C4

PARAMETER LIST

VERSION 6.04

SMARTRISE

Date	Version	Summary of Changes
April 4, 2026	6.04	· Updated the default value for parameter 08-0278 (ELGO Frozen Count Offset) to 0.
December 20, 2025	6.03	· Reviewed parameters.
November 28, 2025	6.02	· Reviewed all parameters, regrouped, and rearranged them in alphabetical order. · Created new sections: Active Shooter, Fixtures, Group, Manual Mode, Traction, VIP, and Wander Guard Parameters. · Deleted the Discrete Hall Lanterns Parameters sections.
August 5, 2025	6.01	· Added the following parameters: · CE MDBA Destination Display, Latch Fault on DZ discrepancy, Enable CE Annunciator Vers 2, Mode Of Operation Generic Output under the Miscellaneous Parameters section. · Constant Pressure on DCB, DR Reopen Dwell Time 1s under the Door Parameters section. · Enable CC Cancel DR Dwell Time under the Car Call and Hall Call Parameters section. · CW Derail Blinks EQ Lamp under the Earthquake Parameters section. · ELGO Frozen Count Offset under the Landing System Parameters section. · Custom Floor IndexAndDwellTime 1s under the Floor Parameters section.
June 20, 2025	6.0	· Removed hydro parameters.
June 12, 2025	5.01	· Reviewed parameter 01-0018's description.
May 26, 2025	5.0	· Updated document template.
January 20, 2025	4.6	· Reviewed parameter 08-0123's description. · Added the "Open Rear Door on VIP" parameter under Door Parameters section. · Added the "Enable Rope Gripper Brake Board" parameter under Brake Parameters section. · Added the "Regen Enable On Delay Sec" parameter under Miscellaneous Parameters section. · Added the "Fire1 Recall To Flood Safe Floor", "Alt. Is Flood Safe Floor", and the "Enable Flood Limits On Inspection/Hoistway Access" parameters under the Flood Parameters section.
September 9, 2024	4.5	· Added the "IC Stop Switch Kills Doors On Non Emergency Modes" parameter under Door Parameters section. · Added the "Bypass In Car Stop when the car is on Fire Recall" parameter under Fire Parameters section. · Added the "Brake Double Pick Time" parameter under the Brake Parameters section. · Updated parameter 01-0019's name.
July 30, 2024	4.4	· Reviewed the description for the "Fire Stop Switch Kills DR Operator" parameter.

Date	Version	Summary of Changes
June 17, 2024	4.3	· Replaced “S-curve” with “Digital S-curve Technology ™ (U.S. Patent Pending)”.
May 27, 2024	4.2	· Added the “Keep Regen Output Active” parameter under the Miscellaneous Parameters section.
February 5, 2024	4.1	· Updated Document name to “C4 & HYDRO:EVOLVED PARAMETER LIST” · Updated Document Presentation. · Added the Custom Mode Parameters section. · Introduced additional parameters. · Reviewed existing parameters.
October 25, 2021	4.0	· Added additional parameters. · Removed Inspection Mode Parameters section.
November 4, 2020	3.0	· Changed how document was written from the type of adjustment to parameters that pertain to certain topics. · Added additional parameters. · Added additional tables. · Added Min Value column to all tables.
December 30, 2019	2.0	· Changed cover page. · New document formatting. · Added parameters to all sections. · Moved conversion chart to the new Appendix section.
March 28, 2019	1.0	· Initial Release

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1 Adjust Parameters

Parameters can be adjusted within a decimal range of 255 to 65,535. To assist with conversion, refer to the *Conversion Chart* in the Appendix to find the corresponding hexadecimal value required for the task.

2 Active Shooter Parameters

The table below lists Active Shooter parameters.

Table 1: Active Shooter Parameters

String	Number	Description	Min Value	Max Value	Default Value
Active Shooter Close Doors	01-0328	When set to ON , the lockdown feature is enabled on active shooter and therefore the doors stay closed and disabled on alternate floor.	0	1	0
Recall Floor on Active Shooter Plus 1	08-0270	When greater than zero, the car recalls to the floor equal to (value -1) set in this parameter, else it goes to the fire alternate floor.	0	255	0

3 Attendant Service Parameters

The table below lists Attendant Service parameters.

Table 2: Attendant Service Parameters

String	Number	Description	Min Value	Max Value	Default Value
ATTD Fire Recall Delay (1s)	08-0224	Sets the delay before beginning fire recall when the car is parked at floor on attendant or independent service. See A17.1-2016 2.27.5.2(a).	10	30	20
Attendant Buzzer Duration	08-0166	Specifies how long to sound the buzzer to alert the attendant that a hall call was pressed. Units are in 100 ms counts.	0	255	0
Attendant Byp. Security	01-0352	Ignores car call security when on Attendant service	0	1	0
Attendant Direction With CCB	01-0104	Pressing a car call button assigns direction when on Attendant Service. This can be used instead of dedicated UP and DOWN direction buttons on the COP panel.	0	1	0
Attendant Dispatch Timeout (1s)	08-0167	Sets the time the car has to respond to a destination assignment when on attendant service before it temporarily removes itself from group and the call is be reassigned. This prevents excessive delays in answering hall calls due to someone holding open the car door. If either the dispatch timeout (08-175) or dispatch offline (08-176) are set to zero, this feature is disabled. Units are in 1 second counts.	10	255	60
Attendant Service Use	01-0338	If enabled, the car will serve the normal and swing hall calls on the attendant mode (param overriden by 01-303)	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
Swing and Normal Mask					
Attendant Servie Use Only Swing Mask	01-0303	If enabled, the car will only serve the hall calls matching the swing mask in the attendant mode	0	1	0

4 Battery Back-Up/Emergency Power Parameters

The table below lists the Battery Back-Up/Emergency Power parameters.

Table 3: Battery Back-Up/Emergency Power Parameters

String	Number	Description	Min Value	Max Value	Default Value
Allow Inspection Movement on EP	01-0312	Allow car movement while a car is on Inspection during E-Power.	0	1	0
Auto Rescue Close Doors	01-0295	After Auto Rescue recall completes, close the doors after 15s.	0	1	0
Auto Rescue Close Doors Fire Only	01-0299	Used with AutoRescue_Close_Doors_on_Fire (01-0295), limited door closure to Fire Phase1 and Phase2. Mandatory starting A17.1 2007, also for California (E-10-01). If disabled, close the doors for all modes, still meeting A17.1	0	1	0
Auto Rescue Spd (fpm)	08-0143	Sets the max speed to use during auto rescue operation.	0	255	config
Auto Rescue Wait CC to Move Close on FF2 Off	01-0300	After Auto Rescue recall complete on ff1 or on ff2 with Fire_II_Off, close the doors after 15s. On ff2 with Fire_II_On, wait any car call to be pressed then recall to the closest floor and hold the door open. Required for A17.1 starting 2013	0	1	0
DISA E-Power	01-0127	When set to ON, the car will ignore emergency power commands.	0	1	0
DR Recall Time 1s	08-0000	Sets the time the doors remain open before closing after performing a recall on Fire phase 1. See A17.1 2007 and later, 2.27.3.1.6 (n)(3).	0	15	config
ENA Phase 1 EP Car Select	01-0275	Enable support for A17.1 2008-2019 Section 2.27.2.4.5 Emergency Power Fire Phase 1 Car Selection.	0	1	config
ENA Regen On EP	01-0157	When set ON, enables the regen when the car is running on emergency power. By default, when set to OFF, the DBR will used instead of the regen when running on emergency power.	0	1	config
EP Accel	08-0032	Sets the max acceleration rate used on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second squared counts. Note, this profile takes effect when the car is running on generator or battery power.	10	80	20

String	Number	Description	Min Value	Max Value	Default Value
EP Decel	08-0035	Sets the max deceleration rate used on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second squared counts. Note, this profile takes effect when the car is running on generator or battery power.	10	80	10
EP Jerk In Accel	08-0033	Sets starting rate of acceleration change on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second cubed counts. Note, this profile takes effect when the car is running on generator or battery power.	3	250	20
EP Jerk In Decel	08-0036	Sets the starting rate of deceleration change on E-Power profile runs. The E-Power run is used when on emergency power mode. Units are in 0.1 feet per second cubed counts. Note, this profile takes effect when the car is running on generator or battery power.	3	250	20
EP Jerk Out Accel	08-0034	Sets the rate of acceleration change when approaching max speed on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second cubed counts. Note, this profile takes effect when the car is running on generator or battery power.	3	250	20
EP Jerk Out Decel	08-0037	Sets the rate of deceleration change at the end of deceleration on E-Power profile runs. The E-Power run is used when on emergency power mode. Units are in 0.1 feet per second cubed counts. Note, this profile takes effect when the car is running on generator or battery power.	3	250	8
Epower Car Active On Inspection	01-0347	When enabled, the car on inspection is supposed online and counted as on normal mode from the budget of Epower	0	1	0
Epower Priority Car	08-0129	Sets the first car selected when on emergency power and the Auto Select input is active. NOTE: In Canada this is the fire car. Set to the index of the intended car.	0	7	0
EPower SPD fpm	16-0878	Sets the speed the car uses while in emergency power mode. Set to 10 fpm at minimum.	0	65535	10
EPWR DISA Fire1 Lamp	01-0267	When set to ON, in car fire lamp will behave as specified in the A17.1-2019 code. For A17.1-2019 the in car fire lamp should be suppressed when on fire phase 2, and the car is on emergency power but not selected to run. For A17.1-2010 the in car fire lamp should be suppressed when on fire and the car is not selected to run. A17.1-2.27.2.4.4 (b)	0	1	0
EPWR Pretransfer Stall	01-0166	When set to ON, if the emergency power Pretransfer input is active, cars stop in a faulted state wherever they are. When set to OFF, cars move to the nearest landing and go out of service with the door open. This option is used when system is wired to use Pretransfer input to	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
		delay cars both at the transfer into and out of emergency power.			
Group Priority	08-0144	Sets the start of run delay between energizing the motor and commanding nonzero speed. This timer is used when on automatic Battery Rescue operation. This time is set in 100 millisecond counts.	0	255	30
Group Priority	08-0145	Selects which group has priority during an Emergency Power event and organizes cars accordingly.	0	8	0
Idle Time Before Recall	08-0232	Epower Priviledged Car Idle Time Before Recall - Minutes	0	3	2
Low Battery Fire2 Run Limit	08-0251	When car is on Fire phase 2 travelling above the Recall fire floor and batterypower is triggered, the car Estops, then the value in this parameter will decide how many CCs the car will accept (CC will be always the floor below the floor it is at), then the car will return to the recall fire floor and fault out.	0	255	1
Maximum EP Group Cars	08-0230	Maximum number of cars that can run in all interconnected groups during Emergency Power operation.	0	255	config
Num EP Cars	08-0186	Sets the number of cars allowed to run during Emergency Power operation	1	8	1
Rec Trv Dir Timeout 50ms	08-0264	If the drive exceeds this timeout without giving any output to c4 controller about the recommended travel direction on battery rescue mode of oepration, the car will go to the nearest floor	0	255	220
Rescue Dir With Serial LWD	01-0281	When set to ON, a car on auto battery rescue will determine which direction to move using the pretorque value estimated by the C4 serial load weighing device. When set to OFF, the car will determine direction by discrete full load and light load signals (if 01-0105 is OFF) or the drive will determine the easiest direction (if 01-0105 is ON).	0	1	config
Rescue Rec Trv Dir	01-0105	Enables recommended travel direction check during automatic rescue operation	0	1	1

