP/ EB1_DROP_Latched	EB1 relay is dropped when it should be picked.	Locate and press and hold the EBRK RST button at the bottom of the MR board to clear the fault.
7–8	Traction Loss / Traction Loss Latch	Detects if the car is moving faster than the command speed.	Confirm the controller speed by monitoring the CMD and fpm on the home screen of the controller. Locate and press and hold the TLOSS RST button at the bottom of the MR board to reset the fault.
9	Speed Dev	Indicates a speed issue when a valve is active.	Check for a valve that is not opening.
10	In-Car Stop Switch	The In-Car Stop switch is in the Stop position. The In-Car stop switch COP-SF2 input on the COP board is not powered or switch is wired incorrectly (reversed). The In-Car Stop switch is not present on the car but COP-SF2 input has not been jumped out.	Turn the In-Car Stop switch to the RUN position. COP-SF2 input must be high when outside of construction mode. Verify the input has power when the switch is in the RUN position and that power is removed in the STOP position. If the car does not have an In-Car Stop switch, then the COP-SF2 input must be jumped to the 24VDC bus. Check input status menu for input state in the software, if the input is present, check communication from COP to CT.

Fault Number(s)	Code Description	Fault Description	Resolution
11-39	Redundant Safety Inputs	Input read by the main MCU system and the CPLD safety system do not match. 11 – Redundancy LRB (Lock Rear Bottom) 12 – Redundancy LRM (Lock Rear Middle) 13 – Redundancy LRT (Lock Rear Top) 14 – Redundancy LFB (Lock Front Bottom) 15 – Redundancy LFM (Lock Front Middle) 16 – Redundancy LFT (Lock Front Top) 17 – Redundancy ATU (Access Top Up) 18 – Redundancy ATD (Access Top Down) 19 – Redundancy ABU (Access Bottom Up) 20 – Redundancy ABD (Access Bottom Down) 21 – Redundancy CAR_BYP (Car Bypass) 22 – Redundancy HA_BYP (Hall Bypass) 23 – Redundancy MM (Mechanic Mode) 24 – Redundancy SFM (SFM Relay)	Verify the MR board has its RDC jumper on. If the RDC jumper is on, replace the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
11-39 Cont.	Redundant Safety Inputs	25 – Redundancy SFH (SFH Relay) 26 – Redundancy PIT (Pit Switch) 27 – Redundancy IP Insp (In-Pit Inspection)28 – Redundancy MR Insp (MR Inspection) 29 – Redundancy IL INSP (In-Leveling Inspection) 30 – Redundancy C EB2 (Control Signal To EB2 Relay) 31 – Redundancy C SFM (Control Signal To SFM Relay) 32 – Redundancy M EB2 (Monitor EB2 Relay) 33 – Redundancy M SFM (Monitor SFM Relay)34 – Redundancy M EB3 (Monitor EB3 Relay) 35 – Redundancy M EB1 (Monitor EB1 Relay) 36 – Redundancy M SFP (Monitor SFP Relay) 37 – Redundancy C EB3 (Control Signal To EB3 Relay) 38 – Redundancy C EB1 (Control Signal To EB1 Relay) 39 – Redundancy C SFP (Control Signal To SFP Relay)	Verify the MR board has its RDC jumper on. If the RDC jumper is on, replace the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
40-45	Redundant Safety Inputs	Input read by the main MCU system and the CPLD safety system do not match. 40 – Redundancy GSWR (Gate Switch Rear) 41 – Redundancy GSWF (Gate Switch Front) 42 – Redundancy CT Insp (CT Inspection) 43 – Redundancy CT Stop (CT Stop Switch) 44 – Redundancy ESC Hatch (CT Escape Hatch) 45 – Redundancy Car Safety (Car Safeties)	Verify the CT board has its RDC jumper on. If the RDC jumper is on, replace the CT board.
46-49	Redundant Safety Inputs	Input read by the main MCU system and the CPLD safety system do not match. 46 – Redundancy FSS (Fire Stop Switch) 47 – Redundancy IC Stop (In-Car Stop Switch) 48 – Redundancy IC Insp (In-Car Inspection) 49 – Redundancy HA Insp (Hoistway Access Inspection)	Verify the COP board has its RDC jumper on. If the RDC jumper is on, replace the COP board.
50	SFP Relay Stuck Low	SFP relay is stuck in the OFF position.	Verify the SFP relay is tightly seated on its connecter on the MR board.
51	SFP Relay Stuck High	SFP relay is stuck in the ON position.	Verify the SFP relay is tightly seated on its connecter on the MR board.
52	SFP Relay Dropped	SFP relay has been dropped.	Investigate the fault issued by the CPLD in the active fault.

Fault Number(s)	Code Description	Fault Description	Resolution
53	EB3 Relay Stuck Low	EB3 relay is stuck in the OFF position.	Verify the EB3 relay is tightly seated on its connector on the MR board.
54	EB3 Relay Stuck High	EB3 relay is stuck in the ON position.	Verify the EB3 relay is tightly seated on its connector on the MR board.
55	EB4 Relay Stuck Low	EB4 relay is stuck in the OFF position.	Verify the EB4 relay is tightly seated on its connector on the MR board.
56	EB4 Relay Stuck High	EB4 relay is stuck in the ON position.	Verify the EB4 relay is tightly seated on its connector on the MR board.
57	EB1 Relay Stuck ON/OFF	EB1 relay is stuck in the ON/OFF position.	Verify the EB1 relay is tightly seated on its connector on the MR board.
62	Hall Door Bypass	Hall Door Bypass switch is in the ON position. Attempting to bypass locks when car is not on correct mode of Inspection.	Hall Lock Bypass switch must be in the OFF position when not on CT or IC Inspection. If attempting to bypass hall doors, make sure you are on CT Inspection or IC Inspection.
63	Car Door Bypass	Car Door Bypass switch is in the ON position. Attempting to bypass car door(s) when car is not on correct mode of Inspection.	Car Door Bypass switch must be in the OFF position when not on CT or IC Inspection. If attempting to bypass car door(s), make sure you are on CT Inspection or IC Inspection.
67	Door Overspeed Gate Switch Front	True car speed exceeded 150 fpm with front Gate switch open.	Check the front Gate switch. Adjust the valve manually and check the controller speed matches contract speed.
68	Door Overspeed Lock Front Top	True car speed exceeded 150 fpm with front top lock open.	Check the front top lock. Adjust the valve manually and check the controller speed matches contract speed.
69	Door Overspeed Lock Front Middle	True car speed exceeded 150 fpm with front middle lock open.	Check the front middle lock. Adjust the valve manually and check the controller speed matches contract speed.
70	Door Overspeed Lock Front Bottom	True car speed exceeded 150 fpm with front bottom lock open.	Check the front bottom lock. Adjust the valve manually and check the controller speed matches contract speed.

Fault Number(s)	Code Description	Fault Description	Resolution
71	Door Overspeed Gate Switch Rear	True car speed exceeded 150 fpm with rear Gate switch open.	Check the rear Gate switch. Adjust the valve manually and check the controller speed matches contract speed.
72	Door Overspeed Lock Rear Top	True car speed exceeded 150 fpm with rear top lock open.	Check the rear top lock. Adjust the valve manually and check the controller speed matches contract speed.
73	Doors Overspeed Lock Rear Middle	True car speed exceeded 150 fpm with rear middle lock open.	Check the rear middle lock. Adjust the valve manually and check the controller speed matches contract speed.
74	Doors Overspeed Lock Rear Bottom	True car speed exceeded 150 fpm with rear bottom lock open.	Check the rear bottom lock. Adjust the valve manually and check the controller speed matches contract speed.
75	Flood Out of Service	Car is out of service due to flooding.	Check the flood input. If the car should be allowed to run while on flood, set 01-0103 to ON.

Fault Number(s)	Code Description	Fault Description	Resolution

76	Invalid Door	Type of front or rear door input is not assigned.	Make sure all the necessary door signals are programmed.
			Navigate to MAIN MENU | SETUP | SETUP I/O. Depending on the SETUP | DOOR SETUP | DOOR TYPE, the following signals are required.
			• Manual
			  • DPM
			  • TCL
			  • MCL
			  • BCL
			• Automatic
			  • DOL
			  • DCL
			  • PHE
			• Freight/Swing
			  • DOL
			  • DCL
			  • PHE
			  • TCL
			  • MCL
			  • BCL

77-82	MR/CT/COP CPU Stop Switch Enabled	DIP 1A on the MR/CT/COP board is ON.	Turn OFF DIP 1A on the MR, CT, or COP board to enable car to run.
83	Need To Cycle Power to MR	A system configuration parameter was changed. This system must be power cycled.	Recycle power to the controller.

Fault Number(s)	Code Description	Fault Description	Resolution
84	Invalid Numbers Of Floors	Number of floors setting is outside the valid range.	Set number of floors to a value from 2 to 96. Navigate to MAIN MENU l SETUP l FLOORS l NUMBER OF FLOORS.
85	Invalid Contract Speed	Contract speed setting is outside the valid range.	Set contract speed to a value from 10 to 1600. Navigate to MAIN MENU l SETUP l SPEEDS l CONTRACT SPEED.
86	Invalid Inspection Speed	Inspection speed setting is outside the valid range.	Set inspection speed to a value from 0 to 150. Navigate to MAIN MENU l SETUP l SPEEDS l INSPECTION SPEED.
89	Invalid Leveling Speed	Leveling speed setting is outside the valid range.	Set leveling speed to a value from 1 to 20. Navigate to MAIN MENU l SETUP l SPEEDS l LEVELING SPEED.
91	Need To Learn	Car needs to learn the hoist way. The positions of the door zone that are stored in the controller's memory are invalid.	See the HYDRO:EVOLVED User Manual for the procedures on learning the hoistway. Turn ON DIP 5A. Verify the number of floors and the number of door zones. Verify learned floor positions via decimal parameter 24-0096 and up.
96	At Floor No Door Zone	Car is at a learned floor and missing door zone signal.	Adjusted the learned floor position or door zone magnet at the fault position. Verify the learned floor position via parameter and compare with CEDES count.
97	Fire Stop Switch	The Fire Stop switch is currently in the STOP position. The controller is configured with a Fire Stop switch, but the COP-SF3 input is missing.	Turn the Fire Stop switch to the RUN position. If the code does not require a Fire Stop switch, input must be jumped out.

Fault Number(s)	Code Description	Fault Description	Resolution
98	Front Door Jumper On GSW	Gate switch jumpers were detected. Gate switch input must go low to be cleared. For fully manual doors, gate switch is compared to the door position monitor input. If 01-0279 is ON, the gate switch is compared to the door open limit input. If 01-0279 is OFF, the gate switch is compared to the door closed limit input.	Check for possible jumpers on the GSW input. Increase the door jumper timeout setting. Adjust timing of Gate switch contact making and opening. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (F).
99	Front Door Jumper On Locks	Lock jumpers were detected. Lock input must go low to be cleared. For fully automatic doors, if 01-0084 is ON, the locks are compared to the door open limit input. If 01-0084 is OFF, the locks are compared to the door gate switch limit input. For doors with retiring CAM, the locks are compared with the CAM output.	Check for possible jumpers on the door lock inputs. Increase the door jumper timeout setting. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (F).
100	Front Doors Locks Open	Front doors locks are open when doors are closing.	Look at HALL DOOR DATA on the main screen to determine if controller is seeing all door lock signals. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (F). Door locks contacts are not making, clean contacts. Check for 120 VAC at terminals LFT, LFM, and LFB.

Fault Number(s)	Code Description	Fault Description	Resolution
101	Front Doors GSW Open	Front door Gate switch is open when doors are closing.	View the status of the doors to determine if controller is seeing GSW. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (F). Gate switch contacts are not making contact, clean contacts. Check input voltage CT-501 is 24 VDC when active.
102	Doors Front Failed To Open	Front doors failed to open; one or more door signal indicates the doors are not fully open.	Put the car on inspection and command doors fully open. Check what front door signal indicates the door is not open. For example, check the status of GSW, DOL, DCL, DPM, Locks. Verify that the time it takes for the doors to open is less than the timeout specified by MAIN MENU | SETUP | DOOR SETUP | DOOR STUCK TIMER. If not, increase time out.
103	Doors Front Failed To Close	Front doors failed to close; the controller did not see the GSW, DCL, and/or DPM when doors are fully closed.	Verify the Door Close Limit (DCL) input goes off, and GSW and/or Door Position Monitor (DPM), when doors fully close. Verify that the time it takes for the doors to close is less than the timeout specified by MAIN MENU | SETUP | DOOR SETUP | DOOR STUCK TIMER. If not, increase timeout.
104	Doors Front Failed To Nudge	Front doors failed to nudge closed, the controller did not see the GSW, DCL, and/or DPM when attempting to nudge close.	Verify nothing is obstructing the doors to close. Verify photoeye (PHE) input is not stuck. Verify the DCL input goes off, and GSW and/or DPM, when doors fully close. Verify that the time it takes for the doors to nudge is less than the timeout specified by MAIN MENU | SETUP | DOOR SETUP | DOOR NUDGE TIMER.

Fault Number(s)	Code Description	Fault Description	Resolution
105	Doors Front Stalled	The controller was unable to open or close the doors fully after repeated attempts. Front doors are now in a partially opened state.	Verify nothing is obstructing the doors to open/close. Verify the doors can mechanically open and close. Door closed signals should be: GSW, DPM, and DCL. Doors open signals should be DOL. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (F).
106	Doors Front Lost Signals	Door front signals were unexpectedly lost.	Check wiring of door operator. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (F).
107	Doors Rear Jumper On GSW	Front door Gate switch is open when doors are closing. jumpers were detected. GSW input must go low to be cleared.	Check for possible jumpers on rear GSW input. Increase the door jumper timeout setting. Adjust timing of rear Gate switch is open when doors are closing contact making and opening. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (R).
108	Doors Rear Jumper On Locks	Lock jumpers were detected. Lock input must go low to be cleared.	Check for possible jumpers on the rear door lock inputs. Increase the door jumper timeout setting. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (R).
109	Doors Rear Locks Open	Rear doors locks are open when doors are closing.	View the status of the LOCK DATA on the controller to determine if controller is seeing the lock inputs. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (R). LTR, LMR and LBF should be present when the door is closed. Door locks contacts are not making, clean contacts.