5 Brake Parameters

The table below lists the Brake parameters.

Table 4: Brake Parameters

String	Number	Description	Min Value	Max Value	Default Value
B Cont. NC	01-0180	When set to ON, both primary and secondary B contactor inputs (MBC and MB2C) are normally closed	0	1	1
B2 Drop Delay Auto (ms)	16-0893	Sets the stop sequence delay between dropping the secondary brake and dropping the B2 contactor while on automatic operation	0	65535	500

B2 Drop Delay Insp (ms)	16-0894	Sets the stop sequence delay between dropping the secondary brake and dropping the B2 contactor while on inspection operation	0	65535	500
BPS Stuck High Drops EBrake	01-0101	When set to ON, BPS stuck high fault drops Ebrake	0	1	0
BPS Stuck Low Drops EBrake	01-0336	When set to ON, BPS stuck low fault drops Ebrake (01-335 is a must).	0	1	0
BPS Timeout (100ms)	08-0149	Sets the timeout for primary BPS stuck active and stuck inactive faults (F189/F190). Minimum of 3 seconds.	0	255	0
BPS2 Timeout (100ms)	08-0150	Sets the timeout for secondary BPS stuck active and stuck inactive faults (F256/F257). Minimum of 3 seconds.	0	255	0
Brake Delay Primary 2 Secondary Pick	08-0244	Delay between Pick of Primary Brake to Pick of Secondary (Emergency) Brake Pick.	0	255	0
Brake Double Pick Time	01-0378	When enabled the pick time is sent in 20 ms unit not 10 ms so doubling the time	0	1	0
Brake Drop Delay Auto (ms)	16-0885	Sets the stop sequence delay between reaching zero speed and dropping the primary brake while on automatic operation	0	3000	0
Brake Drop Delay Insp (ms)	16-0886	Sets the stop sequence delay between reaching zero speed and dropping the primary brake while on inspection operation	0	3000	0
Brake Hold Voltage	08-0100	Sets the primary brake's DC hold voltage	30	255	config
Brake Pick Delay	08-0102	Sets the time the primary brake maintains the pick voltage. Units are in 10 ms counts.	0	255	150
Brake Pick Delay Auto (ms)	16-0881	Sets the start of run delay between picking the B2 contactor and picking the primary brake while on automatic operation. For rope gripper jobs, this is the delay between commanding zero speed and picking the brake.	0	65535	100
Brake Pick Delay Insp (ms)	16-0880	Sets the start of run delay between picking the B2 contactor and picking the primary brake while on inspection. For rope gripper jobs, this is the delay between commanding zero speed and picking the brake.	0	65535	100
Brake Pick Delay RLVL 10ms	08-0247	Sets the start of run delay between picking the B2 contactor and picking the primary brake when starting a releveling run. For rope gripper jobs, this is the delay between commanding zero speed and picking the brake. This timer is set in 10 millisecond counts.	0	255	10
Brake Pick Voltage	08-0099	Sets the primary brake's DC pick voltage	30	255	config
Brake Ramp Time Auto	08-0101	Sets the time it takes the primary brake to ramp up to pick voltage while in automatic operation. Units are in 10 ms counts.	0	255	20
Brake Ramp Time Inspection	08-0109	Sets the time it takes the primary brake to ramp up to pick voltage while in inspection operation. Units are in 10 ms counts.	0	255	20

Brake Ramp Time RLVL 10ms	08-0249	Sets the time it takes the primary brake to ramp up to pick voltage while performing a releveling run. This timer is set in 10 millisecond counts.	0	255	20
Brake Relevel Voltage	08-0103	Sets the primary brake's DC releveling voltage	0	255	config
Brake2 Ramp Time RLVL 10ms	08-0250	Sets the time it takes the secondary brake to ramp up to pick voltage while performing a releveling run. This timer is set in 10 millisecond counts.	0	255	20
DISA BPS Stop Seq	01-0111	Disables primary BPS check during the motion stop sequence. This parameter is set via SETUP | BRAKE SETUP | PRIMARY SETUP | BPS - STOP SEQ.	0	1	1
DISA BPS Stuck Active	01-0112	Disables primary BPS stuck picked check. This parameter is set via SETUP | BRAKE SETUP | PRIMARY SETUP | BPS - STUCK ACTIVE.	0	1	0
DISA BPS Stuck Inactive	01-0113	Disables primary BPS stuck dropped check. This parameter is set via SETUP | BRAKE SETUP | PRIMARY SETUP | BPS - STUCK INACTIVE.	0	1	0
DISA BPS2 Stuck Active	01-0162	Disables secondary BPS stuck picked check. This parameter is set via SETUP | BRAKE SETUP | SECONDARY SETUP | BPS - STUCK ACTIVE.	0	1	0
DISA BPS2 Stuck Inactive	01-0163	Disables secondary BPS stuck dropped check. This parameter is set via SETUP | BRAKE SETUP | SECONDARY SETUP | BPS - STUCK INACTIVE.	0	1	0
DISA Brake Faults	01-0044	Disables brake faults. This option should be left OFF and is for test purposes only.	0	1	0
DISA Brake Overheat	01-0117	When set to ON, brake overheat faults are suppressed.	0	1	0
DISA Latching Brake Flt	01-0170	When set to ON, primary and secondary brake's MOSFET fault is not latching. When set to OFF, the faults require resetting the MR board (F199 and F210).	0	1	0
EBrake Drop Delay Auto (ms)	16-0891	Sets the stop sequence delay between reaching zero speed and dropping the secondary brake while on automatic operation	1000	65535	1000
EBrake Drop Delay Insp (ms)	16-0892	Sets the stop sequence delay between reaching zero speed and dropping the secondary brake while on inspection operation	0	65535	0
EBrake on ETS/ETSL	01-0158	When set to ON, ETS and ETSL faults cause the rope gripper to drop.	0	1	0
EBrake On OVSP	01-0035	Enables dropping of the emergency brake for general overspeed faults. Enables the Latching General Overspeed fault (F65).	0	1	0
ENA Brake V2	01-0212	When set ON, brake network (MR SRU BN+/-) communication will be 125K baud CAN bus. When set to OFF, communication will be 25K baud. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	config
ENA Secondary Brake	01-0059	Enables use of a secondary brake instead of a rope gripper	0	1	config
Enable 2nd primary brake	01-0334	When set to ON, it enables second primary brake board when the secondary brake is disabled	0	1	0

Enable BPS Stuck Low Fault While Running	01-0335	When set to ON, the car will go to the next available landing and asserts fault BPS Stuck Low. When set to Off, the car will be faulted only when reaching the destination floor	0	1	0
Enable Rope Gripper Brake Board	01-0368	When enabled, the emergency brake (rope gripper) is controlled by brake board	0	1	0
Ext EBrake Drop 1m	08-0246	Alternative method for configuring how long after a run the emergency brake drops. This value is set in minutes. When set to 255, the EBrake will be kept picked constantly unless the car is faulted. When set to 0, this option is suppressed and parameters EBrakeDropDelay_Auto_1ms (16-0891) and EBrakeDropDelay_Insp_1ms (16-0892) are used instead. https://dev.azure.com/smartrise-us/C4%20Development/_workitems/edit/1923/	0	5	0
Primary BPS NC	01-0054	Changes the main brake's BPS input from a normally open to a normally closed contact	0	1	1
Resend Brake Timer	08-0126	Sets the minimum send rate of packets sent to brake boards. Units are in 5 ms counts.	30	150	50
Secondary BPS NC	01-0055	Changes the secondary brake's BPS input from a normally open to a normally closed contact	0	1	1
Secondary Brake Hold Voltage	08-0105	Sets the secondary brake's DC hold voltage	0	255	config
Secondary Brake Pick Delay	08-0107	Sets the time the secondary brake maintains the pick voltage. Units are in 10 ms counts.	0	255	150
Secondary Brake Pick Voltage	08-0104	Sets the secondary brake's DC pick voltage	0	255	config
Secondary Brake Ramp Time	08-0106	Sets the time it takes the secondary brake to ramp up to pick voltage. Units are in 10 ms counts.	0	255	20
Secondary Brake Relevel Voltage	08-0108	Sets the secondary brake's DC releveling voltage	0	255	config
Test Unintended Movement	01-0052	When set to ON with MR board DIP 8B also on, the car is ready for unintended movement testing. The secondary brake and B2 contactor automatically picks when this feature is activated and will remain picked until unintended movement is detected. While this mode is active, manually picking the B1 contactor commands the primary brake to pick.	0	1	0

6 Car Call and Hall Call Parameters

The table below lists the Car Call and Hall Call parameters.

Table 5: Car Call and Hall Call Parameters

String	Number	Description	Min Value	Max Value	Default Value
Access Code CCB Time (1s)	08-0138	Sets the time the user has to enter each CCB for access code. This timer will reset every time the user enters a CCB for access code.	0	255	5
AN Clr Reverse Dir CC	01-0232	When set to ON, car will clear out car calls entered in a direction opposite the car's current movement direction.	0	1	0
Attendant Direction With CCB	01-0104	Pressing a car call button assigns direction when on Attendant Service. This can be used instead of dedicated UP and DOWN direction buttons on the COP panel.	0	1	0
Auto Rescue Wait CC to Move Close on FF2 Off	01-0300	After Auto Rescue recall complete on ff1 or on ff2 with Fire_II_Off, close the doors after 15s. On ff2 with Fire_II_On, wait any car call to be pressed then recall to the closest floor and hold the door open. Required for A17.1 starting 2013	0	1	0
Auto Runs FLR To FLR F	01-0099	Enables automatic one floor front car call runs when on Enter Car Calls on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
Auto Runs FLR To FLR R	01-0077	Enables automatic one floor rear car call runs when on Enter Car Calls on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
Auto Runs Terminal To Terminal F	01-0074	Enables automatic front car call runs between terminal floors when on Enter Car Calls menu on the MR board display. This option should be left OFF and is for test purposes only.	0	1	0
Auto Runs Terminal To Terminal R	01-0056	Enables automatic rear car call runs between terminal floors when on Enter Car Calls menu on the MR board display. This option should be left OFF and is for test purposes only.	0	1	0
Car Call Enable Delay Sec	08-0271	Delay time between car call button and car call enable security key switch. In Seconds	0	255	0
Car To Lobby Express	01-0160	When the Car to Lobby input is asserted, the car stops answering hall calls. This parameter determines how it handles car calls. If this parameter is ON, the controller continues responding to car calls until none are left. The car then returns to the lobby. If this parameter is OFF, the car cancels any existing car calls and returns to the lobby floor immediately.	0	1	0
CC Acknowledge	01-0106	When set to ON, whenever a car call is placed, the CC Acknowledge output will be triggered. This is used in Canada for blind people.	0	1	0
CC Dir. Change (50ms)	08-0050	Sets the car call direction change delay. This delays the direction change after answering a car call to allow time for hall call assignment. Units are in 50 ms counts.	0	255	10

String	Number	Description	Min Value	Max Value	Default Value
CC Overrides the Door Hold Timer	01-0349	When enabled, the Hold timer will canceled in case registering car call or activating door close button	0	1	0
CCB Recent Press Timer (100ms)	08-0190	Sets the time the lamp output is lit after a car call button is pressed	0	255	2
Clear HC After Timeout On Custom Mode	01-0340	When enabled, The HC of the current floor on custom mode with Auto door open disabled will clear the HC after (08-269) if the door remains closed	0	1	0
Custom Mode Ignore Hall Call	01-0092	Configure custom mode to ignore hall calls during test	0	1	0
Custom Mode Ignored Car Call F	01-0090	Configure custom mode to ignore front car calls during test	0	1	0
Custom Mode Ignored Car Call R	01-0091	Configure custom mode to ignore rear car calls during test	0	1	0
Delay Between Calls Sec	08-0269	A delay before servicing latched Car Calls and Hall Calls. This was requested by a job where the Doors do not automatically open and user needs to activate the DOB button.	0	255	0
Dir. Change Delay (1s)	08-0189	Sets the time to delay car direction changes. Allows time for passengers to enter their car calls. Units are in 1 second counts.	0	30	3
En. Clear Car Call	01-0188	When set to ON, pressing the DC button and a latched car call button at the same time cancels the car call	0	1	0
ENA Latches CC	01-0133	When set to ON, car call enable latches a car call.	0	1	0
ENA Never Drop Hall Calls	01-0194	When set to ON, the car always maintains its HML (latchable hall call mask), even when the car is in a mode of operation that does not support hall calls.	0	1	0
Enable CC Cancel DR Dwell Time	01-0388	When enabled, if the door is opened, issuing a car call will override the door dwell time and immediately prioritize serving the call.	0	1	0
Enable first latched CC on EMS2	01-0327	Enable first single CC, and disables other on EMS2	0	1	0
Enable Single CC on VIP	01-0325	Enable single CC when VIP mode services car calls	0	1	0
HC Buzzer Activation during Door Hold	01-0350	When enabled, it triggers a buzzer if the door was on Hold and HC was entered on another floor	0	1	0
Ignore Calls When Car Not Empty on Alt Floor	01-0324	Ignore HC/CC on alternate recall floor when the car is not empty and in normal mode	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
Ignore Calls When Car Not Empty On Main Floor	01-0323	Ignore HC/CC on main recall floor when the car is not empty and in normal mode	0	1	0
Latch single CCs on non - collective mode	01-0308	When set to ON, only one CC is allowed to be latched on non-collective mode	0	1	0
Max Car Calls Light Load	08-0223	Number of Car Calls latched. In Light Load, if this limit is exceeded, all car calls are cleared as an anti-nuisance measure. If set to zero, this feature is disabled.	0	255	0
Max Car Calls Per 250lb	08-0204	Sets the max number of car calls that can be latched for every 250 lbs of in car weight. If this limit is exceeded, all car calls are cleared as an anti-nuisance measure. If set to zero, this feature is disabled.	0	255	0
Non collective mode	01-0306	When set to ON, enables "non-collective" hall calls. Once a hall call is latched, additional hall calls cannot be entered until car completes current demand.	0	1	0
Non-selective HC mode	01-0305	When set to ON, enables "non-selective", single-button hall calls. All hall calls should be wired as down calls.	0	1	0
Random Hall Runs	01-0114	Enables automatic hall call runs to random destinations when on the Enter Hall Calls menu on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
Run Random Runs F	01-0245	Enables automatic front car call runs to random destinations when on the Enter Car Calls menu on the MR board. If on the Enter Hall Calls menu, the car enters hall calls to random floors. This option should be left OFF and is for test purposes only.	0	1	0
Run Random Runs R	01-0110	Enables automatic rear car call runs to random destinations when on the Enter Car Calls menu on the MR board. If on the Enter Hall Calls menu, the car enters hall calls to random floors. This option should be left OFF and is for test purposes only.	0	1	0
Suppress Reopen On GSW	01-0191	When set to ON, reopening to hall calls are supressed when the doors have already opened at a level, both GSW signals are made, and there is demand	0	1	1
Test Runs Dwell Time	08-0172	Sets the dwell time used when testing the car using automatic call entry modes: Floor to floor (01-62) and random runs (01-114). Units are in seconds.	0	255	0
VIP Car Call Timer (1s)	08-0051	Sets the time in seconds allowed to place a car call after entering VIP mode with the doors fully open.	5	255	5
Vip Idle Time 1s	08-0242	Sets the time while on VIP from when the car completes all car calls to servicing VIP Hall Calls.	0	255	10
VIP_HC_ Transition Delay_50ms	08-0134	Sets the time between when a VIP car arrives at the VIP HC floor with its doors fully open, and when the car can begin taking CCs. This timer may need to be extended for jobsites where the VIP HC does not appear to clear. 50ms counts.	0	255	20

7 Comm Port Parameters

The table below lists the Comm Port parameters.

Table 6: Comm Port Parameters

String	Number	Description	Min Value	Max Value	Default Value
CPLD Offline Timeout 10ms	08-0173	Sets the timeout used when the CPLD offline alarms are enabled (01-135). Units are in 10 millisecond counts.	5	255	50
Debug KEB Baud Rate	08-0171	This is a test parameter for adjusting the rate of communication with KEB drives. If changes, the corresponding adjustment must also be made on the drive. Allowed values: 0 = 115.2 kbps1= 9.6 kbps2 = 19.2 kbps3 = 38.4 kbps4 = 55.5 kbps	0	255	0
DISA_CPLD_OVF_ALARM	01-0230	When set to ON, disables the CPLD overflow alarm.	0	1	0
ENA CPLD Offline	01-0135	When set to ON, communication from system CPLDs are monitored for timeout. The timeout will be determined by parameter 08-173.	0	1	0
ENA CPLD V3	01-0201	When set to ON, the uses hardware with CPLD v3_X software. When set to OFF, it uses hardware with CPLD v1_x software. System must be power cycled after changing this value.	0	1	config
ENA DL20 COP	01-0205	When set to ON, communication to DL-20 fixtures from the COP board is supported. Priority given to Janus emotive fixtures option (01-164). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	config
ENA DL20 CT	01-0204	When set to ON, communication to DL-20 fixtures from the CT board is supported. Priority given to Janus emotive fixtures option (01-164). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	config
ENA Dupar COP	01-0156	Enables communcation with Dupar COP	0	1	config
ENA Emergency Dispatch	01-0053	When set to ON, triggering communication loss on any Riser board's hall network causes the car to move into Sabbath mode until communication is restored.	0	1	0
ENA EX51 COP	01-0211	When set to ON, communication to EX-51 fixtures from the COP board is supported. Priority given to Janus emotive fixtures option (01-164).	0	1	config
ENA EX51 CT	01-0210	When set to ON, communication to EX-51 fixtures from CT board is supported. Priority given to Janus emotive fixtures option (01-164).	0	1	config
ENA Janus RS Fixture	01-0164	"Enables Janus RS485 fixtures on CT/COP boards.	0	1	config
Group Redundancy Check	01-0285	When set to ON, the controller will check if any communicating Riser Board has been offline for more than 10 seconds, in which it will then assert the Group	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
		Redundancy Output. Used for jobs that require Group Redundancy.			
Latch_CPLD_FLTS	01-0259	When set to ON, CPLD preflight failure and redundancy failure faults will remain latched until power is cycled to the car.	0	1	1
Transmit Run Log	01-0047	Enables transmission of run logs to the group network.	0	1	0
UM Redundancy Bypass	01-0353	Bypass uninenteded movement redundancy with CPLD.	0	1	0

8 COP Board Parameters

The table below lists the COP Board parameters.