Fault Number(s)	Code Description	Fault Description	Resolution
110	Doors Rear GSW Open	Rear door Gate switch is open when doors are closing.	View the status of the LOCK DATA on the controller to determine if controller is seeing the lock inputs. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (R). LTR, LMR and LBF should be present when the door is closed. Door locks contacts are not making, clean contacts.
111	Doors Rear Failed To Open	Rear doors failed to open. One or more door signal indicates the door is not fully open.	Put the car on inspection and command doors fully open. Check what rear door signal indicates the door is not open. For example, check the status of GSW, DOL, DCL, DPM, Locks. Verify that the time it takes for the doors to open is less than the timeout specified by MAIN MENU | SETUP | DOOR SETUP | DOOR STUCK TIMER.
112	Doors Rear Failed To Close	Rear doors failed to close. The controller did not see the GSW, DCL, and/or DPM signals when doors are fully closed.	Verify the DCL, GSW, and/or DPM signals are active when doors fully close. Verify that the time it takes for the doors to close is less than the timeout specified by MAIN MENU | SETUP | DOOR SETUP | DOOR STUCK TIMER.
113	Doors Rear Failed To Nudge	Rear doors failed to nudge closed. The controller did not see GSW, DCL, and/or DPM when attempting to nudge close.	Verify nothing is obstructing the doors to close. Verify PHE input is not stuck. Verify the DCL, GSW, and/or DPM signals are active when doors fully close. Verify that the time it takes for the doors to nudge is less than the timeout specified by MAIN MENU | SETUP | DOOR SETUP | DOOR NUDGE TIMER.
114	Doors Rear Stalled	The controller was unable to open or close the doors fully after repeated attempts. Rear doors are now in a partially opened state.	Verify nothing is obstructing the doors to open/close. Verify the doors can mechanically open and close. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (R).

Fault Number(s)	Code Description	Fault Description	Resolution
115	Doors Rear Lost Signal	Door rear signals were unexpectedly lost.	Check wiring of door operator. Door symbols and signals can be monitored on MAIN MENU | STATUS | DOOR STATUS (R).
116	Max Run Time	Car made a single run that exceeded the max run timer.	Adjust the speed or slowdown of the car. Increase the max runtime setting by MAIN MENU | SETUP | MISC | MAX RUN TIME.
117	EB3 or EB4 Bypass Relay Is Stuck On	EB3 or EB4 relay is stuck in the ON position.	Verify the EB3 or EB4 relay is tightly seated on its connecter on the MR board. Check the relay for welded contacts. All the relays are the same. Either swap out a relay from another MR board (if available) or swap out EB1 or EB2 with EB3 or EB4 to see if the fault is resolved.
118-123	MR/CT/COP A OR B Processor Parameter Edit Buffer Overflowed	Processors: MRA, MRB, CTA, CTB, COPA, COPB are overflowed by the request of parameter changes.	Reduce rate of parameter edit requests. Contact Smartrise support.
124-135	MR/CT/COP Processor Was Reported By Another MR/CT/COP Processor To Be Offline	MR/CT/COP A or B processor was reported offline by other MR/CT/COP A or B processor.	Check wiring of communication lines. Check termination jumpers on the car network CN1+/-. Verify DIP settings match prints. Check for stalled HB (Heartbeat) LEDS on the MR/CT/COP board. If any of the MR/CT/COP HB LED are stalled, recycle power to the board.
136-141	MR/CT/COP Board Reset	MR/CT/COP processor was reset due to power loss or by user.	Wait for the controller to initialize. Verify the event can be accounted for either the controller being power cycled or pressing the reset button.
142-147	MR/CT/COP WD Reset	MR/CT/COP processor was reset by watchdog.	Check 24 VDC buses feeding the reporting board.

Fault Number(s)	Code Description	Fault Description	Resolution
148-153	MR/CT/COP Board Reset	MR/CT/COP processor was reset due to dip in board voltage.	Verify the controller is not being initialized by power cycle or pressing the reset button. Verify 24 VDC bus. If not the above two conditions, call Smartrise support.
154	Safety String SFH	SFH input in the safety string is open. MR– SFH input is missing on the MR board.	Verify there is a ZoneH In input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 120 VAC on the SFH terminal.
155	Safety String SFM	SFM input in the safety string is open. MR-SFM input is missing on the MR board.	Verify there is a ZoneM input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 120 VAC on the SFM terminal.
156	Safety String Pit Switch	Pit switch in the safety string is open. MR-PIT input is missing on the MR board.	Check wiring of the Pit switch. Verify there is a SF Pit input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 120 VAC on the PIT terminal.
157	Safety String BUF Switch	Buffer switch in the safety string is open. MR-BUF input is missing on the MR board.	Check wiring of the Buffer switch. Verify there is a SF Buffer input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 120 VAC on the BUF terminal.
158	Safety String TFL Switch	Top Final Limit switch in the safety string is open. MR-TFL input is missing on the MR board.	Check wiring of the Top Final Limit switch. Verify there is a Top Final Limit input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 120 VAC on the TFL terminal.
159	Safety String BFL Switch	Bottom Final Limit switch in the safety string is open. MR-BFL input is missing on the MR board.	Check wiring of the Bottom Final Limit switch. Verify there is a Bottom Final Limit input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 120 VAC on the BFL terminal.

Fault Number(s)	Code Description	Fault Description	Resolution
160	Safety String CT Stop Switch	CT Stop switch in the safety string is open. CT-SF1 input is missing on the CT board.	Check wiring of the CT Stop switch. Verify there is a Cartop Switch input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 24 VDC on the SF1 terminal on the CT board. Check input status menu for active input.
161	Safety String Escape Hatch	Escape Hatch contact in the safety string is open. CT-SF2 input is missing on the CT board.	Check wiring of the Escape Hatch contact. Verify there is an Escape Hatch input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 24 VDC on the SF2 terminal on the CT board. Check input status menu for active input.
162	Safety String Car Safeties	Car Safeties in the safety string is open. CT-SF3 input is missing on the CT board.	Check wiring of the car safeties. Verify there is a Car Safety input signal under MAIN MENU | STATUS | INPUTS | SAFETY ZONES. Verify 24 VDC on the SF3 terminal on the CT board. Check input status menu for active input.
163	LFT Open	The top front hall door lock is clipped or open during car operation.	Check wiring of top front locks. Check contacts of top front lock making sure they are making contact when the hall doors are closed. Verify there is a Top Lock (F) input signal under MAIN MENU | STATUS | INPUTS | LOCKS. Verify 120 VAC on LFT terminal on the MR board.
164	LFM Open	The middle front hall door lock is clipped or open during car operation.	Check wiring of middle front locks. Check contacts of middle front lock making sure they are making contact when hall doors are closed. Verify there is a Middle Lock (F) input signal under MAIN MENU | STATUS | INPUTS | LOCKS. Verify 120 VAC on LFM terminal on the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
165	LFB Open	The bottom front hall door lock is clipped or open during car operation.	Check wiring of bottom front locks. Check contacts of bottom front lock make sure they are making contact when the hall doors are closed. Verify there is a Bottom Lock (F) input signal under MAIN MENU | STATUS | INPUTS | LOCKS. Verify 120 VAC on LFB terminal on the MR board.
166	LRT Open	The top rear hall door lock is clipped or open during car operation.	Check wiring of top rear locks. Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a Top Lock (R) input signal under MAIN MENU | STATUS | INPUTS | LOCKS. Verify 120 VAC on LRT terminal on the MR board.
167	LRM Open	The middle rear hall door lock is clipped or open during car operation.	Check wiring of middle rear locks. Check contacts of middle rear lock making sure they are making contact when the hall doors are closed. Verify there is a Middle Lock (R) input signal under MAIN MENU | STATUS | INPUTS | LOCKS. Verify 120 VAC on LRM terminal on the MR board.
168	LRB Open	The bottom rear hall door lock is clipped or open during car operation.	Check wiring of bottom rear locks. Check contacts of bottom rear lock making sure they are making contact when hall doors are closed. Verify there is a Bottom Lock (R) input signal under MAIN MENU | STATUS | INPUTS | LOCKS. Verify 120 VAC on LRB terminal on the MR board.
169	GSW Front Open	The controller is not seeing the front Gate switch input when doors are fully closed.	Front Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check wiring of the front GSW input. Check contacts of the front Gate switch. Verify there is a Gateswitch (F) input signal under MAIN MENU | STATUS | INPUTS | DOORS.

Fault Number(s)	Code Description	Fault Description	Resolution
170	GSW Rear Open	The controller is not seeing the rear Gate switch input when doors are fully closed.	Rear Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check the wiring of the rear GSW input. Check contact of the rear Gate switch. Verify there is a Gateswitch (R) input signal under MAIN MENU | STATUS | INPUTS | DOORS.
171	FRAM Defaulting	New FRAM chip detected and formatting is in progress.	Contact Smartrise support if fault does not clear automatically.
172	FRAM Timeout	FRAM read or write request was unsuccessful.	Contact Smartrise support.
173	FRAM Default Fail	Attempt to format FRAM chip has failed.	Contact Smartrise support.
174	MACHINE ROOM 120VAC LOSS	The Machine Room 120 VAC supply is missing.	Check the wiring going into the MR board on the 120V input. Check the N terminal connection. Measure 120V terminal to the N terminal on the MR board, 120 VAC should be present.
175	Motion Inv. Cmd	A motion control error has occurred.	Contact Smartrise support.
176	Motion Start Sequence Aborted Door State	The motion start sequence was aborted due to unsafe door state.	Check the wiring of the door contacts. Make sure all door signals are present when doors are fully closed. Increase door check time. Navigate to MAIN MENU | SETUP | DOOR SETUP.

Fault Number(s)	Code Description	Fault Description	Resolution
188	Motion Stop Sequence Aborted Preflight Check	The motion stop sequence was aborted due to failing to complete the preflight check within a 10 second window. **NOTE**: The system runs a preflight check of all safety connections/relays/inputs/outputs prior to the car leaving a landing.	Check the wiring and termination on the CN1+/- and CN2 +/- networks.
191	EB2 Relay Was Dropped	The EB2 relay was dropped when should be picked.	Locate and press and hold the EBRK RST button at the bottom of the MR board to reset the fault.
192	EB2 Relay Is Stuck On/Off	The EB2 relay is stuck on/off.	Verify the EB2 relay is tightly seated on its connector. Switch the EB2 relay with another relay to diagnose if the relay has failed.
215	CPLD Startup	CPLD reporting system is in a startup state.	N/A
217	CPLD Governor	The CPLD detected a loss of power on the120 VAC input on the MR board.	If this fault occurred while the car was stopped or at low speed, it could be a problem with the120V supply wiring. Press the EBRK RST button to clear.
218	CPLD Redundancy	CPLD reporting redundancy fault. See Fault 11 through Fault 49 for more information.	Verify the MR board has its RDC jumper on. If the RDC jumper is on, replace the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
219	CPLD Communication Loss	CPLD reporting communication loss of CN2 network. CPLD communicates one way, COP -> CT -> MR. when CPLD comm loss occurs, a flashing CPLD fault LED will be present on the board instead of a solid LED.	Check for miswiring on the CN2 network. If the communication loss is from COP to CT, then the CT CPLD fault LED flashes and the MR CPLD fault LED is solid. Measure the voltage on CN2+ and CN2- on the CT board. Verify the voltage reading is: • CN2+ to REF around 2.88 • CN2- to REF around 1.95 If the communication loss is from CT to MR, then the MR CPLD fault LED flashes. Measure the voltage on CN2+ and CN2- on the MR board. Verify the voltage reading is: • CN2+ to REF around 2.88 • CN2- to REF around 1.95 Check the CT/COP toggle switch on the CT/COP boards, make sure they are in the correct state for the board that they are for. Make sure DIP 1B is set to OFF for the CT board and ON for the COP board.
220	CPLD Non-Bypass	CPLD reporting loss of a non-bypass input.	Check the MR and CT board safety inputs.

Fault Number(s)	Code Description	Fault Description	Resolution
221	CPLD In-Car Stop Switch	The In-Car Stop switch is in the Stop position. The In-Car Stop switch input on the COP board has no power or the switch is wired incorrectly (reversed). The In-Car Stop switch is not present on car but inputs have not been jumped out.	Turn the In-Car Stop switch to the RUN position. Input (COP-SF2) on the COP board must be powered for the car to run. Verify that the In-car Stop switch is wired to the input. Verify the input has power when the switch is in the RUN position and that power is removed in the STOP position. If the car does not have an In-Car Stop switch, then the COP-SF2 input must be jumped to the C24 bus. Note: This fault will also occur if the CN2+/- connection from the COP to CT is disconnected. This can occur if the wrong Ethernet cable is used.
222	CPLD Inspection	CPLD reporting invalid inspection mode.	An invalid set of inspection switches are active.
223	CPLD SFH Relay	CPLD reporting loss of SFH input.	Check input SFH on the MR board. Input needs to be on.
225	CPLD Access	CPLD reporting invalid access switch and lock combination.	Check to make sure that the top locks are the only locks open when on top access. Check to make sure that the bottom locks are the only locks open when on bottom access.
226	CPLD Hall Locks	CPLD reporting hall locks are open.	Check wiring of hall locks. Check contacts of hall locks make sure they are making contact when the hall doors are closed. Make sure all hall lock inputs are on when closed.
227	CPLD Doors	CPLD reporting Gate switches are open.	Verify the GSW inputs are active when the doors are fully closed.
228	CPLD Bypass Switch	CPLD reporting a Bypass switch is active.	Turn off the Bypass switches if not using CT inspection or IC inspection.
229	CPLD Preflight Check	CPLD reporting preflight check failure.	Verify the wiring of all safety inputs. Verify all safety relays are seated correctly in their connectors.