Table 7: COP Board Parameters

String	Number	Description	Min Value	Max Value	Default Value
COP IN (1-16)	16-0024 through 16-0039	Set the COP board input terminal (1-16) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
COP OUT (1-16)	16-0416 through 16-0431	Set the COP board output terminal (1-16) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

9 CT Board Parameters

The table below lists the CT Board parameters.

Table 8: CT Board Parameters

String	Number	Description	Min Value	Max Value	Default Value
CT IN (1-16)	16-0008 through 16-0023	Set the CT board input terminal (1-16) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
CT OUT (1-16)	16-0400 through 16-0415	Set the CT board output terminal (1-16) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

10 Custom Mode Parameters

The table below lists the Custom Mode parameters.

Table 9: Custom Mode Parameters

String	Number	Description	Min Value	Max Value	Default Value
Clear HC After Timeout On Custom Mode	01-0340	When enabled, The HC of the current floor on custom mode with Auto door open disabled will clear the HC after (08-269) if the door remains closed	0	1	0
Custom Mode Ignore Car Call Security	01-0086	Configure custom mode to ignore all security car calls during test	0	1	0
Custom Mode Ignore Hall Call Security	01-0087	Configure custom mode to ignore all security hall calls during test	0	1	0
Custom Floor Index And Dwell Time 1s	16-1047	If the first 8 bits are set to nonzero, overrides the hall dwell time when at the custom floor. The custom floor is set by the second 8-bits of the parameter.	0	65535	0
Custom Mode Allowed Outside DR Zone	01-0088	Configure custom mode to allow outside door zone during test	0	1	0
Custom Mode Auto DR Open	01-0093	Configure custom mode to automatically open the door during test.	0	1	0
Custom Mode DR Hold	01-0094	Configure custom mode to hold the door during test.	0	1	0
Custom Mode Force Doors Open Or Closed	01-0096	Configure custom mode to allow for forcibly open or close doors during test.	0	1	0
Custom Mode Ignore DCB	01-0095	Configure custom mode to ignore door close buttons during test.	0	1	0
Custom Mode Ignore Hall Call	01-0092	Configure custom mode to ignore hall calls during test	0	1	0
Custom Mode Ignored Car Call F	01-0090	Configure custom mode to ignore front car calls during test	0	1	0
Custom Mode Ignored Car Call R	01-0091	Configure custom mode to ignore rear car calls during test	0	1	0
Custom Mode Parking Enabled	01-0089	Configure custom mode to enable parking during test	0	1	0
DOB Momentarily On Custom Mode	01-0345	The DCB is only constant pressure when 01-0096 is ON on custom mode while DOB is momentarily.	0	1	0
NC INPUT Custom Mode	01-0085	Configures custom mode of operation used for test	0	1	0

11 DAD Parameters

The table below lists the DAD parameters.

Table 10: DAD Parameters

String	Number	Description	Min Value	Max Value	Default Value
Disable Virtual Input	01-0235	When set ON, virtual inputs from the DAD unit will be ignored.	0	1	0
ENA DAD Flt Resend	01-0244	When set to ON, enables minimum resend of fault and alarm packets sent to the DAD unit. Should be turned OFF for some job sites running older DAD software with a bug causing multiple instances of the same fault/alarm event to appear in the logs.	0	1	1

12 Door Parameters

The table below lists the Door parameters.

Table 11: Door Parameters

String	Number	Description	Min Value	Max Value	Default Value
Access Dis. F Doors	01-0332	When set to ON, it disables front doors to have access code.	0	1	0
Access Dis. R Doors	01-0333	When set to ON, it disables rear doors to have access code.	0	1	0
Active Shooter Close Doors	01-0328	When set to ON , the lockdown feature is enabled on active shooter and therefore the doors stay closed and disabled on alternate floor.	0	1	0
AN Max Opens Without PHE	08-0141	Sets the max number of times that a car's doors can open without detecting a PHE transition. If this limit is exceeded, all car calls are cleared as an anti-nuisance measure. If set to zero, this feature is disabled.	0	255	0
At Recall Lamp Lobby Bypass DOL	01-0355	When enabled it will operate in conjunction with Parameter 01-0289. When both parameters are activated, the system should trigger the output (lamp at recall) upon the car reaching a specific landing that can be set through parameter 08-0122 (Car to lobby FLR) disregarding DOL.	0	1	0
At Recall Lamp Lobby DOL	01-0289	When set to ON, the At Recall output will assert when the car is at the lobby floor defined at 08-0122, and has the doors fully opened.	0	1	0
Auto Rescue Close Doors	01-0295	After Auto Rescue recall completes, close the doors after 15s.	0	1	0
Auto Rescue Close Doors Fire Only	01-0299	Used with AutoRescue_Close_Doors_on_Fire (01-0295), limited door closure to Fire Phase1 and Phase2. Mandatory starting A17.1 2007, also for California (E-10-01). If disabled, close the doors for all modes, still meeting A17.1	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
Automatic Freight Hall Door	01-0294	Set when an Automatic Hall Freight door is being used.	0	1	0
Buzzer Only On Nudge	01-0142	When set to ON, during nudging the NDG output is supressed and only the buzzer sounds.	0	1	0
Bypass GSW Check Distance	16-1044	Distance from floor level in which GSW check is bypassed in manual doors .Units are in 0.019 inch counts.	0	65535	0
CAM Output On Move	01-0250	When set to OFF, CAM will output when Car is in motion and not pre-opening. When set to ON, CAM will output when Car is outside Door Zone or in Motion.	0	1	0
CC Overrides the Door Hold Timer	01-0349	When enabled, the Hold timer will canceled in case registering car call or activating door close button	0	1	0
Close Door on EMS2	01-0292	When parameter is set, while car is on phase 2 close the door as soon as the car call is received. If the parameter is Off, after receiving the car call close the door with DCB to close the door.	0	1	0
Close door when PHE Bypassed on FF2	01-0307	When Set to ON, the door sends a close command instead of nudge if phe is byapssed on FF2	0	1	0
Constant Pressure on DCB	01-0383	When set to ON, the operator shall keep pressing on the DCB to force the door to close. Exculsively on normal mode.	0	1	0
Courion Fire1 Active	01-0046	When turned ON, the output Fire I Active will stay asserted during the entirety of Fire Phase 1 (This is required for Courion Door Operators). If turned OFF, the output Fire I Active will assert until the car has finished Fire Phase 1 Recalling (This is required for PEELE Door Operators).	0	1	0
CT ST SW Kills Doors	01-0115	When set to ON, door outputs are supressed when the Car Top Stop switch is active.	0	1	0
Custom Mode Auto DR Open	01-0093	Configure custom mode to automatically open the door during test.	0	1	0
Custom Mode DR Hold	01-0094	Configure custom mode to hold the door during test.	0	1	0
Custom Mode Force Doors Open Or Closed	01-0096	Configure custom mode to allow for forcibly open or close doors during test.	0	1	0
Custom Mode Ignore DCB	01-0095	Configure custom mode to ignore door close buttons during test.	0	1	0
DCB overrides PHE Test	01-0361	When enabled, DCB closes the door immediately without waiting for PHE test	0	1	0
Delay Between Calls Sec	08-0269	A delay before servicing latched Car Calls and Hall Calls. This was requested by a job where the Doors do not automatically open and user needs to activate the DOB button.	0	255	0

String	Number	Description	Min Value	Max Value	Default Value
Diff Front/Rear doors in EMS2 CCs	01-0297	When set to on, car calls in EMS2 differentiate between front and rear CCs. If set to off, both doors open after a CC.	0	1	0
DISA CAM ON HA	01-0240	When set to ON, disables the CAM output for the configured opening when performing a hoistway access top run or hoistway access bottom run.	0	1	0
DISA CLOSED CONTACTS DOB	01-0265	When set to OFF, if a closed contact is open the car will see this as a DOB press. When set to ON this reopening behavior is suppressed. This is required for the Peelle door operator which expects the car's DC command when the closed contacts are open.	0	1	config
DISA DCB ON NORMAL	01-0264	When set to ON, pressing the DC button while the car is on normal operation will not cancel the door dwell time.	0	1	0
DISA DOB Secured Flr or Ignored opening	01-0173	When set to ON, DOB is ignored for secured floors when the doors are fully closed or when the Car calls is ignored on a floor	0	1	0
DISA Door Jumper Check	01-0237	When set to ON, door jumper check will be disabled. This should be turned OFF to enable Door Lock Monitoring.	0	1	0
DISA Doors On HA	01-0118	When set to ON, door outputs on hoistway access inspection are supressed.	0	1	0
Disable Freight Door Buzzer for DO Modes	01-0288	When set on, disables the Freight Door Buzzer for Modes that Open the doors with zero dwell time. This does not disable the buzzer if the doors open with a Dwell time active or if the buzzer is needed during door closing.	0	1	0
Disable Rear DOB	01-0241	When set to ON, the rear DOB button will be disabled.	0	1	0
DO On Arrival Only	01-0255	For FRONT Doors - When set to ON, the Door Open output is activated on initial arrival at a landing. Once initial opening is complete, all open and close functions are done by DOB/DCB signals wired directly to the door operator. Set to ON for door operators from the company EMS, Courion, or Peelle (wired type). This parameter does not relate to the EMS (emergency medical service) mode of operation. Set this parameter if there is no PHE input defined for the door.	0	1	config
DO on Arrival Only R	01-0276	For REAR Doors - When set to ON, the Door Open output is activated on initial arrival at a landing. Once initial opening is complete, all open and close functions are done by DOB/DCB signals wired directly to the door operator. Set to ON for door operators from the company EMS, Courion, or Peelle (wired type). This parameter does not relate to the EMS (emergency medical service) mode of operation	0	1	config

String	Number	Description	Min Value	Max Value	Default Value
DOB Momentarily On Custom Mode	01-0345	The DCB is only constant pressure when 01-0096 is ON on custom mode while DOB is momentarily.	0	1	0
Door Check Time 100ms	08-0185	Sets the time the car doors must be seen as safe before the car is allowed to start a run in automatic operation. Time is set in 100 ms counts. If zero, defaults to 1 second.	0	255	3
Door Close Buzzer 100ms	08-0014	Sets the amount of time before doors begin to close that the door close buzzer will be turned ON. There is one buzzer output per door. This buzzer output remains on until doors are fully closed. This feature is used with the Peelle door operator.	0	255	50
Door Retiring CAM	01-0207	When set to ON, the CAM output controls hall interlocks. Otherwise, interlocks are controlled by the door operator. It is set to 0 when Mechanical retiring CAM is used instead of electrical CAM.	0	1	config
Door Type (F)	08-0012	Selects door type for Front doors • 0=Automatic (used when CarDoor & HallDoor are auto) • 1= Freight (used with Freight doors, CarDoor can be manual/auto, HallDoor must be manual) • 2=Manual (used when both doors are manual) • 3=Swing (used when HallDoor is Swing & CarDoor auto) Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	255	config
Door Type (R)	08-0013	Selects door type for Rear doors • 0=Automatic (used when CarDoor & HallDoor are auto) • 1= Freight (used with Freight doors, CarDoor can be manual/auto, HallDoor must be manual) • 2=Manual (used when both doors are manual) • 3=Swing (used when HallDoor is Swing & CarDoor auto) Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	255	config
DR DC On Closed State	01-0108	Activates door close output while doors are in a closed state. This parameter is set via SETUP | DOOR SETUP | DC ON CLOSE.	0	1	0
DR DC On Run	01-0076	Activates door close output when in motion.	0	1	0
DR DO On Opened State	01-0109	Activates door open output while doors are in a open state. This parameter is set via SETUP | DOOR SETUP | DO ON OPEN.	0	1	0
DR Dwell ADA Time 1s	08-0005	Sets the time car doors remain open when responding to ADA. The units are in seconds.	0	255	30
DR Dwell Hall Time 1s	08-0004	Sets the time car doors remain open when responding to hall calls. The units are in seconds.	0	255	6

String	Number	Description	Min Value	Max Value	Default Value
DR Dwell Hold Time 1s	08-0006	Sets the time car doors remain open when responding to door hold button requests. The units are in seconds.	0	255	0
DR Dwell Sabbath Time 1s	08-0007	Sets the time car doors remain open while in Sabbath operation. The units are in seconds.	0	255	3
DR Dwell Time 1s	08-0001	Sets the time car doors remain open when responding to car calls or open button requests. The units are in seconds.	0	255	3
DR Hourly Fault Limit	08-0148	Sets the number of door faults allowed within a 1-hour window before the car goes out of service. If the car goes out of service, it will remain out of service until the hour window elapses. If set to zero, there is no limit to the number of hourly door faults.	0	255	0
DR Jumper Timeout 100ms	08-0008	Sets the timer for jumper on Gate switch (F98/F107) and jumper on lock (F99/F108) faults. This value is added to a minimum timeout of 1.6 seconds. The units are in 100 millisecond counts.	0	255	0
DR Nudge Time 1s	08-0003	Sets the time doors will spend trying to close before transitioning to nudging which ignores photoeye. If set to zero, nudging is disabled. The units are in seconds.	0	255	20
DR Open OVSP Debounce Limit	08-0117	Sets the time the car must be in a door open overspeed state before a fault (F67 to F74) is flagged. The units are in 10 ms counts.	0	100	10
DR Opening Time (100ms)	08-0187	Sets the estimated time it takes the doors to go from fully closed to fully open. This value is learned after performing a run with preflight disabled (01-64) and the learn opening time bit on (01-165). This can help improve dwell time delays when preflight is on. If set to zero, this option is disabled.	0	255	0
DR Recall Time 1s	08-0000	Sets the time the doors remain open before closing after performing a recall on Fire phase 1. See A17.1 2007 and later, 2.27.3.1.6 (n)(3).	0	15	config
DR Reopen Dwell Time 1s	08-0276	Sets the time car doors remain open when the (PHE) is triggered while the doors are open, opening or closing. The units are in seconds.	0	255	0
DR Stuck Time 1s	08-0002	Sets the time limit for a door to complete an opening or closing request before faulting. The units are in seconds.	0	255	30
Drop Cam Outside DZ Idle Timer_1min	08-0253	When set to non-zero, if the car is outside of the DZ, idle, and in auto operation, the car will assert the CAM until this timer expires.	0	255	0
DZ Stuck High Test	01-0045	Testing of DZ stuck high software solution. When ON, checks CTA for position rather than MRA.	0	1	1
EMS Fire 1 Active	01-0119	When set to ON, the Fire 1 Active output will only fire when the car is on Fire Phase 1 and it is at the Recall floor. Required for EMS door operators for the Fire 1 Hold.	0	1	config
En. Clear Car Call	01-0188	When set to ON, pressing the DC button and a latched car call button at the same time cancels the car call	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
ENA AT400 DR	01-0120	When set to ON, doors are configured for AT400 door operators. Both DC and NDG outputs are active for door close. DC is active, and NDG is inactive for door nudge.	0	1	0
ENA Dual PHE Test	01-0189	Enables Dual PHE testing for freight doors	0	1	0
ENA FDR Auto Close	01-0050	Enable freight doors auto close.	0	1	0
ENA Freight Doors	01-0048	Enable freight doors. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	0
ENA Insp DO Out Of DZ	01-0151	Enables opening doors while outside of a door zone during inspection	0	1	0
ENA Open Doors Alarm	01-0159	Enables a system alarm signalling when gate switch and locks are open during a run (A629)	0	1	0
ENA Passing Lobby DO	01-0193	When set to ON, forces the car to stop and open its doors every time it passes the lobby floor. The lobby floor is the main fire recall floor.	0	1	0
ENA Rear Doors	01-0033	Enables rear doors if DIP 2B is turned on for the Machine Room (MR), Car Top (CT), and Car Operating Panel (COP) boards. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	config
Enable CC Cancel DR Dwell Time	01-0388	When enabled, if the door is opened, issuing a car call will override the door dwell time and immediately prioritize serving the call.	0	1	0
FDR Contacts Timeout 1s	08-0009	Sets the timeout between CAM being energized and closed contacts being made. If value is zero, timeout is set to 500 ms. The units are in seconds.	0	255	20
FDR GSW Locks Timeout 1s	08-0010	Sets the timeout between GSW and locks. If value is zero, timeout is set to 500 ms. The units are in seconds.	0	255	30
Fire Alt Use Rear DR	01-0001	Sets the door that opens after performing an alternate floor fire recall. Uses the rear door if set to ON.	0	1	config
Fire DISA DR Restrictor Phase2	01-0015	When set to ON, the door restrictor outputs are always turned OFF when the car is on Fire Phase 2.	0	1	config
Fire DOL To Exit Phase2	01-0020	The car's Door Open Limit input must be active to exit Phase 2	0	1	config
Fire DR Open On Hold	01-0029	Hold doors open when on Fire Phase 2 hold	0	1	config
Fire ENA PHE On Phase2	01-0028	Enables photo eye during Fire Phase 2	0	1	config
Fire Ignore Locks Jumped On Phase2	01-0018	Bypasses locks when on Fire Phase 2	0	1	config
Fire Main Use Rear DR	01-0000	Sets the door that opens after performing a main floor fire recall. Uses the rear door if set to ON.	0	1	config
Fire Momentary DCB	01-0025	When set to ON, when car is on fire phase 2 operation and the in car fire key switch is set to ON, pressing the	0	1	config

String	Number	Description	Min Value	Max Value	Default Value
		DCB just momentarily will cause the door to close. When set to OFF, the DCB must be held until the door reaches the fully closed state, or or the door will automatically reopen.			
Fire No DCL to Exit phase 2	01-0321	When the car needs to exit fire2 and recall to lobby, the door should not be closed	0	1	0
Fire Nudge with No Buzzer	01-0282	When set to ON, while on Fire Service, the car will not assert the buzzer when nudge command is asserted.	0	1	0
Fire or IC Stop Switch Kills DR	01-0019	Supress door outputs when Fire Stop Switch input is active. Also with this parameter ON, during fire recall, IC stop switch should stop doors from closing if activated before recall begins. Once recall starts, IC stop should be suppressed until the car reaches the recall floor and opens its doors.	0	1	config
Fire Phase2 Swing Reopen DISA	01-0016	"When set to ON, the car ignores the position of the swing door on Fire Phase 2. NOTE: Set ON mostly just in NYC	0	1	config
Fire1 DOB HC Enabled Dwell 1 min	01-0310	When set to ON, the Fire1 doors are cycled on recall, DOB and HC of recall floor after 1 min	0	1	0
Fire2 Cancel Button Reopen door	01-0317	When Fire II cancel button is pressed while car on fire recall floor, the doors reopen	0	1	0
Fire2 Close Door When No DOB	01-0319	Closes the door on fire2 ON when DOB is not pressed	0	1	0
Fire2 Swing Reopen	01-0221	When set ON, opening a swing hall closed contact will cause the doors to reopen.	0	1	0
Fixed Hall CAM	01-0208	When set to ON, the door has a fixed hall CAM. The car is allowed to start a run without hall locks (hall closed contacts still required). The car is allowed to move up to 2 feet without locks before faulting.	0	1	config
Freight Test PHE	01-0222	When set ON, if either door is set to Freight (08-0012 or 08-0013 set to 1) door requires photoeye testing prior to closing doors. When set to OFF and for non-freight doors, this check is bypassed. This feature is required for Peelle door operators.	0	1	config
Front Opening Map 0	32-0000	Front door opening map for floors 1 to 32. Edit via SETUP | FLOORS | OPENINGS (F). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Front Opening Map 1	32-0001	Front door opening map for floors 33 to 64. Edit via SETUP | FLOORS | OPENINGS (F). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Front Opening Map 2	32-0002	Front door opening map for floors 65 to 96. Edit via SETUP | FLOORS | OPENINGS (F).	0	42949 67295	config