Fault Number(s)	Code Description	Fault Description	Resolution
230-233	Riser Offline (1-4)	Riser board X is reporting to be offline after being active.	Check Heartbeat LED on the Riser board reporting the fault. Check Group network connections to the Riser board. Check communication status by navigating to MAIN MENU | DEBUG | RISER BOARD STATUS and scrolling to the Riser board that is reported offline. If changes to Riser board addressing were made after startup, the cars reporting this fault must be power cycled to clear this error.
234	Door Zone Stuck	Door zone front or rear input stuck high and over six inches from the closest learned floor position.	Check and verify the DZ input (CT-503/504) goes on and off while crossing the door zone. Check for obstruction of the DZ sensor. Verify the hoistway learn completed successfully.
235	Position Limit	Car moving outside the mode defined position limit.	To bypass the limit, navigate to MAIN MENU l SETUP l MISC l BYPASS TERM LIMITS l YES.
236	Invalid Manual Run	Attempting a manual run outside specified current position limits.	To bypass the limit, navigate to MAIN MENU l SETUP l MISC l BYPASS TERM LIMITS l YES.
245	SFM Relay Is Stuck ON/OFF	The SFM relay is stuck on/off.	Verify the SFM relay is tightly seated on its connector on the MR board. Replace the relay to diagnose if the relay has failed.
246	Car Overloaded	Overload input is high, indicating the car is overloaded.	Remove weight from the elevator until input is low. Verify the calibration of the load sensors.
247-249	MR/CT/COP Preflight Check	MR, CT, or COP is indicating a preflight check failure.	Verify wiring of all safety connections/relays/inputs/outputs on the preflight requirement.
250-252	MRB/ CTA/CTB Parameter Sync	MRB, CTA, or CTB indicating the system is synching up to the set parameters.	N/A

Fault Number(s)	Code Description	Fault Description	Resolution
254	Regen Unit Faulted	Regen unit reporting a fault state.	Refer to the manufacturer's Regen for fault indication. See the manufacturer's Regen manual for troubleshooting. Verify wiring of the regen fault input. Verify wiring of the regen reset output.
255	Construction Overspeed	The car speed has exceeded 125% of the max inspection speed (150 fpm).	The encoder speed has exceeded the speed command by over 25 fpm. Disable overspeed (01-0073) and verify motor speed.
258	Invalid DIP Switch B2 Setting	The rear door DIP switches and parameter do not match.	If DIP 2B is ON for the MR, CT, and COP boards, verify the rear doors are enabled. If DIP 2B is OFF for all three boards, verify the rear doors are disabled. SETUP | DOOR SETUP | REAR DOORS.
259	Invalid DIP Switch B3 Setting	The enable landing inspection DIP switch and parameter do not match.	If DIP 3B is ON for the machine room, enable parameter 01-0038 to ON. If DIP 3B is OFF for the machine room, disable parameter 01-0038 to OFF.
260	Invalid DIP Switch B4 Setting	The enable pit inspection DIP switch and parameter do not match.	If DIP 4B is ON for the machine room, verify pit inspection is enabled. If DIP 4B is turned OFF on the machine room, verify pit inspection is disabled.
262	Invalid DIP Switch A6 Setting	Construction mode is required when the Motor Learn DIP 6A is on.	Move to construction mode if doing a motor learn or turn DIP 6A off.
263	CT Insp Reqs IC	Both IC and CT Inspection switches are required for CT inspection operation.	Enable the IC inspection if enabling CT inspection. If IC inspection is not required to enable CT inspection, turn OFF parameter 01-0075.

Fault Number(s)	Code Description	Fault Description	Resolution
269-283	EXP Comm X	Expansion board is reported offline after being active.	Expansion comm 1 - Expansion boards 1-8. Expansion comm 2 - Expansion boards 9-16. Expansion comm 3 - Expansion boards 17-24. Expansion comm 4 - Expansion boards 25-32. Expansion comm 5 - Expansion boards 33-40. Expansion comm 6 - Expansion boards 41-48. Expansion comm 7 - Expansion boards 49-56. Expansion comm 8 - Expansion boards 57-64. Expansion comm 9 - Expansion boards 65-72. Expansion comm 10 - Expansion boards 73-80. Expansion comm 11 - Expansion boards 81-88. Expansion comm 12 - Expansion boards 89-96. Expansion comm 13 - Expansion boards 97-104. Expansion comm 14 - Expansion boards 105-112. Expansion comm 15 - Expansion boards 113-120. Check Heartbeat LED on the Expansion boards and verify wiring and DIP settings.
284-298	Expansion Board DIP Switch Setting	Two or more Expansion boards have the same DIP switch settings.	Make sure none of the DIP switch settings on the master Expansion boards are identical. Match the Expansion boards DIP switch settings with the prints accordingly. See faults EXP Comm X for group descriptions.
299	Invalid Hall Masks	There is overlap between hall call, medical, and swing masks.	Navigate to SETUP | GROUP SETUP and check the settings for HALL CALL MASK, SWING CALL MASK, and HALL MEDICAL MASK. Make sure that no more than one of these pages have the same function ID ([F#]) set to ON.
300	Out of Service Limit	Car has been taken out of service. Triggering source is undefined.	Reset fault by putting car on inspection mode. Check the fault log for the repeating fault that caused the OOS.

Fault Number(s)	Code Description	Fault Description	Resolution
301	Duplicate Group ID	Two or more cars in the group have the same car ID.	Verify that the car IDs are not identical. If the IDs are identical, change accordingly to car labels by navigating to MAIN MENU l GROUP SETUP l GROUP CAR INDEX.
302	Rescue Operation Start Sequence	After moving to rescue operation, the car waits a minimum of 2 seconds before beginning rescue.	N/A
303	Rescue Operation In Door Zone	The car has arrived at the nearest opening, opened its doors, and gone out of service.	N/A
304	Rescue Operation Invalid	Automatic: No valid recall was found. Manual: Invalid run state.	Turn off automatic rescue and perform a manual rescue.
305	Machine Room Safety	The MR safety input (SFM) was lost.	Check wiring to the MR-SFM input. Verify safety contact is closing and opening in the correct state.

Fault Number(s)	Code Description	Fault Description	Resolution
306-333	CEDES1 Landing System Errors	CEDES 1 or CEDES 2 reporting error: 306 – CEDES1 OFFLINE 307 – CEDES1 READ FAIL 308 – CEDES1 ALIGN CLOSE 309 – CEDES1 ALIGN FAR 310 – CEDES1 ALIGN LEFT 311 – CEDES1 ALIGN RIGHT 312 – CEDES1 INTERNAL 313 – CEDES1 COMM 314 – CEDES1 CROSS1 POSS 315 – CEDES1 CROSS1 VEL 316 – CEDES1 CROSS1 BOTH 317 – CEDES1 CROSS2 POS 318 – CEDES1 CROSS2 VEL 319 – CEDES1 CROSS2 BOTH 320 – CEDES2 OFFLINE 321 – CEDES2 READ FAIL 322 – CEDES2 ALIGN CLOSE 323 – CEDES2 ALIGN FAR 324 – CEDES2 ALIGN LEFT 325 – CEDES2 ALIGN RIGHT 326 – CEDES2 INTERNAL 327 – CEDES2 COMM 328 – CEDES2 CROSS1 POS 329 – CEDES2 CROSS1 VEL 330 – CEDES2 CROSS1 BOTH 331 – CEDES2 CROSS2_POS 332 – CEDES2 CROSS2 VEL 333 – CEDES2 CROSS2 BOTH	Check the camera wiring from the camera to the CT board CAN port. Check and clean the tape. Run the elevator through the hoistway and align the tape with the camera accordingly. Check camera installation guide for alignment instructions. Replace camera.

Fault Number(s)	Code Description	Fault Description	Resolution
334	Emergency Power Out Of Service	Emergency Power operation is active but the generator is not up to speed, or the car is not selected.	Building power needs to be returned to be back to normal operation. If this fault is asserted on all group cars, then the UP TO SPEED input may be inactive.
335	Invalid Parking	Parking floor is set to floor with no openings.	Set parking floor to a valid opening. Navigate to SETUP | MISCELLANEOUS | PARKING | PARKING FLOOR.
336	Invalid Fire Main	Main fire recall floor and opening setting are invalid.	Set main recall floor to valid opening. Navigate to SETUP | FIRE | MAIN RECALL.
337	Invalid Fire Alternate	Alternate fire recall floor and opening setting are invalid.	Set alternate recall floor to a valid opening. Navigate to SETUP | FIRE | ALT RECALL.
338-340	CPLD Offline MR/CT/COP	Communication with the MR/CT/COP CPLD was lost.	Contact Smartrise support.
341	Datagram Expired	Car network datagram expired.	N/A
654	Invalid Land Off	The group landing offset setting is outside valid range.	The sum of the landing offset and the car's number of floors should be less than the max support landings. Set parameter 01-0225 to support the number of floors.
655	Payment Passcode	The passcode required for normal operation is not entered.	Contact Smartrise Engineering customer service for payment passcode. After receiving payment passcode navigate to MAIN MENU l SETUP l MISC l PAYMENT PASSCODE. Verify the job ID is correct in the ABOUT menu or under parameter 24-0195. Verify the Car index number is correct. SETUP | GROUP SETUP | GROUP CAR INDEX.
656	Battery Fault	The BLD reported 3 or more battery faults within 3 days.	Check backup battery for fault indication. Measure the voltage on the batteries of the Battery Lowering Device and toggle DIP 1A.

Fault Number(s)	Code Description	Fault Description	Resolution
663-676	CEDES3 Landing System Errors	ETSL CEDES channel 2 reporting error: 663 – CEDES3 OFFLINE 664 – CEDES3 READ_FAIL 665 – CEDES3 ALIGN_CLOSE 666 – CEDES3 ALIGN_FAR 667 – CEDES3 ALIGN_LEFT 668 – CEDES3 ALIGN_RIGHT 669 – CEDES3 INTERNAL 670 – CEDES3 COMM 671 – CEDES3 CROSS1_POSS 672 – CEDES3 CROSS1_VEL 673 – CEDES3 CROSS1_BOTH 674 – CEDES3 CROSS2_POS 675 – CEDES3 CROSS2_VEL 676 – CEDES3 CROSS2_BOTH	Check camera wiring from camera to COP board CAN port. Check and clean the tape. Run the elevator through the hoistway and align the tape with the camera accordingly.
713	Fault Input	The discrete fault input has been high for 200 ms.	Check the IO configuration for the fault input location. Check the wiring of the fault input.
715	FRAM Data Corruption	FRAM data redundancy check has failed, and data was not recovered.	Contact Smartrise support.
716	Max Runs Per Minute	Car exceeded the max number of runs per minute.	Check that car is not repeatedly releveling for a floor.
717	Need To Cycle Pwr Ct	A system configuration parameter was changed. The system must be power cycled.	Cycle power to the system.
718	Need To Cycle Pwr Cop	A system configuration parameter was changed. The system must be power cycled.	Cycle power to the system.
719	Front TCL Open	Front top closed interlock is open.	Check wiring of TCL, GSW and DZ signals. This fault is flagged when outside of DZ and TCL is open. It is also flagged when GSW is closed and TCL is open.

Fault Number(s)	Code Description	Fault Description	Resolution
720	Front MCL Open	Front middle closed interlock is open.	Check wiring of MCL, GSW and DZ signals. This fault is flagged when outside of DZ and MCL is open. It is also flagged when GSW is closed and MCL is open.
721	Front BCL Open	Front bottom closed interlock is open.	Check wiring of BCL, GSW and DZ signals. This fault is flagged when outside of DZ and BCL is open. It is also flagged when GSW is closed and BCL is open.
722	Rear TCL Open	Rear top closed interlock is open.	Check wiring of TCL, GSW and DZ signals. This fault is flagged when outside of DZ and TCL is open. It is also flagged when GSW is closed and TCL is open.
723	Rear MCL Open	Rear middle closed interlock is open.	Check wiring of MCL, GSW and DZ signals. This fault is flagged when outside of DZ and MCL is open. It is also flagged when GSW is closed and MCL is open.
724	Rear BCL Open	Rear bottom closed interlock is open.	Check wiring of BCL, GSW and DZ signals. This fault is flagged when outside of DZ and BCL is open. It is also flagged when GSW is closed and BCL is open.
725	Invalid EPWR Speed	Emergency power speed setting is outside the valid range.	Set the emergency power speed to a value from 10 to the configured contract speed by navigating to SETUP | SPEEDS | EPOWER SPEED.
726	Invalid Access Speed	Access speed setting is outside the valid range.	Set access speed to a value from 0 to 150.
727	Unintended Lock and GSW	A Gate switch and lock are open and the car is more than two and a half inches from the nearest learned floor position. The movement direction agrees with the command.	Check Gate switch contact wiring and safety contacts.
728	DPM Front Open	Front door position monitor is open. CT-DPM-F input is missing on the CT board.	Check door wiring and safety contacts. Check input DPM-F on CT board.

Fault Number(s)	Code Description	Fault Description	Resolution
729	DPM Rear Open	Rear door position monitor is open. CT-DPM-R input is missing on the CT board.	Check door wiring and safety contacts. Check input DPM-R on CT board.
730-732	CPLD MR/CT/COP Startup	CPLD reporting MR/CT/COP board is in a startup state.	If this fault is asserted for longer than 10 seconds, check the board's supply voltage.
734 -735	CPLD CT/COP Communication Loss	CPLD reporting communication loss of CN2 network. CPLD communicates one way, COP -> CT -> MR. when CPLD comm loss occurs, a flashing CPLD fault LED will be present on the board instead of a solid LED.	Check for miswiring on the CN2 network. If the communication loss is from COP to CT, then the CT CPLD fault LED flashes and the MR CPLD fault LED is solid. Measure the voltage on CN2+ and CN2- on the CT board. Verify the voltage reading is: • CN2+ to REF around 2.88 • CN2- to REF around 1.95 If the communication loss is from CT to MR, then the MR CPLD fault LED flashes. Measure the voltage on CN2+ and CN2- on the MR board. Verify the voltage reading is: • CN2+ to REF around 2.88 • CN2- to REF around 1.95 Check the CT/COP toggle switch on the CT/COP boards, make sure they are in the correct state for the board that they are for. Make sure DIP 1B is set to OFF for the CT board and ON for the COP board.
736	CPLD 120 VAC	CPLD reporting loss of 120 VAC supply.	Check incoming power.
737	CPLD Governor	CPLD reporting a loss of power of the MR board.	Check the wiring going into the MR board on the 120V input. Press the EBRK RST button to clear.

Fault Number(s)	Code Description	Fault Description	Resolution
738	CPLD Car Door Bypass	CPLD reporting Car Door Bypass is in the ON position. Attempting to bypass car door(s) when car is not on correct mode of Inspection.	Car Door Bypass switch must be in the OFF position when not on CT or IC Inspection. If attempting to bypass car door(s), make sure you are on CT Inspection or IC Inspection.
739	CPLD Hall Door Bypass	CPLD reporting Hall Door Bypass is in the ON position. Attempting to bypass locks when car is not on correct mode of Inspection.	Hall Lock Bypass switch must be in the OFF position when not on CT or IC Inspection. If attempting to bypass hall doors, make sure you are on CT Inspection or IC Inspection.
740	CPLD SFM Relay	CPLD reporting loss of SFM input.	Check input SFM on the MR board. Input needs to be on.
741	CPLD SFH Relay	CPLD reporting loss of SFH input.	Check input SFH on the MR board. Input needs to be on.
742	CPLD PIT Switch	CPLD reporting PIT switch is open. MR-PIT input is missing on the MR board.	Check wiring of the PIT switch. Verify there is a MR-PIT input signal. Verify 120 VAC on the PIT terminal.
743	CPLD BUF Switch	CPLD reporting Buffer switch is open. MR-BUF input is missing on the MR board.	Check wiring of the Buffer switch. Verify there is a MR-BUF input signal. Verify 120 VAC on the BUF terminal.
744	CPLD TFL Switch	CPLD reporting Top Final Limit switch is open. MR-TFL input is missing on the MR board.	Check wiring of the Top Final Limit switch. Verify there is a MR-TFL input signal. Verify 120 VAC on the TFL terminal.
745	CPLD BFL Switch	CPLD reporting Bottom Final Limit switch is open. MR-BFL input is missing on the MR board.	Check wiring of the Bottom Final Limit switch. Verify there is a MR-BFL input signal. Verify 120 VAC on the BFL terminal.