String	Number	Description	Min Value	Max Value	Default Value
		Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).			
HA Bottom Opening	08-0098	When nonzero, configures the bottom hoistway access to use the rear opening	0	255	0
HA Top Opening	08-0097	When nonzero, configures the top hoistway access to use the rear opening	0	255	0
Hall Closed Req for CAM	01-0209	When set to ON, CAM does not energize if any hall door is open	0	1	config
HC Buzzer Activation during Door Hold	01-0350	When enabled, it triggers a buzzer if the door was on Hold and HC was entered on another floor	0	1	0
IC Stop Switch Kills Doors On Non Emergency Modes	01-0359	When enabled, the car kills the doors when ICSW is active on non emergency modes	0	1	0
Infinite Dwell Time	01-0256	For FRONT Doors - When set to ON, configured dwell time is bypassed and doors will remain open. Used for swing/freight doors where door control is handled by the door operator. (i.e. courion door operator or Peelle wired door operator).	0	1	config
Infinite Dwell Time R	01-0277	For REAR Doors - When set to ON, configured dwell time is bypassed and doors will remain open. Used for swing/freight doors where door control is handled by the door operator. (i.e. courion door operator or Peelle wired door operator).	0	1	config
Jumper On GSW_DOL	01-0279	When set to ON, jumper on gateswitch faults (F98 and F107) are triggered when the gateswitch input indicates doors are closed, but the door open limit input indicates the doors are open. When set to OFF, these faults are triggered when the gateswitch input indicates the doors are open, but the door close limit input indicates the doors are open.	0	1	0
Keep lights on DO	01-0316	Allows the lamp to turn ON while the door is open	0	1	1
Learn Opening Time	01-0165	When set to ON, if preflight is disabled (01-64), the car records the door opening time of its next run then stores it for use when preflight is enabled (08-187).	0	1	0
Lobby Dwell Time 1s	08-0011	If set to nonzero, overrides the hall dwell time when at the lobby floor. The lobby floor is the main fire recall floor (08-111).	0	255	0
Lock Clip Time (10 ms)	16-0876	Sets the debounce for lock and Gate switch open faults when the car is outside of door zone (see F163, F164, F165, F166, F167, F168, F169, F170). When set to zero, this timer defaults to 500ms. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	1	50	50

String	Number	Description	Min Value	Max Value	Default Value
Locks Jumped On DOL	01-0084	When set to ON, detects jumper on open DOL instead of GSW.	0	1	0
No Demand Doors Open	01-0134	When set to ON, car doors are held open when the car is idle.	0	1	0
Nudge Without Onward Demand	01-0238	When set to ON, the doors will begin to nudge (and the buzzer will fire if enabled) after a set time if the PHE is triggered and there is no command to move. Also, if the user would like the buzzer to fire whenever Nudge is commanded (even if there is no demand to move), turn this parameter ON.	0	1	config
OOS Rear Opening	01-0079	Sets which door to open when recalled on out-of-service mode. Uses the rear door when set to ON.	0	1	0
OOS Set DR Open	01-0081	Keeps door open when at floor in out of service mode.	0	1	0
Open Rear Door on VIP	01-0356	When enabled, in case there is a VIP call, the system should open both the front and rear doors.	0	1	0
Parking Opens Rear Door	01-0313	When set to ON, the rear door opens when the car reaches the parking floor	0	1	0
Parking With DR Open	01-0132	When set to ON, the door, based on 1-313 (On = rear / Off = front),is held open when the car is parked.	0	1	0
PreOpening Distance	16-0910	Sets the distance from a floor to start preopening doors. If zero, preopening is disabled. Units are in 0.019-inch counts.	0	131	26
Rear Opening Map 0	32-0004	Rear door opening map for floors 1 to 32. Edit via SETUP | FLOORS | OPENINGS (R). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Rear Opening Map 1	32-0005	Rear door opening map for floors 33 to 64. Edit via SETUP | FLOORS | OPENINGS (R). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Rear Opening Map 2	32-0006	Rear door opening map for floors 65 to 96. Edit via SETUP | FLOORS | OPENINGS (R). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Sabbath Nudge Doors	01-0242	When set to ON, doors Nudge instead of close during Sabbath.	0	1	1
Suppress Reopen On GSW	01-0191	When set to ON, reopening to hall calls are supressed when the doors have already opened at a level, both GSW signals are made, and there is demand	0	1	1
Swing Door Opening F 0	16-0946	Set which front openings are manual swing hall doors for landing 1-16. When each bit is set ON, and when "Door Type Select Front" (08-0012) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening F 1	16-0947	Set which front openings are manual swing hall doors for landing 17-32. When each bit is set ON, and when "Door	0	65535	config

String	Number	Description	Min Value	Max Value	Default Value
		Type Select Front" (08-0012) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.			
Swing Door Opening F 2	16-0948	Set which front openings are manual swing hall doors for landing 33-48. When each bit is set ON, and when "Door Type Select Front" (08-0012) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening F 3	16-0949	Set which front openings are manual swing hall doors for landing 49-64. When each bit is set ON, and when "Door Type Select Front" (08-0012) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening F 4	16-0950	Set which front openings are manual swing hall doors for landing 65-80. When each bit is set ON, and when "Door Type Select Front" (08-0012) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening F 5	16-0951	Set which front openings are manual swing hall doors for landing 81-96. When each bit is set ON, and when "Door Type Select Front" (08-0012) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening R 0	16-0952	Set which rear openings are manual swing hall doors for landing 1-16. When each bit is set ON, and when "Door Type Select Reart" (08-0013) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening R 1	16-0953	Set which rear openings are manual swing hall doors for landing 17-32. When each bit is set ON, and when "Door Type Select Reart" (08-0013) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening R 2	16-0954	Set which rear openings are manual swing hall doors for landing 33-48. When each bit is set ON, and when "Door Type Select Reart" (08-0013) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening R 3	16-0955	Set which rear openings are manual swing hall doors for landing 49-64. When each bit is set ON, and when "Door Type Select Reart" (08-0013) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Swing Door Opening R 4	16-0956	Set which rear openings are manual swing hall doors for landing 65-80. When each bit is set ON, and when "Door Type Select Reart" (08-0013) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config

String	Number	Description	Min Value	Max Value	Default Value
Swing Door Opening R 5	16-0957	Set which rear openings are manual swing hall doors for landing 81-96. When each bit is set ON, and when "Door Type Select Reart" (08-0013) is set to SWING (3). When a bit is OFF, that opening is assumed to have automatic hall doors.	0	65535	config
Timeout Lock and CAM (100ms)	08-0137	Sets the timeout which accounts for the delay between CAM activation and locks being made for manual doors. The units are in 100 ms counts. If set to zero, value defaults to 4 seconds.	0	255	40
WanderGuardMask0	32-0032	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 1 to 32.	0	42949 67295	0
WanderGuardMask1	32-0033	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 33 to 64.	0	42949 67295	0
WanderGuardMask2	32-0034	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 65 to 96.	0	42949 67295	0

13 Drive Parameters

The table below lists the Drive parameters.

Table 12: Drive Parameters

String	Number	Description	Min Value	Max Value	Default Value
Debug KEB Baud Rate	08-0171	This is a test parameter for adjusting the rate of communication with KEB drives. If changes, the corresponding adjustment must also be made on the drive. Allowed values: 0 = 115.2 kbps1= 9.6 kbps2 = 19.2 kbps3 = 38.4 kbps4 = 55.5 kbps	0	255	0
Debug Num Invalid Drive Packets	08-0191	When nonzero, the car alters the checksum of sequential messages to the drive. Bad packets are sent on the rising edge of the MR board DIP 2A. This is used for debugging purposes only.	0	255	0
DISA Auto Drive Reset	01-0058	Disables the automatic reset of drive faults	0	1	0
DISA Invert KEB SPD	01-0155	By default, the system automatically sets the polarity of KEB's encoder speed signal (which by default is always positive). When set to ON, this feature is disabled.	0	1	0
Drive Drop Delay Auto (ms)	16-0887	Sets the stop sequence delay between checking BPS and dropping drive control while on automatic operation.	0	65535	1200
Drive Drop Delay Insp (ms)	16-0888	Sets the stop sequence delay between checking BPS and dropping drive control while on inspection operation	0	65535	900

String	Number	Description	Min Value	Max Value	Default Value
Drive Resend Timer	08-0123	Sets the rate at which messages are sent to the drive. The units are in 5 ms counts for releases newer than 65xx and 10 ms counts for releases older than 65xx.	0	255	2
Drive Select	08-0130	Sets the drive type the system is configured with: 0 = HPV, 1 = KEB, 2 = DSD, 3 = M1000, 4 = AC Quattro	0	255	config
DSD Early Field ENA	01-0152	When set to ON, the DSD drive field is energized as soon as the doors begin closing. This reduces start of run delays for consecutive runs. For this feature, 01-121 must also be set ON.	0	1	0
DSD Pretorque Delay (50ms)	08-0188	Sets the pretorque assertion time prior to the start sequence. Only valid if DSD extended pretorque option is set (01-117). If set to zero, the value defaults to 200 ms.	0	255	4
ENA DSD Full Field	01-0121	When set to ON, full field is energized at the start of run instead of when the M contactor is picked. Setting this option reduces the time required to gain motor control.	0	1	0
ENA HPV Serial Outputs	01-0258	When set to ON, the HPV and M1000 drive outputs will be monitored serially. This option is for testing a new feature and will be removed in future versions.	0	1	0
ENA UI Drive Edit	01-0128	Enables editing of drive parameters from the MR board or the group's GUI	0	1	0
Motor Drop Delay Auto (ms)	16-0889	Sets the stop sequence delay between dropping drive control and dropping the M contactor while on automatic operation.	0	65535	500
Motor Drop Delay Insp (ms)	16-0890	Sets the stop sequence delay between dropping drive control and dropping the M contactor while on inspection operation.	0	65535	500
Rec Trv Dir Timeout 50ms	08-0264	If the drive exceeds this timeout without giving any output to c4 controller about the recommended travel direction on battery rescue mode of operation, the car will go to the nearest floor	0	255	220
Stop Seq DISA Hold Zero	01-0123	Disables stop sequence check for encoder speed to read below 1 fpm prior to dropping the brake. Turning this option OFF may increase floor level accuracy.	0	1	0
Stop Seq DISA Ramp Zero	01-0122	Disables ramping down command speed from leveling speed to 1 fpm prior to dropping a run. This option must be OFF for KEB drives.	0	1	0
Test Trc Loss	01-0154	When set to ON, the drive's encoder speed is suppressed. This allows the traction loss fault to be artificially tripped.	0	1	0

14 Earthquake Parameters

The table below lists the Earthquake parameters.

Table 13: Earthquake Parameters

String	Number	Description	Min Value	Max Value	Default Value
CW Derail Blinks EQ Lamp	01-0397	When enabled, on CW derail, the EQ lamp output illuminates intermittently.	0	1	0
CW Derail NO	01-0198	When set to ON, CW derail inputs are normally open.	0	1	0
ENA EQ	01-0042	Enables seismic and counter weight derail modes of operation	0	1	0
EQ Buzz only on DOL	01-0298	If this parameter is ON, it will override EQ_BuzzUntilSafe (01-287) and allow the buzzer to turn ON in Seismic or CW Derail only when doors are open. If set to 0, this parameter will not affect the system.	0	1	0
EQ Buzz Until Safe	01-0287	When set to ON, if EQ_Buzzer (01-0246) is also set to ON, the buzzer will fire when the car goes into Seismic or CW Derail. The buzzer will stop when the car has succesfully recalled to a floor and fully opened the doors.	0	1	0
EQ Buzzer	01-0246	Turns the Auto Operation Buzzer on if on Seismic.	0	1	0
EQ Hoistway Scan Speed	08-0225	Sets the speed used during EQ Hoistway Scan.	10	150	75
EQ Old Job Support	01-0239	When set to ON, EQ lamp will not follow code 8.4.10.1(f) in order to support older jobs	0	1	0

15 EMS Parameters

The table below lists the EMS parameters.

Table 14: EMS Parameters

String	Number	Description	Min Value	Max Value	Default Value
Allow Shunt Trip on EMS	01-0343	When enabled, the shunt trip is enabled on EMS	0	1	0
Close Door on EMS2	01-0292	When parameter is set, while car is on phase 2 close the door as soon as the car call is received. If the parameter is Off, after receiving the car call close the door with DCB to close the door.	0	1	0
Diff Front/Rear doors in EMS2 CCs	01-0297	When set to on, car calls in EMS2 differentiate between front and rear CCs. If set to off, both doors open after a CC.	0	1	0
DISA BYP IC Stop	01-0040	When set to ON, bypassing of IC stop switch is disabled. When set to OFF IC stop switch is bypassed during fire 2 recall, fire phase 1 recall, or ems phase 1 recall. For jobs that are compliant with A17.1-2016 code.	0	1	config
EMS Allow Ph2 Without Ph1	01-0097	Allows activation of Medical Phase 2 even if the car was never placed on Phase 1	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
EMS Exit Ph2 At Any FLR	01-0098	Allows exiting of EMS Phase 2 at any floor. Jobs with full hospital service should have this parameter turned ON. Jobs with EMT service should have this parameter OFF.	0	1	0
EMS1 Exit Delay	08-0163	When a car is called to a landing by an EMS Phase 1 key, this parameter specifies how long it will remain there before returning to normal operation if no one places it on EMS Phase 2. Units are in seconds.	30	255	60
EMS1 Recall floor	08-0272	A predefined floor, when the EMS 1 service is activated via a key switch (enIN_MA_EMS1)	0	255	0
EMS2 Exit Delay	08-0164	Specifies how long to wait after exiting EMS Phase 2 before returning to normal operation. A programmable delay allows time for the patient to be removed from the elevator if EMS Phase 2 were turned off prior to removing the patient. Units are in seconds.	0	255	1
Enable first latched CC on EMS2	01-0327	Enable first single CC, and disables other on EMS2	0	1	0
Fire Overrides EMS Ph1	01-0100	When set to ON, the activation of a smoke or Fire Phase 1 key causes a car that is currently on EMS Phase 1 to exit medical service and go on Fire Phase 1 recall. When turned OFF, the car remains on EMS Phase 1.	0	1	0
Fire Overrides EMS Ph2	01-0051	If turned ON, Fire Service will take priority over EMS2.	0	1	0

16 Expansion Board Parameters

The table below lists the Expansion Board parameters.

Table 15: Expansion Board Parameters

String	Number	Description	Min Value	Max Value	Default Value
Exp 24 Inputs Bitmap 0	32-0029	Sets the index of 24 inputs board on the first 32 expansions	0	42949 67295	config
EXP01 IN (1-8)	16-0072 through 16-0079	Set the Expansion1 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP02 IN (1-8)	16-0080 through 16-0087	Set the Expansion2 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP03 IN (1-8)	16-0088 through 16-0095	Set the Expansion3 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
EXP04 IN (1-8)	16-0096 through 16-0103	Set the Expansion4 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP05 IN (1-8)	16-0104 through 16-0111	Set the Expansion5 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP06 IN (1-8)	16-0112 through 16-0119	Set the Expansion6 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP07 IN (1-8)	16-0120 through 16-0127	Set the Expansion7 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP08 IN (1-8)	16-0128 through 16-0135	Set the Expansion8 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP09 IN (1-8)	16-0136 through 16-0143	Set the Expansion9 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP10 IN (1-8)	16-0144 through 16-0151	Set the Expansion10 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP11 IN (1-8)	16-0152 through 16 0159	Set the Expansion11 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP12 IN (1-8)	16-0160 through 16-0167	Set the Expansion12 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP13 IN (1-8)	16-0168 through 16-0175	Set the Expansion13 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
		permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.			
EXP14 IN (1-8)	16-0176 through 16-0183	Set the Expansion14 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP15 IN (1-8)	16-0184 through 16-0191	Set the Expansion15 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP16 IN (1-8)	16-0192 through 16-0199	Set the Expansion16 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP17 IN (1-8)	16-0200 through 16-0207	Set the Expansion17 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP18 IN (1-8)	16-0208 through 16-0215	Set the Expansion18 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP19 IN (1-8)	16-0216 through 16-0223	Set the Expansion19 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP20 IN (1-8)	16-0224 through 16-0231	Set the Expansion20 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP21 IN (1-8)	16-0232 through 16-0239	Set the Expansion21 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP22 IN (1-8)	16-0240 through 16-0247	Set the Expansion22 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
EXP23 IN (1-8)	16-0248 through 16-0255	Set the Expansion23 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP24 IN (1-8)	16-0256 through 16-0263	Set the Expansion24 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP25 IN (1-8)	16-0264 through 16-0271	Set the Expansion25 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP26 IN (1-8)	16-0272 through 16-0279	Set the Expansion26 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP27 IN (1-8)	16-0280 through 16-0287	Set the Expansion27 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP28 IN (1-8)	16-0288 through 16-0295	Set the Expansion28 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP29 IN (1-8)	16-0296 through 16-0303	Set the Expansion29 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP30 IN (1-8)	16-0304 through 16-0311	Set the Expansion30 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP31 IN (1-8)	16-0312 through 16-0319	Set the Expansion31 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP32 IN (1-8)	16-0320 through 16-0327	Set the Expansion32 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
		permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.			
EXP33 IN (1-8)	16-0328 through 16-0335	Set the Expansion33 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP34 IN (1-8)	16-0336 through 16-0343	Set the Expansion34 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP35 IN (1-8)	16-0344 through 16-0351	Set the Expansion35 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP36 IN (1-8)	16-0352 through 16-0359	Set the Expansion36 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP37 IN (1-8)	16-0360 through 16-0367	Set the Expansion37 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP38 IN (1-8)	16-0368 through 16-0375	Set the Expansion38 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP39 IN (1-8)	16-0376 through 16-0383	Set the Expansion39 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP40 IN (1-8)	16-0384 through 16-0391	Set the Expansion40 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
EXP01 OUT (1-8)	16-0464 through 16-0471	Set the Expansion1 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
EXP02 OUT (1-8)	16-0472 through 16-0479	Set the Expansion2 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP03 OUT (1-8)	16-0480 through 16-0487	Set the Expansion3 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP04 OUT (1-8)	16-0488 through 16-0495	Set the Expansion4 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP05 OUT (1-8)	16-0496 through 16-0503	Set the Expansion5 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP06 OUT (1-8)	16-0504 through 16-0511	Set the Expansion6 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP07 OUT (1-8)	16-0512 through 16-0519	Set the Expansion7 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP08 OUT (1-8)	16-0520 through 16-0527	Set the Expansion8 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP09 OUT (1-8)	16-0528 through 16-0535	Set the Expansion9 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP10 OUT (1-8)	16-0536 through 16-0543	Set the Expansion10 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP11 OUT (1-8)	16-0544 through 16-0551	Set the Expansion11 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP12 OUT (1-8)	16-0552 through 16-0559	Set the Expansion12 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP13 OUT (1-8)	16-0560 through 16-0567	Set the Expansion13 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
EXP14 OUT (1-8)	16-0568 through 16-0575	Set the Expansion14 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP15 OUT (1-8)	16-0576 through 16-0583	Set the Expansion15 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP16 OUT (1-8)	16-0584 through 16-0591	Set the Expansion16 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP17 OUT (1-8)	16-0592 through 16-0599	Set the Expansion17 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP18 OUT (1-8)	16-0600 through 16-0607	Set the Expansion18 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP19 OUT (1-8)	16-0608 through 16-0615	Set the Expansion19 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP20 OUT (1-8)	16-0616 through 16-0623	Set the Expansion20 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP21 OUT (1-8)	16-0624 through 16-0631	Set the Expansion21 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP22 OUT (1-8)	16-0632 through 16-0639	Set the Expansion22 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP23 OUT (1-8)	16-0640 through 16-0647	Set the Expansion23 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP24 OUT (1-8)	16-0648 through 16-0655	Set the Expansion24 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP25 OUT (1-8)	16-0656 through 16-0663	Set the Expansion25 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
EXP26 OUT (1-8)	16-0664 through 16-0671	Set the Expansion26 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP27 OUT (1-8)	16-0672 through 16-0679	Set the Expansion27 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP28 OUT (1-8)	16-0680 through 16-0687	Set the Expansion28 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP29 OUT (1-8)	16-0688 through 16-0695	Set the Expansion29 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP30 OUT (1-8)	16-0696 through 16-0703	Set the Expansion30 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP31 OUT (1-8)	16-0704 through 16-0711	Set the Expansion31 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP32 OUT (1-8)	16-0712 through 16-0719	Set the Expansion32 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP33 OUT (1-8)	16-0720 through 16-0727	Set the Expansion33 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP34 OUT (1-8)	16-0728 through 16-0735	Set the Expansion34 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP35 OUT (1-8)	16-0736 through 16-0743	Set the Expansion35 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP36 OUT (1-8)	16-0744 through 16-0751	Set the Expansion36 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP37 OUT (1-8)	16-0752 through 16-0759	Set the Expansion37 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
EXP38 OUT (1-8)	16-0760 through 16-0767	Set the Expansion38 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP39 OUT (1-8)	16-0768 through 16-0775	Set the Expansion39 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
EXP40 OUT (1-8)	16-0776 through 16-0783	Set the Expansion40 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