Fault Number(s)	Code Description	Fault Description	Resolution
746	CPLD CT Stop Switch	CPLD reporting CT Stop switch is open. CT-SF1 input is missing on the CT board.	Check wiring of the CT Stop switch. Verify there is a CT-SF1 input signal. Verify 24 VDC on the SF1 terminal on the CT board. Check input status menu for active input.
747	CPLD Escape Hatch	CPLD reporting Escape Hatch contact is open. CT-SF2 input is missing on the CT board.	Check wiring of the Escape Hatch contact. Verify there is a CT-SF2 input signal. Verify 24 VDC on the SF2 terminal on the CT board. Check input status menu for active input.
748	CPLD Car Safeties	CPLD reporting CT safeties are open. CT-SF3 input is missing on the CT board.	Check wiring of the car safeties. Verify there is a CT-SF3 input signal. Verify 24 VDC on the SF3 terminal on the CT board. Check input status menu for active input.
749	CPLD In-Car Stop Switch	CPLD reporting the In-Car Stop switch is in the Stop position. The In-Car Stop switch input on the COP board has no power or the switch is wired incorrectly (reversed). The In-Car Stop switch is not present on car but inputs have not been jumped out.	Turn the In-Car Stop switch to the RUN position. Input (COP-SF2) on the COP board must be powered for the car to run. Verify that the In-car Stop switch is wired to the input. Verify the input has power when the switch is in the RUN position and that power is removed in the STOP position. If the car does not have an In-Car Stop switch, then the COP-SF2 input must be jumped to the C24 bus.
750	CPLD Fire Stop Switch	CPLD reporting the Fire Stop switch is currently in the STOP position. The controller is configured with a Fire Stop switch, but the COP-SF3 input is missing.	Turn the Fire Stop switch to the RUN position. If the code does not require a Fire Stop switch, input must be jumped out.
751	CPLD Inspection	CPLD reporting invalid inspection mode.	An invalid set of inspection switches are active.

Fault Number(s)	Code Description	Fault Description	Resolution
752	CPLD Access	CPLD reporting invalid access switch and lock combination.	Check to make sure that the top locks are the only locks open when on top access. Check to make sure that the bottom locks are the only locks open when on bottom access.
753	CPLD LFT	CPLD reporting the top front hall door lock is clipped or open during car operation.	Check wiring of top front locks. Check contacts of top front lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LFT input signal. Verify 120 VAC on LFT terminal on the MR board.
754	CPLD LFM	CPLD reporting the middle front hall door lock is clipped or open during car operation.	Check wiring of middle front locks. Check contacts of middle front lock making sure they are making contact when hall doors are closed. Verify there is a MR-LFM input signal. Verify 120 VAC on LFM terminal on the MR board.
755	CPLD LFB	CPLD reporting the bottom front hall door lock is clipped or open during car operation.	Check wiring of bottom front locks. Check contacts of bottom front lock make sure they are making contact when the hall doors are closed. Verify there is a MR-LFB input signal. Verify 120 VAC on LFB terminal on the MR board.
756	CPLD LRT	CPLD reporting the top rear hall door lock is clipped or open during car operation.	Check wiring of top rear locks. Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRT input signal. Verify 120 VAC on LRT terminal on the MR board.
757	CPLD LRM	CPLD reporting the middle rear hall door lock is clipped or open during car operation.	Check wiring of middle rear locks. Check contacts of middle rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRM input signal. Verify 120 VAC on LRM terminal on the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
758	CPLD LRB	CPLD reporting the bottom rear hall door lock is clipped or open during car operation.	Check wiring of bottom rear locks. Check contacts of bottom rear lock making sure they are making contact when hall doors are closed. Verify there is a MR-LRB input signal. Verify 120 VAC on LRB terminal on the MR board.
759	CPLD GSWF	CPLD reporting the controller is not seeing the front Gate switch input when doors are fully closed.	Front Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check wiring of the front GSW input. Check contacts of the front Gate switch.
760	CPLD GSWR	CPLD reporting the controller is not seeing the rear Gate switch input when doors are fully closed.	Rear Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check the wiring of the rear GSW input. Check contact of the rear Gate switch.
761	Preflight Pit Inspection	CPLD reporting pit inspection failed during preflight operation.	Verify wiring of all safety connections/relays/inputs/outputs on the preflight requirement. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
762	Preflight Landing Insp	CPLD reporting landing inspection failed during preflight operation.	Verify wiring of all safety connections/relays/inputs/outputs on the preflight requirement. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
763	Preflight BFL Switch	CPLD reporting Bottom Final Limit switch is open during preflight operation. MR-BFL input is missing on the MR board.	Check wiring of the Bottom Final Limit. Verify there is a MR-BFL input signal. Verify 120 VAC on the BFL terminal. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
764	Preflight TFL Switch	CPLD reporting Top Final Limit switch is open during preflight operation. MR-TFL input is missing on the MR board.	Check wiring of the Top Final Limit. Verify there is a MR-TFL input signal. Verify 120 VAC on the TFL terminal. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
765	Preflight BUF Switch	CPLD reporting Buffer switch is open during preflight operation. MR-BUF input is missing on the MR board.	Check wiring of the Buffer switch. Verify there is a MR-BUF input signal. Verify 120 VAC on the BUF terminal. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
766	Preflight PIT Switch	CPLD reporting PIT switch is open during preflight operation. MR-PIT input is missing on the MR board.	Check wiring of the PIT switch. Verify there is a MR-PIT input signal. Verify 120 VAC on the PIT terminal. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
768	Preflight SFH	CPLD reporting SFH failed during preflight operation.	Check input SFH on the MR board. Input needs to be on. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
769	Preflight SFM	CPLD reporting SFM failed during preflight operation.	Check input SFM on the MR board. Input needs to be on. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
770	Preflight LFT	CPLD reporting the top front hall door lock is clipped or open during preflight operation.	Check wiring of top front locks. Check contacts of top front lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LFT input signal. Verify 120 VAC on LFT terminal on the MR board. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
771	Preflight LFM	CPLD reporting the middle front hall door lock is clipped or open during preflight operation.	Check wiring of middle front locks. Check contacts of middle front lock making sure they are making contact when hall doors are closed. Verify there is a MR-LFM input signal. Verify 120 VAC on LFM terminal on the MR board. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
772	Preflight LFB	CPLD reporting the bottom front hall door lock is clipped or open during preflight operation.	Check wiring of bottom front locks. Check contacts of bottom front lock make sure they are making contact when the hall doors are closed. Verify there is a MR-LFB input signal. Verify 120 VAC on LFB terminal on the MR board. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
773	Preflight LRT	CPLD reporting the top rear hall door lock is clipped or open during preflight operation.	Check wiring of top rear locks. Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRT input signal. Verify 120 VAC on LRT terminal on the MR board. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
774	Preflight LRM	CPLD reporting the middle rear hall door lock is clipped or open during preflight operation.	Check wiring of middle rear locks. Check contacts of middle rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRM input signal. Verify 120 VAC on LRM terminal on the MR board. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.

Fault Number(s)	Code Description	Fault Description	Resolution
775	Preflight LRB	CPLD reporting the bottom rear hall door lock is clipped or open during preflight operation.	Check wiring of bottom rear locks. Check contacts of bottom rear lock making sure they are making contact when hall doors are closed. Verify there is a MR-LRB input signal. Verify 120 VAC on LRB terminal on the MR board. Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
776	Preflight Hall Door Bypass	CPLD reporting Hall Door Bypass is in the ON position during preflight operation. Attempting to bypass locks when car is not on correct mode of Inspection.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
777	Preflight Car Door Bypass	CPLD reporting Car Door Bypass is in the ON position during preflight operation. Attempting to bypass car door(s) when car is not on correct mode of Inspection.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
778	Preflight MR Inspection	CPLD reporting MR fails inspection during preflight operation. MR-MM input is missing on the MR board.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the MR board.
787	CPLD MR Unknown	CPLD reporting MR board is in an unknown state.	Recycle power to the MR board. If an unknown state report still exists, replace the MR board.
788	Preflight CT Stop Switch	CPLD reporting CT Stop switch failed during preflight operation. CT-SF1 input is missing on the CT board.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.

Fault Number(s)	Code Description	Fault Description	Resolution
789	Preflight Esc Hatch	CPLD reporting Escape Hatch contact failed during preflight operation. CT-SF2 input is missing on the CT board.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.
790	Preflight Car Safeties	CPLD reporting car safeties failed during preflight operation. CT-SF3 input is missing on the CT board.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.
791	Preflight CT Inspection	CPLD reporting CT inspection failed during preflight operation. CT-SF4 input is missing on the CT board.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.
792	Preflight GSWF	CPLD reporting front Gate switch failed during preflight operation.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.
793	Preflight GSWR	CPLD reporting rear Gate switch failed during preflight operation.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.
794	Preflight DZF	CPLD reporting front door zone failed preflight test.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.
795	Preflight DZR	CPLD reporting rear door zone failed during preflight operation.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the CT board.
796	CPLD CT Unknown	CPLD reporting CT board is in an unknown state.	Recycle power to the CT board. If an unknown state report still exists, replace the CT board.

Fault Number(s)	Code Description	Fault Description	Resolution
797	Preflight HA Inspection	CPLD reporting hoistway access failed during preflight operation.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the COP board.
798	Preflight IC Stop Switch	CPLD reporting the In-Car Stop failed during preflight operation. The In-Car Stop switch input on the COP board has no power or the switch is wired incorrectly (reversed). The In-Car Stop switch is not present on car but inputs have not been jumped out.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the COP board.
799	Preflight Fire Stop Switch	CPLD reporting the Fire Stop failed during preflight operation. The controller is configured with a Fire Stop switch, but the COP-SF3 input is missing.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the COP board.
800	Preflight IC Insp	CPLD reporting IC Inspection input failed preflight check.	Disable preflight if the region's regulatory body allows by navigating to DEBUG | EDIT PARAMETERS | EDIT DECIMAL and turning 01-0064 to ON. Replace the COP board.
801	CPLD COP Unknown	CPLD reporting COP board is in an unknown state.	Recycle power to the COP board. If an unknown state report still exists, replace the COP board.
805	Door Overspeed Door Position Monitor-F	True car speed exceeded 150 fpm with front door position monitor open.	Check door contacts and wiring. Adjust the valve manually and check the controller speed matches contract speed.
806	Door Overspeed Door Position Monitor-R	True car speed exceeded 150 fpm with door position monitor open.	Check the rear door position monitor. Adjust the valve manually and check the controller speed matches contract speed.

Fault Number(s)	Code Description	Fault Description	Resolution
807	Earthquake	Earthquake input is too high.	Check EQ input by navigating to MAIN MENU | SETUP | EARTHQUAKE | ENABLE EQ. Check CW Derails by navigating to MAIN MENU | SETUP | EARTHQUAKE | CT POSITION.
808	Photoeye Test Fail	Freight door photoeye test has failed.	Check light curtain hardware.
809	Motion Prepare GSWF Open	Motion prepare sequence aborted due to incorrect GSWF state.	Front Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check wiring of the front GSW input. Check contacts of the front Gate switch. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
810	Motion Prepare LFT Open	Motion prepare sequence has aborted due to top front hall door lock is open.	Check wiring of top front locks. Check contacts of top front lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LFT input signal. Verify 120 VAC on LFT terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
811	Motion Prepare LFM OPEN	Motion prepare sequence has aborted due to middle front hall door lock is open.	Check wiring of middle front locks. Check contacts of middle front lock making sure they are making contact when hall doors are closed. Verify there is a MR-LFM input signal. Verify 120 VAC on LFM terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
812	Motion Prepare DPM F OPEN	Motion prepare sequence has aborted due to front door position monitor is open.	Check door wiring and safety contacts. Check input DPM-F on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.

Fault Number(s)	Code Description	Fault Description	Resolution
813	Motion Prepare LFB OPEN	Motion prepare sequence has aborted due to bottom front hall door lock is open.	Check wiring of bottom front locks. Check contacts of bottom front lock make sure they are making contact when the hall doors are closed. Check input MR-LFB input on MR board. Verify 120 VAC on LFB terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
814	Motion Prepare GSWR OPEN	Motion prepare sequence has aborted due to open rear Gate switch.	Rear Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check the wiring of the rear GSW input. Check contact of the rear Gate switch. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
815	Motion Prepare LRT OPEN	Motion prepare sequence has aborted due to top rear lock is open.	Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRT input signal. Verify 120 VAC on LRT terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
816	Motion Prepare LRM OPEN	Motion prepare sequence has aborted due to middle rear lock is open.	Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRM input signal. Verify 120 VAC on LRM terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
817	Motion Prepare LRB OPEN	Motion prepare sequence has aborted due to bottom rear lock is open.	Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRB input signal. Verify 120 VAC on LRB terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.

Fault Number(s)	Code Description	Fault Description	Resolution
818	Motion Prepare DPM R OPEN	Motion prepare sequence aborted due to incorrect rear door position monitor state.	Check door wiring and safety contacts. Check input DPM-R on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
819	Motion Accel GSWF Open	Motion acceleration sequence aborted due to incorrect GSWF state.	Front Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check wiring of the front GSW input. Check contacts of the front Gate switch. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
820	Motion Accel LFT Open	Motion acceleration sequence has aborted due to top front hall door lock is open. Input MR-LFT is missing on the MR board.	Check wiring of top front locks. Check contacts of top front lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LFT input signal. Verify 120 VAC on LFT terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
821	Motion Accel LFM Open	Motion acceleration sequence has aborted due to middle front hall door lock is open. Input MR-LFM is missing on the MR board.	Check wiring of middle front locks. Check contacts of middle front lock making sure they are making contact when hall doors are closed. Verify there is a MR-LFM input signal. Verify 120 VAC on LFM terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
822	Motion Accel LFB Open	Motion acceleration sequence has aborted due to bottom front hall door lock is open. Input M-LFB is missing on the MR board.	Check wiring of bottom front locks. Check contacts of bottom front lock make sure they are making contact when the hall doors are closed. Check input MR-LFB input on MR board. Verify 120 VAC on LFB terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.

Fault Number(s)	Code Description	Fault Description	Resolution
823	Motion Accel DPM F Open	Motion acceleration sequence has aborted due to front door position monitor is open. Input CT-DPM-F is missing on CT board.	Check door wiring and safety contacts. Check input DPM-F on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
824	Motion Accel GSWR Open	Motion acceleration sequence has aborted due to open rear Gate switch.	Rear Gate switch is not made. The Car Door Bypass enable switch is not active while on IC or CT inspection. Check the wiring of the rear GSW input. Check contact of the rear Gate switch. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
825	Motion Accel LRT Open	Motion acceleration sequence has aborted due to top rear lock is open. Input MR-LRT is missing on MR board.	Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRT input signal. Verify 120 VAC on LRT terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
826	Motion Accel LRM Open	Motion acceleration sequence has aborted due to middle rear lock is open. Input MR-LRM is missing on the MR board.	Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRM input signal. Verify 120 VAC on LRM terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
827	Motion Accel LRB Open	Motion acceleration sequence has aborted due to bottom rear lock is open. Input MR-LRB is missing on MR board.	Check contacts of top rear lock making sure they are making contact when the hall doors are closed. Verify there is a MR-LRB input signal. Verify 120 VAC on LRB terminal on the MR board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.

Fault Number(s)	Code Description	Fault Description	Resolution
828	Motion Accel DPM R Open	Motion acceleration sequence aborted due to incorrect rear door position monitor state. Input CT-DPM-R is missing on CT board.	Check door wiring and safety contacts. Check input DPM-R on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
829	Motion Prepare DCL F	Motion prepare sequence aborted due to missing front door closed limit. Input CT-DCL-F is missing on CT board.	Check the wiring of the door contacts. Check input CT-DCL-F on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
830	Motion Prepare DCL R	Motion prepare aborted due to missing DCL rear door closed limit. Input CT-DCL-R is missing on CT board.	Check the wiring of the door contacts. Check input CT-DCL-R signal on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
831	Motion Prepare DOL F	Motion prepare aborted due to missing front door open limit. Input CT-DOL-F is missing on CT board.	Check the wiring of the door contacts. Check input CT-DOL-F signal on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
832	Motion Prepare DOL R	Motion prepare aborted due to missing rear door open limit. Input CT-DOL-R is missing on CT board.	Check the wiring of the door contacts. Check input CT-DOL-R signal on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
833	Motion Accel DCL F	Motion prepare sequence aborted due to missing front door closed limit. Input CT-DCL-F is missing on CT board.	Check the wiring of the door contacts. Check input CT-DCL-F signal on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
834	Motion Accel DCL R	Motion prepare aborted due to missing DCL rear door closed limit. Input CT-DCL-R is missing on CT board.	Check the wiring of the door contacts. Check input CT-DCL-R signal on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.

Fault Number(s)	Code Description	Fault Description	Resolution
835	Motion Accel DOL F	Motion prepare aborted due to missing front door open limit. Input CT-DOL-F is missing on CT board.	Check the wiring of the door contacts. Check input CT-DOL-F signal on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
836	Motion Accel DOL R	Motion prepare aborted due to missing rear door open limit. Input CT-DOL-R is missing on CT board.	Check the wiring of the door contacts. Check input CT-DOL-R signal on CT board. Set SETUP | DOOR SETUP | DC ON RUN to ON to check if doors are sliding open at the start of run.
837	Valve Unknown	Primary Valve board is reporting an unknown state.	Recycle power to the Valve board. If an unknown state report still exists, replace the Valve board.
838	Valve POR RST	Primary Valve board processor was reset due to power loss or by user.	Wait for the controller to initialize. Verify the event can be accounted for either the controller being power cycled or pressing the reset button.
839	Valve WDT RST	The primary Valve board recovering from reset due to watchdog.	Contact Smartrise support.
840	Valve Board RST	The primary Valve board recovering from reset due to voltage dip.	Check voltage across 24V and REF terminals on the Valve board. Contact Smartrise support.
841	Valve Comm Loss	The primary Valve board reporting loss of communication with the controller. Loss of SAFE input to MR board.	Check the CAN bus wiring. Make sure the CAN termination jumpers are set correctly according to the prints. Verify power LED on the Valve board. Verify 24 VDC across P24 and REF terminals on the Valve board.
842	Valve Level Down	The primary Valve board reporting mismatch between valve level down control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 1 STATUS. Check DL signal on Valve board.

Fault Number(s)	Code Description	Fault Description	Resolution
843	Valve Level Up	The primary Valve board reporting mismatch between valve level up control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 1 STATUS. Check UL signal on Valve board.
844	Valve High Down	The primary Valve board reporting mismatch between valve high down control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 1 STATUS. Check DH signal on Valve board.
845	Valve High Up	The primary Valve board reporting mismatch between valve high up control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 1 STATUS. Check UH signal on Valve board.
846	Valve Start Motor	The primary Valve board reporting mismatch between control and status signals of the start motor output.	Check primary Valve board and wiring.
847	Valve Inv. Cmd.	The primary Valve board reporting both up and down commands issued at the same time.	Contact Smartrise support.
848	Valve CAN Bus RST	The primary Valve board reporting CAN bus reset.	Check for a short on the CAN bus.
849	Soft Starter Unknown	The soft starter is reporting an unknown state.	Recycle power to the soft starter. If an unknown state report still exists, replace the soft starter.
850	Soft Starter POR RST	The soft starter was reset due to power loss or by user.	Wait for the controller to initialize. Verify the event can be accounted for either the controller being power cycled or pressing the reset button.
851	Soft Starter WDT RST	The soft starter recovering from reset due to watchdog.	Contact Smartrise support.

Fault Number(s)	Code Description	Fault Description	Resolution
852	Soft Starter Board RST	The soft starter recovering from reset due to voltage dip.	Check the wiring on the soft starter. Contact Smartrise support.
853	Soft Starter Comm Loss	The soft starter reporting loss of communication with the controller.	Check the CAN bus wiring. Check the wiring on the soft starter. Verify the CAN termination jumpers are set correctly according to the prints. Verify power LED on soft starter.
854	Soft Starter Overcurrent	The primary soft starter reporting an overcurrent condition.	See the manufacturing Soft Starter manual.
855	Soft Starter Overvoltage	The primary soft starter reporting an overvoltage condition.	See the manufacturing Soft Starter manual.
856	Soft Starter Undervoltage	The primary soft starter reporting an undervoltage condition.	See the manufacturing Soft Starter manual.
857	Soft Starter Phase Missing	One phase of supplied power is missing.	Verify line motor wiring on soft starter. Contact Smartrise support.
858	Soft Starter Phase Sequence	Soft starter is powering up at wrong sequence.	Verify line motor wiring on soft starter. Contact Smartrise support.
859	Soft Starter CAN Bus RST	Primary soft starter reporting a CAN bus reset.	Verify the CL and CH wiring on the primary soft starter.
860	Valve Offline	Loss of communication between the Valve and MR board.	Check CAN bus wiring. Verify 24 VDC across P24 and REF terminals on the Valve board.
861	Soft Starter Offline	Communication lost with soft starter.	Check the communication wires for the primary soft starter.
862	Motor Overheat	The motor has overheated.	Replace the motor.
863	Valve 2 Unknown	The secondary Valve board is reporting an unknown state.	Recycle power to the secondary Valve board. If an unknown state report still exists, replace the Valve board.

Fault Number(s)	Code Description	Fault Description	Resolution
864	Valve 2 POR RST	The secondary Valve board processor was reset due to power loss or by user.	Wait for the controller to initialize. Verify the event can be accounted for either the controller being power cycled or pressing the reset button.
865	Valve 2 WDT RST	The secondary Valve board recovering from reset due to watchdog.	Contact Smartrise support.
866	Valve 2 Board RST	The secondary Valve board recovering from reset due to voltage dip.	Check voltage across 24V and REF terminals on the secondary Valve board. Contact Smartrise support.
867	Valve 2 Comm Loss	The secondary Valve board reporting loss of communication with the controller. Loss of SAFE input to MR board.	Check the CAN bus wiring. Make sure the CAN termination jumpers are set correctly according to the prints. Verify power LED on the Valve board. Verify secondary Valve board is active by navigating to SETUP | HYDRO | SECONDARY VALVE BOARD and set to ON. Verify 24 VDC across P24 and REF terminals on the secondary Valve board.
868	Valve 2 Level Down	The primary Valve board reporting mismatch between valve level down control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 2 STATUS. Check DL signal on Valve board.
869	Valve 2 Level Up	The secondary Valve board reporting mismatch between valve level up control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 2 STATUS. Check UL signal on Valve board.
870	Valve 2 High Down	The secondary Valve board reporting mismatch between valve high down control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 2 STATUS. Check DH signal on Valve board.

Fault Number(s)	Code Description	Fault Description	Resolution
871	Valve 2 High Up	The secondary Valve board reporting mismatch between valve high up control and status signals of level speed up output.	Check the Valve board wiring. Check the Valve board status by navigating to STATUS | VALVE 2 STATUS. Check UH signal on Valve board.
872	Valve2 Start Motor	The secondary Valve board reporting mismatch between control and status signals of the start motor output.	Check secondary Valve board and wiring.
873	Valve 2 Inv. Cmd.	A secondary valve control error has occurred.	Contact Smartrise support.
874	Valve 2 CAN Bus RST	The secondary Valve board reporting CAN bus reset.	Check for a short on the CAN bus.
875	Valve 2 Offline	Loss of communication between the Valve and MR board.	Check CAN bus wiring. Verify 24 VDC across P24 and REF terminals on the secondary Valve board. Verify the secondary Valve board is ON by navigating to SETUP | HYDRO | SECONDARY VALVE BOARD.
876	Valve Duplicate Address	A redundant address error has been detected.	Check and verify wiring of primary valve circuitry. Check the DIP switch settings of the primary Valve board.
877	Valve 2 Duplicate Address	A redundant address error has been detected.	Check and verify wiring of secondary valve circuitry. Check the DIP switch settings of the secondary Valve board.
878	TSRD Overspeed	Car speed exceeded the top terminal speed limit.	Increase the TSRD position offset, increase the TSRD debounce limit, or adjust the learned slowdown points.
880	Low Oil	Low Oil input signal is detected on MR board.	Check oil levels. Verify Low Oil input on MR board. Press reset button.

Fault Number(s)	Code Description	Fault Description	Resolution
881	Learn Slowdowns	Learned slowdown distance is invalid.	Check distance by navigating to SETUP | HYDRO |LEVEL DISTANCE UP and LEVEL DISTANCE DOWN If relearning, turn MR DIP 5A ON and set parameter 01-0253 to ON. When complete, turn 01-0253 OFF.
882	Low Pressure	Low pressure is detected.	Check the pump's low pressure sensor. Check MR-507 Low Pressure input.
883	Low Oil MLT	Car pump motor stayed consistently ON during one run and exceeded the run time limit or the tank has low oil.	Check pump oil levels.
884	Soft Starter 2 Offline	Communication lost with secondary soft starter.	Verify secondary soft starter is OF by navigating to SETUP | HYDRO |SOFT STARTER | RUN WITH ONE SS.
885	Soft Starter 2 Unknown	The secondary soft starter is reporting an unknown state.	Recycle power to the secondary soft starter. If an unknown state report still exists, replace the soft starter.
886	Soft Starter 2 POR RST	The secondary soft starter was reset due to power loss or by user.	Wait for the controller to initialize. Verify the event can be accounted for either the controller being power cycled or pressing the reset button.
887	Soft Starter 2 WDT RST	The secondary soft starter recovering from reset due to watchdog.	Contact Smartrise support.
888	Soft Starter 2 Board RST	The secondary soft starter recovering from reset due to voltage dip.	Contact Smartrise support.
889	Soft Starter 2 Comm Loss	The secondary soft starter reporting loss of communication with the controller.	Check the CAN bus wiring. Make sure the CAN termination jumpers are set correctly according to the prints. Verify power LED on soft starter.

Fault Number(s)	Code Description	Fault Description	Resolution
890	Soft Starter 2 Overcurrent	The secondary soft starter reporting an overcurrent condition.	See the manufacturing Soft Starter manual.
891	Soft Starter 2 Overvoltage	The secondary soft starter reporting an overvoltage condition.	See the manufacturing Soft Starter manual.
892	Soft Starter 2 Undervoltage	The secondary soft starter reporting an undervoltage condition.	See the manufacturing Soft Starter manual.
893	Soft Starter 2 Phase Missing	One phase of supplied power is missing.	Verify line motor wiring on soft starter. Contact Smartrise support.
894	Soft Starter 2 Phase Sequence	Soft starter is powering up at wrong interval.	Verify line motor wiring on soft starter. Contact Smartrise support.
895	Soft Starter 2 CAN Bus RST	Secondary soft starter reporting a CAN bus reset.	Verify the CL and CH wiring on the secondary soft starter.
896	Viscosity Max Cycles	Viscosity Operation reached its maximum number of cycles	Check Viscosity sensor and input. Reset DIP 1A on MR board.
897	Soft Starter Input Fault	Discrete input fault 1 from the soft starter has been activated.	If reset on the primary soft starter fault option is enabled, the controller will attempt to cycle power to the soft starter three times (if required) when it shows an active fault. After three attempts have been made, the controller stops sending a reset command to the soft starter. If the car completes a run without faulting, it will reset its retry count.

Fault Number(s)	Code Description	Fault Description	Resolution
898	Soft Starter 2 Input Fault	Discrete input fault 2 from the soft starter has been activated.	If reset on the secondary soft starter fault option is enabled, the controller will attempt to cycle power to the soft starter three times (if required) when it shows an active fault. After three attempts have been made, the controller stops sending a reset command to the soft starter. If the car completes a run without faulting, it will reset its retry count.
899	Phase Fault	Line monitoring hardware has detected voltage lines are out of phase or missing. • **NOTE**: Only checked if programmed.	Check line monitoring hardware and wiring.
900	COPA Param Sync	COPA indicating the system is synching up to the set parameters.	N/A
901	COPB Param Sync	COPB indicating the system is synching up to the set parameters.	N/A
902	Soft Starter Address	Primary soft starter reporting another board on the network has the same address.	Check primary soft starter address DIP switches.
903	Soft Starter 2 Address	Secondary soft starter reporting another board on the network has the same address.	Check secondary soft starter address DIP switches.
904	UPH Valve MON	Neutral side on UPH valve is not present for valve to actuate. • **NOTE**: Valid for bucher and blain valve type configurations only.	Check the wiring of the UPH Valve Monitor input.

Fault Number(s)	Code Description	Fault Description	Resolution
905	DNH Valve MON	Neutral side of DNH valve is not present for valve to actuate. • **NOTE**: Valid for bucher and blain valve type configurations only.	Check the wiring of the DNH Valve Monitor input.
906	INSP Valve MON	Neutral side of Inspection valve is not present for valve to actuate. • **NOTE**: Valid for bucher and blain valve type configurations only.	Check the wiring of the Inspection Valve Monitor input.
908	OOS Consecutive	The car has been flagged for three consecutive faults and taken out of service.	Check fault log. Recycle power to the controller. Contact Smartrise support.
909	OOS Hourly	The car has been flagged for more than set Hourly Fault Limit (01-0160) and taken out of service. The car goes back in service after the hour has expired.	Check fault log. Recycle power to the controller. Change mode to Inspection mode.
910	OOS Door	The car has been flagged for more than set Door Hourly Fault Limit (01-0148) and taken out of service. The car goes back in service after the hour has expired.	Check fault log. Recycle power to the controller. Change mode to Inspection mode.
911	OOS Max Starts	The car has been flagged for more than set Max Starts Per Minute (01-0196) and taken out of service. The car goes back in service after the minute has expired.	Check if the car is repeatedly correcting or releveling trying to make floor level. Check if the car is repeatedly trying and failing to start a run. Recycle power to the controller. Change mode to Inspection mode.

Fault Number(s)	Code Description	Fault Description	Resolution
912	OOS Keyswitch	The car has been taken out of service by the OOS keyswitch input.	Check the status of the OOS keyswitch input.
913	OOS DL20	The car has been taken out of service by DL20 fixture.	Check DL20 fixture. Contact Smartrise support.
914	Delta Stuck Active	The Delta relay's feedback signal shows the relay is active, when the Delta output driving the relay is inactive. • NOTE: Valid for Wye Delta style starters only.	Check soft starter. Contact Smartrise support.
915	Delta Stuck Inactive	The Delta relay's feedback signal shows the relay is inactive, when the Delta output driving the relay is active. NOTE: Valid for Wye Delta style starters only.	See the manufacturing Soft Starter manual. Contact Smartrise support.
916	Starter Overload	The starter overload relay is active.	Check soft starter. Contact Smartrise support.
917	EB1 Drop H	EB1 relay has dropped instead of being picked.	Check EB1 relay. Check EB2 relay.
918	Cannot Run Up	The car does not move due to a Low oil, MLT, or a motor overheat condition.	Reset DIP 1A on MR board. Verify that Low Oil, MLT, or Motor Overheat is not active.
1000	CW Derail	The controller CW Derail was triggered.	Verify if the CW Derail was activated.

2. Alarms

The Alarms menu shows the alarms reported by the hardware.

To view the active alarm, navigate to MAIN MENU l ALARMS l ACTIVE.

To view the logged (history) alarms, navigate to MAIN MENU l ALARMS l LOGGED.

The user can press the right arrow and then the down button to view the information about the alarm. The user then can look up the alarm number to determine a resolution for the alarm.

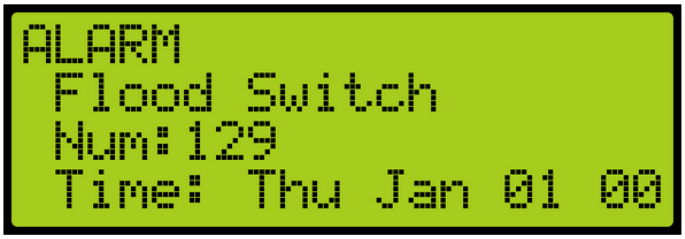

Figure 4: Alarm Part 1 of 2

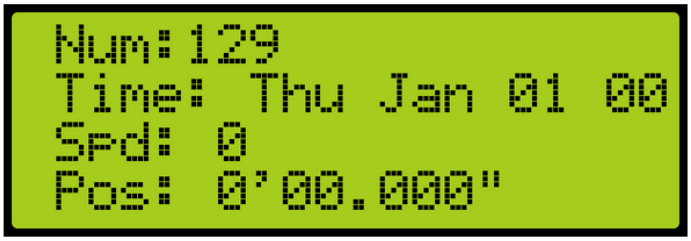

Figure 5: Alarm Part 2 of 2

Alarm Type – Lists the name of the alarm.

Num – Lists the alarm number.

Time – Scrolls from left to right showing the day, date, and time of the alarm.

Spd – Displays the speed of the car when the alarm occurred.

Pos – Displays the position of the car when the alarm occurred.

The table below lists the Alarms and Resolution.

Table 2: Alarms and Resolution

Alarm Number(s)	Code Description	Alarm Description	Resolution
1-8	NTS UP P1-1 Through P1-8 (Normal Motion)	**NOTE:** The lowest point is closest to the terminal. NTS point 1 has been tripped in the up direction for normal motion profile. NTS point 2 has been tripped in the up direction for normal motion profile. NTS point 3 has been tripped in the up direction for normal motion profile. NTS point 4 has been tripped in the up direction for normal motion profile. NTS point 5 has been tripped in the up direction for normal motion profile. NTS point 6 has been tripped in the up direction for normal motion profile. NTS point 7 has been tripped in the up direction for normal motion profile. NTS point 8 has been tripped in the up direction for normal motion profile.	Verify the learn and slowdown learn was completed successfully and the number of floors learned is correct. Adjust the leveling/releveling distance if needed.

Alarm Number(s)	Code Description	Alarm Description	Resolution
17-24	NTS UP P3-1 Through P3-8 (E-Power Motion)	**NOTE:** The lowest point is closest to the terminal. NTS point 1 has been tripped in the up direction for Emergency Power motion profile. NTS point 2 has been tripped in the up direction for Emergency Power motion profile. NTS point 3 has been tripped in the up direction for Emergency Power motion profile. NTS point 4 has been tripped in the up direction for Emergency Power motion profile. NTS point 5 has been tripped in the up direction for Emergency Power motion profile. NTS point 6 has been tripped in the up direction for Emergency Power motion profile. NTS point 7 has been tripped in the up direction for Emergency Power motion profile. NTS point 8 has been tripped in the up direction for Emergency Power motion profile.	Verify the learn and slowdown learn and slowdown learn was completed successfully and the number of floors learned is correct. Adjust the leveling/releveling distance if needed.

Alarm Number(s)	Code Description	Alarm Description	Resolution
25-32	NTS UP P4-1 Through P4-8 (Short Motion)	**NOTE:** The lowest point is closest to the terminal. NTS point 1 has been tripped in the up direction for short motion profile. NTS point 2 has been tripped in the up direction for short motion profile. NTS point 3 has been tripped in the up direction for short motion profile. NTS point 4 has been tripped in the up direction for short motion profile. NTS point 5 has been tripped in the up direction for short motion profile. NTS point 6 has been tripped in the up direction for short motion profile. NTS point 7 has been tripped in the up direction for short motion profile. NTS point 8 has been tripped in the up direction for short motion profile.	Verify the learn and slowdown learn was completed successfully and the number of floors learned is correct. Adjust the leveling/releveling distance if needed.

Alarm Number(s)	Code Description	Alarm Description	Resolution
33-40	NTS DOWN P1-1 Through P1-8 (Normal Motion)	**NOTE:** The lowest point is closest to the terminal. NTS point 1 has been tripped in the down direction for normal motion profile. NTS point 2 has been tripped in the down direction for normal motion profile. NTS point 3 has been tripped in the down direction for normal motion profile. NTS point 4 has been tripped in the down direction for normal motion profile. NTS point 5 has been tripped in the down direction for normal motion profile. NTS point 6 has been tripped in the down direction for normal motion profile. NTS point 7 has been tripped in the down direction for normal motion profile. NTS point 8 has been tripped in the down direction for normal motion profile.	Verify the learn and slowdown learn was completed successfully and the number of floors learned is correct. Adjust the leveling/releveling distance if needed.

Alarm Number(s)	Code Description	Alarm Description	Resolution
49-56	NTS DOWN P3-1 Through P3-8 (E-Power)	**NOTE:** The lowest point is closest to the terminal. NTS point 1 has been tripped in the down direction for e-power motion profile. NTS point 2 has been tripped in the down direction for e-power motion profile. NTS point 3 has been tripped in the down direction for e-power motion profile. NTS point 4 has been tripped in the down direction for e-power motion profile. NTS point 5 has been tripped in the down direction for e-power motion profile. NTS point 6 has been tripped in the down direction for e-power motion profile. NTS point 7 has been tripped in the down direction for e-power motion profile. NTS point 8 has been tripped in the down direction for e-power motion profile.	Verify the learn and slowdown learn was completed successfully and the number of floors learned is correct. Adjust the leveling/releveling distance if needed.

Alarm Number(s)	Code Description	Alarm Description	Resolution
57-64	NTS DOWN P4-1 Through P4-8 (Short Motion)	**NOTE**: The lowest point is closest to the terminal. NTS point 1 has been tripped in the down direction for short motion profile. NTS point 2 has been tripped in the down direction for short motion profile. NTS point 3 has been tripped in the down direction for short motion profile. NTS point 4 has been tripped in the down direction for short motion profile. NTS point 5 has been tripped in the down direction for short motion profile. NTS point 6 has been tripped in the down direction for short motion profile. NTS point 7 has been tripped in the down direction for short motion profile. NTS point 8 has been tripped in the down direction for short motion profile.	Verify the learn and slowdown learn was completed successfully and the number of floors learned is correct. Adjust the leveling/releveling distance if needed.
65-68	NTS INVALID P1 – Normal Profile NTS INVALID P2 – Inspection Profile NTS INVALID P3 – Emergency Power profile NTS INVALID P4 – Short run profile.	Normal/Inspection/Emergency Power/ Short run profile NTS points are not of increasing in position/speed value or a trip speed exceeds contract speed.	Cycle power to the system to trigger an NTS point recalculation.

Alarm Number(s)	Code Description	Alarm Description	Resolution
69	Emergency Stop Class Op	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0150 to OFF.
70	Emergency Stop Timeout	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0150 to OFF.
71	Emergency Stop Move Timeout	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0150 to OFF.
72	Emergency Stop Invalid Inspection	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0150 to OFF.
73	Emergency Stop Recall Destination	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0150 to OFF.
74	Emergency Stop At Next Floor	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0130 to OFF.
75	Emergency Stop Earthquake	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0150 to OFF.
76	Emergency Stop Flood	When 01-0150 is set to ON, this debugging alarm will signal when an ESTOP occurs.	To turn off the alarm, adjust parameter 01-0150 to OFF.

Alarm Number(s)	Code Description	Alarm Description	Resolution
77	Stop No Door Zone	Car is stopped outside of a door zone.	Verify the door zone sensor is in the center of the blade when the car is level to the floor. Check for faults that may have caused the car to stop outside the floor. Check the position the alarm was logged at and compare with the learned floor position (parameter starting at 24-0096) in decimal. If the car overshot the floor, adjust the leveling/releveling distance if required.
78	Releveling	The car was in a releveling condition.	The floor level may be set improperly.
79	Defaulting Parameter BIT 1	The 1-bit parameters are being defaulted.	Wait until parameters are defaulted.
80	Defaulting Parameter BIT 8	The 8-bit parameters are being defaulted.	Wait until parameters are defaulted.
81	Defaulting Parameter BIT 16	The 16-bit parameters are being defaulted.	Wait until parameters are defaulted.
82	Defaulting Parameter BIT 24	The 24-bit parameters are being defaulted.	Wait until parameters are defaulted.
83	Defaulting Parameter BIT 32	The 32-bit parameters are being defaulted.	Wait until parameters are defaulted.
84	Recall Invalid Door	Requested recall destination has an invalid door configuration.	Set recall destination to valid door opening.
85	Recall Invalid Floor	Requested recall destination has an invalid floor.	Set recall destination to a valid floor.
86	Recall Invalid Opening	Requested recall destination has an invalid opening.	Set recall destination to a valid opening.
87-92	MR/CT/COP Processors Watchdog Disabled	MRA, MRB, CTA, CTB, COPA, or COPB processors have started up with a watchdog disabled.	Remove the WD jumper and restart the board to reenable WD.

Alarm Number(s)	Code Description	Alarm Description	Resolution
93-96	MR CAN 1 - MR CAN 4 Reset	MR board CAN 1 through 4 transceiver has self-reset due to excessive bus errors. CAN 1: Car Network (CN1+/-). Connects MR to CT to COP and any Expansion boards. CAN 2: Brake Network (BN+/-). Connects MR to Valve boards. CAN 3: Aux Network. Connects MR to any third-party devices and to serial hall lantern network. CAN 4: Group network. Interconnects all the MR boards in the group, Riser boards, and DAD unit.	Verify bus wiring. Verify termination jumpers are per print. Only the two ends of a network should be terminated. If the problem persists, remove the boards from the network to isolate the board with the problem transceiver. CAN1 reset: • Begin by checking termination jumpers on CT and COP boards. • Disconnect any Expansion boards from the network. CAN2 reset: • Check termination on the Valve boards. The last Valve board must have DIP 5 ON.

Alarm Number(s)	Code Description	Alarm Description	Resolution
93-96 cont.	MR CAN 1 - CAN 4 Reset	MR board CAN 1 through 4 transceiver has self-reset due to excessive bus errors. CAN 1: Car Network (CN1+/-). Connects MR to CT to COP and any Expansion boards. CAN 2: Brake Network (BN+/-). Connects MR to Valve boards. CAN 3: Aux Network. Connects MR to any third-party devices and to serial hall lantern network. CAN 4: Group network. Interconnects all the MR boards in the group, Riser boards, and DAD unit.	CAN3 reset: • If serial lanterns are present, check that only the last Hall board in the network has termination DIP set. • If both serial lanterns and other third-party devices are present (PI driver board), verify termination jumper on third party the device is off. • If only one third party device is present, verify termination is ON for the device. CAN4 reset: • Verify GN term jumper on the top right of the MR board is set correctly. Only two ends of the group network should be terminated.

Alarm Number(s)	Code Description	Alarm Description	Resolution
97-100	CT CAN 1 - CAN 4 Reset	CT board CAN 1 through 4 transceiver has self-reset due to excessive bus errors. CAN 1: Car Network (CN1+/-). Connects MR to CT to COP and any Expansion boards. CAN 2: CEDES camera. CAN 3: Aux Network. Connects CT to any third-party devices. CAN 4: CEDES camera.	Verify bus wiring. Verify termination jumpers per prints. Only the two ends of a network should be terminated. Measure resistance on the network with the power off. If two ends are terminated, the resistance should read around 70 ohms. If one end is terminated the resistance should read around 140 ohms. If the problem persists, remove the boards from the network to isolate the board with the problem transceiver. For CAN 1 resets, check termination jumpers on the car network. Remove Expansion boards to isolate issue. CAN 1 termination jumper should not be set on the CT board. If COP Expansion boards are present, the CAN 1 termination jumper should not be set on the COP board.

Alarm Number(s)	Code Description	Alarm Description	Resolution
101-104	COP CAN 1 - CAN 4 RESET	COP board CAN 1 through 4 transceiver has self-reset due to excessive bus errors.	Verify bus wiring. Verify termination jumpers per prints. Only the two ends of a network should be terminated. Measure resistance on the network with the power off. If two ends are terminated, the resistance should read around 70 ohms. If one end is terminated the resistance should read around 140 ohms. If the problem persists, remove the boards from the network to isolate the board with the problem transceiver. For CAN 1 resets, check termination jumpers on the car network. Remove Expansion boards to isolate issue. CAN 1 termination jumper should not be set on the CT board. If COP Expansion boards are present, the CAN 1 termination jumper should not be set on the COP board.
107	Fully Loaded	The car is fully loaded and will no longer accept hall calls.	Weight will have to be removed from the car. Check the calibration of the load sensors.
108-112	Remote PU 1,8,16,24,32 BIT	The car has received a remote request to change one of the bit parameters.	This is a notification.
115	Invalid Manual Run Car	The manual run request was rejected due to invalid car door state.	Verify all door signals are in the correct state.
116	Invalid Manual Run Hall	The manual run requested was rejected due to invalid hall door state.	Verify all hall door signals are in the correct state.

Alarm Number(s)	Code Description	Alarm Description	Resolution
117	Invalid Manual Run Arm	The manual run requested was rejected due to disarmed direction inputs. This may occur if the car enters inspection with its direction inputs active.	Verify wiring to the inspection direction inputs.
120	Invalid Manual Run DOBF	The manual run request was rejected due to front door open button request.	If the user did not press the DOB front button, check wiring to the DOB front input.
121	Invalid Manual Run DOBR	The manual run request was rejected due to rear door open button request.	If the user did not press the DOB rear button, check wiring to the DOB rear input.
122	Invalid Manual Run Hoistway Access	The manual run request was rejected due to invalid hoistway access floor or opening configuration.	Verify setting of openings and floors. Navigate to: SETUP | HOISTWAY ACCESS | TOP FLOOR SETUP | HOISTWAY ACCESS | BOTTOM FLOOR SETUP | HOISTWAY ACCESS | TOP OPENING SETUP | HOISTWAY ACCESS | BOTTOM OPENING
123	Invalid Manual Run CT Enable	The manual run request was rejected due to missing CT enable signal.	Verify wiring to the CT Inspection input (CT-507).
124	Idle Dir Timeout	Car has been idle with a valid destination for the user configured timeout (08-0202) and has been forced to change direction.	Contact Smartrise support.
125-127	MR/CT/COP CPLD Offline	Debugging communication timer with the MR/CT/COP CPLD elapsed.	Contact Smartrise support.
129	Flood Switch	Flood switch has been activated.	Deactivate the flood switch input.

Alarm Number(s)	Code Description	Alarm Description	Resolution
130	Remote PU Backup	The car has received a remote request to change parameters in a bulk parameter restore format.	If this behavior was not intended, turn off MR DIP 4A to disable remote parameter updates.
131	Duplicate EP InterGroup	Two devices on the inter-group network that connects separate groups of cars are communicating with the same group priority ID (08-0145).	Navigate to DEBUG | EDIT PARAMETERS | EDIT DECIMAL, 08-0145 for each car. Check that all the cars within the same group have the same value, but that this value is not shared between cars of different groups.
132-139	I-GROUP 1 THROUGH I-GROUP 8 No Connection	Communication with a group on the inter-group network has been lost.	Check that the CAN H/L wiring between RIS4 CAN2 of different groups is daisy chained and not in a star configuration. Reference must also be shared between cars. If this connection is not required, disconnect any wiring between the groups, and set DEBUG | EDIT PARAMETERS | EDIT DECIMAL, 08-0145 to zero and power cycle the system.
140	I-GROUP0 Stat Rcvd	Intergroup status packet received by group with priority 0.	A group with priority 0 should not be connected to the intergroup network. Remove the intergroup connection to RIS4 CAN2 if the group reporting this alarm does not participate in intergroup emergency power coordination. Otherwise, set the intergroup priority of the cars in this group to a unique value among the groups participating in the intergroup network.
141	CCB Secured	Pressed car call button is secured.	N/A

Alarm Number(s)	Code Description	Alarm Description	Resolution
144	LWD Load Learn	C4 load weighing device is performing a load learn at each landing.	This is a notification of automatic load learn. If this behavior is not intended, turn SETUP | LOAD WEIGHER | TRIGGER LOAD LEARN to OFF.
145	LWD Recalibrate	Smartrise load weighing device is performing an empty car learn at each landing.	This is a notification of automatic empty car learn. If this behavior is not intended, make sure SETUP | LOAD WEIGHER | TRIGGER RECALIBRATE is OFF. Also set SETUP | LOAD WEIGHER | AUTO RECALIBRATE to OFF.
146	Mode Changed	This debugging alarm signals when a mode of operation changes.	To turn off the alarm, adjust parameter 01-0129 to OFF.

Alarm Number(s)	Code Description	Alarm Description	Resolution
147-161	Riser 1 Errors	147 – RIS1 OFFLINE Riser1 marked as offline after 30 seconds without communication. 148 – RIS1 UNK - Riser1 reporting an unknown error. 149 – RIS1 POR RST - Riser1 reporting a power-on reset error. 150 – RIS1 WDT RST - Riser1 reporting a watchdog reset error. 151 – RIS1 BOD RST - Riser1 reporting a brown-out reset error. 152 – RIS1 GRP COM - Riser1 reporting a group network communication loss error. 153 – RIS1 HALL COM - Riser1 reporting a hall network communication loss error. 154 – RIS1 CAR COM - Riser1 reporting an invalid error. 155 – RIS1 MST COM - Riser1 reporting an invalid error. 156 – RIS1 SLV COM - Riser1 reporting an invalid error. 157 – RIS1 ADDRESS - Riser1 has detected another board with the same address. 158 – RIS1 BUS RST 1 - Riser1 reporting a CAN1 bus reset error. 159 – RIS1 BUS RST 2 - Riser1 reporting a CAN2 bus reset error.	Check and verify wiring of Riser 1 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.

Alarm Number(s)	Code Description	Alarm Description	Resolution
147-161 cont.	Riser 1 Errors	160 – RIS1 BUS INV MSG 1 - Riser 1 reporting a CAN1 bus invalid data error. 161 – RIS1 BUS INV MSG 2 - Riser 1 reporting a CAN2 bus invalid data error.	Check and verify wiring of Riser 1 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.
162-176	Riser 2 Errors	162 – RIS2 OFFLINE – Riser2 marked as offline after 30 seconds without communication. 163 – RIS2 UNK – Riser2 reporting an unknown error. 164 – RIS2 POR RST – Riser2 reporting a power-on reset error. 165 – RIS2 WDT RST – Riser2 reporting a watchdog reset error. 166 – RIS2 BOD RST – Riser2 reporting a brown-out reset error. 167 – RIS2 GRP COM – Riser2 reporting a group network communication loss error. 168 – RIS2 HALL COM – Riser2 reporting a hall network communication loss error. 169 – RIS2 CAR COM – Riser2 reporting an invalid error. 170 – RIS2 MST COM – Riser2 reporting an invalid error. 171 – RIS2 SLV COM – Riser2 reporting an invalid error. 172 – RIS2 ADDRESS – Riser2 has detected another board with the same address.	Check and verify wiring of Riser 2 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.

Alarm Number(s)	Code Description	Alarm Description	Resolution
162-176 cont.	Riser 2 Errors	173 – RIS2 BUS RST 1 – Riser2 reporting a CAN1 bus reset error. 174 – RIS2 BUS RST 2 – Riser2 reporting a CAN2 bus reset error. 175 – RIS2 BUS INV MSG 1 – Riser 2 reporting a CAN1 bus invalid data error. 176 – RIS2 BUS INV MSG 2 – Riser 2 reporting a CAN2 bus invalid data error.	Check and verify wiring of Riser 2 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.
177-191	Riser 3 Errors	177 – RIS3 OFFLINE – Riser3 marked as offline after 30 seconds without communication. 178 – RIS3 UNK – Riser3 reporting an unknown error. 179 – RIS3 POR RST – Riser3 reporting a power-on reset error. 180 – RIS3 WDT RST – Riser3 reporting a watchdog reset error. 181 – RIS3 BOD RST – Riser3 reporting a brown-out reset error. 182 – RIS3 GRP COM – Riser3 reporting a group network communication loss error. 183 – RIS3 HALL COM – Riser3 reporting a hall network communication loss error. 184 – RIS3 CAR COM – Riser3 reporting an invalid error. 185 – RIS3 MST COM – Riser3 reporting an invalid error.	Check and verify wiring of Riser 3 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.

Alarm Number(s)	Code Description	Alarm Description	Resolution
177-191 cont.	Riser 3 Errors	186 – RIS3 SLV COM – Riser3 reporting an invalid error. 187 – RIS3 ADDRESS – Riser3 has detected another board with the same address. 188 – RIS3 BUS RST 1 – Riser3 reporting a CAN1 bus reset error. 189 – RIS3 BUS RST 2 – Riser3 reporting a CAN2 bus reset error. 190 – RIS3 BUS INV MSG 1 – Riser 3 reporting a CAN1 bus invalid data error. 191 – RIS3 BUS INV MSG 2 – Riser 3 reporting a CAN2 bus invalid data error.	Check and verify wiring of Riser 3 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.
192-206	Riser 4 Errors	192 – RIS4 OFFLINE - Riser1 marked as offline after 30 seconds without communication. 193 – RIS4 UNK – Riser4 reporting an unknown error. 194 – RIS4 POR RST – Riser4 reporting a power-on reset error. 195 – RIS4 WDT RST – Riser4 reporting a watchdog reset error. 196 – RIS4 BOD RST – Riser4 reporting a brown-out reset error. 197 – RIS4 GRP COM – Riser4 reporting a group network communication loss error. 198 – RIS4 HALL COM – Riser4 reporting a hall network communication loss error.	Check and verify wiring of Riser 4 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.

Alarm Number(s)	Code Description	Alarm Description	Resolution
192-206 cont.	Riser 4 Errors	199 – RIS4 CAR COM – Riser4 reporting an invalid error. 200 – RIS4 MST COM – Riser4 reporting an invalid error. 201 – RIS4 SLV COM – Riser4 reporting an invalid error. 202 – RIS4 ADDRESS – Riser4 has detected another board with the same address. 203 – RIS4 BUS RST 1 – Riser4 reporting a CAN1 bus reset error. 204 – RIS4 BUS RST 2 – Riser4 reporting a CAN2 bus reset error. 205 – RIS4 BUS INV MSG 1 – Riser 4 reporting a CAN1 bus invalid data error. 206 – RIS4 BUS INV MSG 2 – Riser 4 reporting a CAN2 bus invalid data error.	Check and verify wiring of Riser 4 circuitry. Check the DIP switch settings of the Riser board. Check termination jumpers on the board.
207-214	Dispatch Timeout C1 to C8	Hall call is assigned to a car and adjustable time lapses before the car leaves the floor. Time out can be set through SETUP | GROUP SETUP | DISPATCH TIMEOUT.	Timeout occurs if the doors are held open and the car is unable to service the hall call. Check for faults.
215-222	Dispatch Timeout X1 to X8	Hall call is assigned to an alien car and adjustable time lapses before the car leaves the floor. Time out can be set through SETUP | GROUP SETUP | XREG DEST TIMEOUT.	Check faults and door status of the cross-registration car.
223-230	XReg Offline 1 to 8	Alien car (1-8) is reported to be offline.	Check connection to alien car and cross-registration system.

Alarm Number(s)	Code Description	Alarm Description	Resolution
232-298	MRA Runtime Modules 1-67	Module runtime limit exceeded for module index 1-67.	Contact Smartrise support.
299-362	MRB Runtime Modules 1-64	Module runtime limit exceeded for module index 1-64.	Contact Smartrise support.
363-427	CTA Runtime Modules 1-65	Module runtime limit exceeded for module index 1-65.	Contact Smartrise support.
428-491	CTB Runtime Modules 1-64	Module runtime limit exceeded for module index 1-64.	Contact Smartrise support.
492-555	COPA Runtime Modules 1-64	Module runtime limit exceeded for module index 1-64.	Contact Smartrise support.
556-619	COPB Runtime Modules 1-64	Module runtime limit exceeded for module index 1-64.	Contact Smartrise support.
620-627	Car (1-8) Offline	A car that was active in the group previously is now appearing offline.	Check group connections GN+/GN-. Check that reference (REF) is shared between group cars. Verify the car that is reported offline is powered ON. Check status of the car by navigating to DEBUG | CAR DATA and scrolling to the car that is reported offline.
628	DDM Offline	DD Panel manager board has gone offline.	Check DD manager board wiring.
629	Door Open in Motion	Test alarm signaling that both the locks and Gate switch are open while in motion.	Enable this by adjusting parameter 01-0159 to ON.
630	FRAM Redundancy	FRAM's data redundancy check has failed, but the data was recovered.	This is a notification enabled by setting 01-0169 to ON. If this issue is reoccurring, contact Smartrise support.
631	Door Open During Run	Debugging alarm signaling that the DO output is asserted during a run. Will not flag if decelerating, in stop sequence, or releveling.	Verify wiring to the door operator and check the car door data for correct signals.

Alarm Number(s)	Code Description	Alarm Description	Resolution
632	In Dest Door Zone During Run	Debugging alarm signaling that the flag preventing DO is being lost during a run. Will not flag if decelerating, in stop sequence, or releveling.	Verify wiring to the door operator and check the car door data for correct signals.
633-640	Duplicate MR 501-508	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
641-656	Duplicate CT 501-516	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
657-672	Duplicate COP 501-516	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
673-704	Duplicate RIS(1-4) 501-508	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
705-1024	Duplicate EXP(1-40) 501-508	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
1025-1032	Duplicate MR 601-608	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
1033-1048	Duplicate CT 601-616	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
1049-1064	Duplicate COP 601-616	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
1065-1096	Duplicate RIS(1-4) 601-608	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
1097-1416	Duplicate EXP(1-40) 601-608	Specified terminal exceeds the two duplicate limit per input function.	Clear the terminal's function.
1418	DL20 Offline CT	Communication between DL20 fixture and CT board has been lost.	Check wiring and power to DL20. If the CT does not connect to a DL20 fixture, set DEBUG | EDIT PARAMETERS, 01-0204 to OFF and cycle power to the controller.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1419	DL20 Offline COP	Communication between DL20 fixture and COP board has been lost.	Check wiring and power to DL20. If the COP does not connect to a DL20 fixture, set DEBUG | EDIT PARAMETERS, 01-0205 to OFF and cycle power to the controller.
1420	CPLD OVF MR	CPLD communication buffers have been overrun.	Contact Smartrise support. To disable this alarm, turn DEBUG | EDIT PARAMTERS, 01-0230 to ON.
1421	CPLD OVF CT	CPLD communication buffers have been overrun.	Contact Smartrise support. To disable this alarm, turn DEBUG | EDIT PARAMTERS, 01-0230 to ON
1422	CPLD OVF COP	CPLD communication buffers have been overrun.	Contact Smartrise support. To disable this alarm, turn DEBUG | EDIT PARAMTERS, 01-0230 to ON.
1423	Fire Key Main	Fire Phase 1 has been activated by the main fire keyswitch.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1424	Fire Key Remote	Fire Phase 1 has been activated by the remote fire keyswitch.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1425	Fire Smoke Main	Fire Phase 1 has been activated by the main smoke input.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1426	Fire Smoke Alt	Fire Phase 1 has been activated by the alternate smoke input.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1427	Fire Smoke MR	Fire Phase 1 has been activated by the machine room smoke input.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1428	Fire Smoke HA	Fire Phase 1 has been activated by the hoistway smoke input.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1429	Fire Smoke Latched	Fire Phase 1 has been activated by a latched fire recall source following a power loss.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1430	Fire Smoke Pit	Fire Phase 1 has been activated by the pit smoke input.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1431	Fire Smoke MR 2	Fire Phase 1 has been activated by the second machine room smoke input.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1432	Fire Smoke HA 2	Fire Phase 1 has been activated by the second hoistway smoke input.	Check the fire input and Riser board status by navigating to STATUS | RISER BOARD.
1433	NEED TO Reset MR	MR board needs to be reset.	Cycle power to the MR board.
1434	Need To Reset CT	CT board needs to be reset.	Cycle power to the CT board.
1435	Need To Reset COP	COP board needs to be reset.	Cycle power to the COP board.
1437	Dupar COP Offline	Communication has been lost between Dupar COP and COP board.	Check wiring between Dupar COP and COP (C3H/C3L). If system is not configured for a Dupar COP, set 01-0156 to OFF and then cycle power to the controller.
1438	RIS1 HB Offline	Riser 1 has reported communication loss with one of its Hall boards.	Check the status of a Hall Board reporting 0% communication by navigating to STATUS | HALL BOARD STATUS on the MR board and check wiring. If the missing Hall board does not exist, cycle power to the Riser board to clear the error.
1439	RIS2 HB Offline	Riser 2 has reported communication loss with one of its Hall boards.	Check the status of a Hall Board reporting 0% communication by navigating to STATUS | HALL BOARD STATUS on the MR board and check wiring. If the missing Hall board does not exist, cycle power to the Riser board to clear the error.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1440	RIS3 HB Offline	Riser 3 has reported communication loss with one of its Hall boards.	Check the status of a Hall Board reporting 0% communication by navigating to STATUS | HALL BOARD STATUS on the MR board and check wiring. If the missing Hall board does not exist, cycle power to the Riser board to clear the error.
1441	RIS4 HB Offline	Riser 4 has reported communication loss with one of its Hall boards.	Check the status of a Hall Board reporting 0% communication by navigating to STATUS | HALL BOARD STATUS on the MR board and check wiring. If the missing Hall board does not exist, cycle power to the Riser board to clear the error.
1442	Shield Unknown	Shield error state is unknown.	Contact Smartrise support.
1443	Shield POR Reset	Shield is starting up after a standard reset event.	Check wiring of power and network lines.
1444	Shield BOD Reset	Shield is starting up after a brown out reset event.	Check wiring of power and network lines.
1445	Shield Watchdog Reset	Shield is starting up after a watchdog timer reset event.	Check wiring of power and network lines.
1446	Shield COM Group	Shield has not seen communication from the group network in 5 seconds.	Check wiring of power and network lines.
1447	Shield COM RPi	Shield has not seen communication from the DAD unit in 5 seconds.	Check wiring of power and network lines.
1448	Shield Failed Real Time Clock	Shield real time clock has failed.	Replace on board battery.
1449	Shield UART Overflow TX	Shield UART transmit buffer has overflowed.	Contact Smartrise support.
1450	Shield UART Overflow RX	Shield UART receive buffer has overflowed.	Contact Smartrise support.
1451	Shield CAN Overflow TX	Shield CAN transmit buffer has overflowed.	Contact Smartrise support.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1452	Shield CAN Overflow RX	Shield CAN receive buffer has overflowed.	Contact Smartrise support.
1453	Shield CAN Bus Reset	Shield has detected a CAN bus reset event.	Check wiring of power and network lines. Check that only the two CAN bus nodes furthest from each other have their termination jumpers set. All other CAN bus nodes on the network should have this jumper removed. Check that network lines are not routed by high current lines.
1454	VIP Timeout	VIP process has been cancelled due to excessive wait time.	To disable this alarm, set 01-0233 to OFF.
1455	Fire Virtual Remote Recall	Fire Phase 1 has been activated by Virtual Input Fire Remote Recall.	If this feature is not required, set 01-0235 to ON to disable virtual inputs.
1456	EMS2 Not At Recall	Car is on EMS Phase 2, in a dead zone with doors open, but cannot exit EMS 2 because it is not at the correct recall floor (the floor it was first called to on EMS Phase 1).	Either move car to the correct EMS Phase 1 recall floor or turn ON parameter EMS Exit Ph2 At Any FLR (01-0098) to allow exiting EMS Phase 2 at any floor.
1460	Invalid Buffer Speed	While attempting to do the Buffer test, Buffer speed is 0 or less than Learn Speed.	Set the SETUP | SPEEDS | Test Buffer Speed to equal or greater than the configured Learn Speed.
1461	Invalid Asc/Des Speed	While attempting to do Ascending Or Descending Overspeed test, ASC/DESC speed is 0 or less than Learn Speed.	Set the SETUP | SPEEDS | Test A/D Speed to equal or greater than the configured Learn Speed.
1462	CEDES1 COMM	Primary CEDES camera channel 1 reporting a communication error.	Check wiring and network termination.
1463	CEDES1 READ	Primary CEDES camera channel 1 reporting a cannot read tape error.	Clean camera window, clean tape, check alignment.
1464	CEDES1 CLOSE	Primary CEDES camera channel 1 reporting a tape too close error.	Fix tape alignment.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1465	CEDES1 FAR	Primary CEDES camera channel 1 reporting a tape too far error.	Fix tape alignment.
1466	CEDES1 LEFT	Primary CEDES camera channel 1 reporting a tape too far left error.	Fix tape alignment.
1467	CEDES1 RIGHT	Primary CEDES camera channel 1 reporting a tape too far right error.	Fix tape alignment.
1468	CEDES1 CONTRAST1	Primary CEDES camera channel 1 reporting a contrast - service recommended read status.	Clean camera window, clean tape, check alignment.
1469	CEDES1 CONTRAST2	Primary CEDES camera channel 1 reporting a contrast - warning read status.	Clean camera window, clean tape, check alignment.
1470	CEDES1 CONTRAST3	Primary CEDES camera channel 1 reporting a contrast - stopped read status.	Clean camera window, clean tape, check alignment.
1471	CEDES1 CRC	Primary CEDES camera channel 1 failed CRC check.	Check wiring and network termination.
1472	CEDES2 COMM	Primary CEDES camera channel 2 reporting a communication error.	Check wiring and network termination.
1473	CEDES2 READ	Primary CEDES camera channel 2 reporting a cannot read tape error.	Clean camera window, clean tape, check alignment.
1474	CEDES2 CLOSE	Primary CEDES camera channel 2 reporting a tape too close error.	Fix tape alignment.
1475	CEDES2 FAR	Primary CEDES camera channel 2 reporting a tape too far error.	Fix tape alignment.
1476	CEDES2 LEFT	Primary CEDES camera channel 2 reporting a tape too far left error.	Fix tape alignment.
1477	CEDES2 RIGHT	Primary CEDES camera channel 2 reporting a tape too far right error.	Fix tape alignment.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1478	CEDES2 CONTRAST1	Primary CEDES camera channel 2 reporting a contrast - service recommended read status.	Clean camera window, clean tape, check alignment.
1479	CEDES2 CONTRAST2	Primary CEDES camera channel 2 reporting a contrast - warning read status.	Clean camera window, clean tape, check alignment.
1480	CEDES2 CONTRAST3	Primary CEDES camera channel 2 reporting a contrast - stopped read status.	Clean camera window, clean tape, check alignment.
1481	CEDES2 CRC	Primary CEDES camera channel 2 failed CRC check.	Check wiring and network termination.
1482	CEDES3 COMM	ETSL CEDES camera channel 2 reporting a communication error.	Check wiring and network termination.
1483	CEDES3 READ	ETSL CEDES camera channel 2 reporting a cannot read tape error.	Clean camera window, clean tape, check alignment.
1484	CEDES3 CLOSE	ETSL CEDES camera channel 2 reporting a tape too close error.	Fix tape alignment.
1485	CEDES3 FAR	ETSL CEDES camera channel 2 reporting a tape too far error.	Fix tape alignment.
1486	CEDES3 LEFT	ETSL CEDES camera channel 2 reporting a tape too far left error.	Fix tape alignment.
1487	CEDES3 RIGHT	ETSL CEDES camera channel 2 reporting a tape too far right error.	Fix tape alignment.
1488	CEDES3 CONTRAST1	ETSL CEDES camera channel 2 reporting a contrast - service recommended read status.	Clean camera window, clean tape, check alignment.
1489	CEDES3 CONTRAST2	ETSL CEDES camera channel 2 reporting a contrast - warning read status.	Clean camera window, clean tape, check alignment.
1490	CEDES3 CONTRAST3	ETSL CEDES camera channel 2 reporting a contrast - stopped read status.	Clean camera window, clean tape, check alignment.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1491	CEDES3 CRC	ETSL CEDES camera channel 2 failed CRC check.	Check wiring and network termination.
1492	DAD Offline	DAD unit has stopped communicating with the C4 car for 15 seconds.	Check group network wiring. Check that power is supplied to the DAD unit.
1493	Soft Starter Offline	Communication lost with primary soft starter.	Check primary soft starter and wiring.
1494	Soft Starter Unknown	Primary soft starter reporting an unknown fault.	Check primary soft starter and wiring.
1495	Soft Starter POR RST	Primary soft starter recovering from a reset due to power off.	Check primary soft starter and wiring.
1496	Soft Starter WDT RST	Primary soft starter recovering from reset due to watchdog.	Check primary soft starter and wiring.
1497	Soft Starter Board RST	Primary soft starter recovering from reset due to voltage dip.	Check primary soft starter and wiring.
1498	Soft Starter Comm Loss	Primary soft starter reporting loss of communication with the controller.	Check primary soft starter and wiring.
1499	Soft Starter Overcurrent	Primary soft starter reporting an overcurrent error.	Check primary soft starter and wiring.
1500	Soft Starter Overvoltage	Primary soft starter reporting an overvoltage error.	Check primary soft starter and wiring.
1501	Soft Starter Undervoltage	Primary soft starter reporting an undervoltage error.	Check primary soft starter and wiring.
1502	Soft Starter Phase Missing	Primary soft starter reporting a missing phase.	Check primary soft starter and wiring.
1503	Soft Starter Phase Sequence	Primary soft starter reporting phase sequence error.	Check primary soft starter and wiring.
1504	Soft Starter CAN Bus RST	Primary soft starter reporting a CAN bus reset.	Check primary soft starter and wiring.
1505	Soft Starter Input Fault	Discrete input Fault 2 from the soft starter has been activated.	Check primary soft starter and wiring.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1506	Soft Starter 2 Offline	Communication lost with secondary soft starter.	Check secondary soft starter and wiring.
1507	Soft Starter 2 Unknown	Secondary soft starter reporting an unknown fault.	Check secondary soft starter and wiring.
1508	Soft Starter 2 POR RST	Secondary soft starter recovering from a reset due to power off.	Check secondary soft starter and wiring.
1509	Soft Starter 2 WDT RST	Secondary soft starter recovering from reset due to watchdog.	Check secondary soft starter and wiring.
1510	Soft Starter 2 Board RST	Secondary soft starter recovering from reset due to voltage dip.	Check secondary soft starter and wiring.
1511	Soft Starter 2 Comm Loss	Secondary soft starter reporting loss of communication with the controller.	Check secondary soft starter and wiring.
1512	Soft Starter 2 Overcurrent	Secondary soft starter reporting an overcurrent error.	Check secondary soft starter and wiring.
1513	Soft Starter 2 Overvoltage	Secondary soft starter reporting an overvoltage error.	Check secondary soft starter and wiring.
1514	Soft Starter 2 Undervoltage	Secondary soft starter reporting an undervoltage error.	Check secondary soft starter and wiring.
1515	Soft Starter 2 Phase Missing	Secondary soft starter reporting a missing phase.	Check secondary soft starter and wiring.
1516	Soft Starter 2 Phase Sequence	Secondary soft starter reporting phase sequence error.	Check secondary soft starter and wiring.
1517	Soft Starter 2 CAN Bus RST	Secondary soft starter reporting a CAN bus reset.	Check secondary soft starter and wiring.
1518	Soft Starter 2 Input Fault	Discrete input Fault 2 from the soft starter has been activated.	Check secondary soft starter and wiring.
1519	Soft Starter Address	Primary soft starter reporting another board on the network has the same address.	Check primary soft starter address DIP switches.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1520	Soft Starter 2 Address	Secondary soft starter reporting another board on the network has the same address.	Check secondary soft starter address DIP switches.
1521	Fire 2 Hold	If the car on Fire Phase 2 operation, and not at the recall floor. When the in car fire keyswitch is turned to the OFF position, the car will be put in a Fire Phase 2 Hold state if option Fire Phase 2 Exit Only At Recall Flr (01-0017) is ON.	Return the car to the recall floor before exiting Fire Phase 2.
1522	Recall Move	The car has attempted to move to a recall floor but failed to start movement within 5 seconds.	This is a diagnostic alarm. This alarm does not require immediate Smartrise support unless accompanied by other recall related issues for example, doors are being cycled or a door fault exists.
1523	Slowdown LRN T/O	The car has failed to slowdown to configured leveling speed during a slowdown learn within 10 seconds of cutting the high speed valve.	Check the car's leveling speed is not set above the controller’s leveling speed.
1524	LWD Unknown	LWD reporting an unknown error.	Check wiring of the serial load weighing device.
1525	LWD POR RST	Serial load weighing device reporting a powering on reset error.	Check serial load weighing power supply.
1526	LWD WDT RST	Serial load weighing device recovering from reset due to watchdog.	Contact Smartrise support.
1527	LWD Board RST	Serial load weighing device recovering from reset due to voltage dip.	Check serial load weighing device's power supply.
1528	LWD Comm System	Serial load weighing device reporting no communication with the controller detected.	Check wiring of serial load weighing device's CAN H and CAN L.

Alarm Number(s)	Code Description	Alarm Description	Resolution
1529	LWD Comm Load	Serial load weighing device reporting no communication detected with load cell processor.	Contact Smartrise support.
1530	LWD CAN Bus RST	Serial load weighing device reporting the CAN bus controller has reset.	Check wiring of serial load weighing device's CAN H and CAN L.
1531	LWD WD Disable	Serial load weighing device reporting the watchdog is disabled.	Check on board watchdog jumper.
1532	CAN1 Overflow MRA	The CAN1 buffer on MRA has overflowed.	Check CN1 +/- network wiring and termination.
1533	CAN1 Overflow CTA	The CAN1 buffer on CTA has overflowed.	Check CN1 +/- network wiring and termination.
1534	CAN1 Overflow COPA	The CAN1 buffer on COPA has overflowed.	Check CN1 +/- network wiring and termination.
1535	Normal Limit Reached	The car has reached the normal limits of either the bottom or top door zone.	Move the car away from the normal limit.

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