17 Fire Parameters

The table below lists the Fire parameters.

Table 16: Fire Parameters

String	Number	Description	Min Value	Max Value	Default Value
Allow Shunt Trip on EMS	01-0343	When enabled, the shunt trip is enabled on EMS	0	1	0
Allow Shunt Trip on Fire I Alternate Landing	01-0342	When enabled, the shunt trip is enabled on Fire1 alternate floor	0	1	0
Allow Shunt Trip on Inspection mode	01-0341	When enabled, the shunt trip is enabled on inspection	0	1	0
Alt. Is Flood Safe Floor	01-0375	When enabled, alternate floor should be a flood safe floor, otherwise fault F337 "Inv. Fire Alt" will be generated	0	1	0
ATTD Fire Recall Delay (1s)	08-0224	Sets the delay before beginning fire recall when the car is parked at floor on attendant or independent service. See A17.1-2016 2.27.5.2(a).	10	30	20
Auto Rescue Close Doors Fire Only	01-0299	Used with AutoRescue_Close_Doors_on_Fire (01-0295), limited door closure to Fire Phase1 and Phase2. Mandatory starting A17.1 2007, also for California (E-10-01). If disabled, close the doors for all modes, still meeting A17.1	0	1	0
Auto Rescue Wait CC to Move Close on FF2 Off	01-0300	After Auto Rescue recall complete on ff1 or on ff2 with Fire_II_Off, close the doors after 15s. On ff2 with Fire_II_On, wait any car call to be pressed then recall to the closest floor and hold the door open. Required for A17.1 starting 2013	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
BYP Fire Srv	01-0131	When set to ON, bypasses fire service when DIP 6B on the MR board is also on. Bypassing fire service also clears any saved fire states.	0	1	0
Bypass In Car Stop when the car is on Fire Recall	01-0377	When enabled, car will ignore the in-car stop switch, when in Fire Recall mode as required in A17 2004.	0	1	0
Close door when PHE Bypassed on FF2	01-0307	When Set to ON, the door sends a close command instead of nudge if phe is byapssed on FF2	0	1	0
Courion Fire1 Active	01-0046	When turned ON, the output Fire I Active will stay asserted during the entirety of Fire Phase 1 (This is required for Courion Door Operators). If turned OFF, the output Fire I Active will assert until the car has finished Fire Phase 1 Recalling (This is required for PEELE Door Operators).	0	1	0
DISA BYP IC Stop	01-0040	When set to ON, bypassing of IC stop switch is disabled. When set to OFF IC stop switch is bypassed during fire 2 recall, fire phase 1 recall, or ems phase 1 recall. For jobs that are compliant with A17.1-2016 code.	0	1	config
DR Recall Time 1s	08-0000	Sets the time the doors remain open before closing after performing a recall on Fire phase 1. See A17.1 2007 and later, 2.27.3.1.6 (n)(3).	0	15	config
EMS Fire 1 Active	01-0119	When set to ON, the Fire 1 Active output will only fire when the car is on Fire Phase 1 and it is at the Recall floor. Required for EMS door operators for the Fire 1 Hold.	0	1	config
ENA Phase 1 EP Car Select	01-0275	Enable support for A17.1 2008-2019 Section 2.27.2.4.5 Emergency Power Fire Phase 1 Car Selection.	0	1	config
Enable Alt MR	01-0181	When set to ON, the car looks for alternate MR and HA Smoke inputs. Used for groups split between two physical machine rooms.	0	1	config
EPWR DISA Fire1 Lamp	01-0267	When set to ON, in car fire lamp will behave as specified in the A17.1-2019 code. For A17.1-2019 the in car fire lamp should be suppressed when on fire phase 2, and the car is on emergency power but not selected to run. For A17.1-2010 the in car fire lamp should be suppressed when on fire and the car is not selected to run. A17.1-2.27.2.4.4 (b)	0	1	0
Extinguish Fire Lamp On Special Operations	01-0344	When enabled, the fire lamp is extinguished on low oil, motor overheat and battery rescue modes of operation	0	1	0
Fire 2 Active Always On During FP2	01-0290	When set to ON, the output Fire II Active will assert whenever the car is on Fire Phase 2. Upon transitioning from Fire Phase 2 to Fire Phase 1, Fire II Active will drop, and Fire 1 Active will assert. This is used for non-peele	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
		non-automatic doors that require Fire 1 Active and Fire 2 Active to control the door operation during Fire.			
Fire Allow Reset With Active Smoke	01-0023	Allows Fire Phase 1 reset with active smokes	0	1	config
Fire Alt Flash Fire Hat	01-0007	Flashes the fire hat output when the Alternate Smoke input is active	0	1	config
Fire Alt Shunt On Recall	01-0011	Activates fire shunt output during Phase 1 recall if triggered by Alternate Smoke input	0	1	config
Fire Alt Use Alt FLR	01-0003	Sets which recall floor to use when the smoke sensor located at the alternate recall floor is activated. Uses the alternate floor if set to ON.	0	1	config
Fire Alt Use Rear DR	01-0001	Sets the door that opens after performing an alternate floor fire recall. Uses the rear door if set to ON.	0	1	config
Fire Alternate Recall FLR	08-0112	Sets the alternate fire recall floor. This value is zero - based, so the bottom most floor is zero.	0	255	config
Fire DISA DR Restrictor Phase2	01-0015	When set to ON, the door restrictor outputs are always turned OFF when the car is on Fire Phase 2.	0	1	config
Fire DISA Latch Lobby Key	01-0228	When set to OFF, the controller latches the lobby key as the recall source until the key is turned from RESET to OFF. If set to ON, Fire Phase 1 is constantly reassessed when the recall source is the lobby key.	0	1	config
Fire DISA Latch Main Recall	01-0229	When set to OFF, if the car ever recalls to the main fire recalls floor, then it can't recall to the alternate floor until fire service has been reset. This is required by 2016 code.	0	1	config
Fire DISA Latch Smokes	01-0227	When set to OFF, the controller will remember the first smoke input it saw tripped until you exit fire service. The smoke will be remembered even across a power cycle. Most jobs except NYC will require this. This parameter is usually off for any controller that has a lobby fire key switch with a RESET position.	0	1	config
Fire DOL To Exit Phase2	01-0020	The car's Door Open Limit input must be active to exit Phase 2	0	1	config
Fire DR Open On Hold	01-0029	Hold doors open when on Fire Phase 2 hold	0	1	config
Fire ENA PHE On Phase2	01-0028	Enables photo eye during Fire Phase 2	0	1	config
Fire Exit Ph2 Without Ph1 Rcl	01-0268	When set to ON, if the car is on fire phase 2, and fire phase 1 has been cleared via keyswitch, when the car is taken off fire phase 2, it will not attempt to return to the fire recall floor before exiting phase 1, instead it will return directly to normal operation. The car will also only exit fire phase 2 at the main recall floor. For addressing A17.1 2000, Florida testing procedures, https://dev.azure.com/smartrise-us/C4%20Development/_workitems/edit/1843. When	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
		set to off, the car will return to the fire recall floor before returning to normal operation.			
Fire Flash Lobby Lamp	01-0026	Enables flashing of the lobby fire lamp output	0	1	config
Fire Hat Flash Ignore Order	01-0024	Flashes fire hat for any active smoke. If OFF, only the first active smoke is checked.	0	1	config
Fire HW 2 Flash Fire Hat	01-0183	Flashes the fire hat output when the Hoistway 2 Smoke input is active	0	1	config
Fire HW 2 Shunt On Recall	01-0187	Activates Fire Shunt output during Phase 1 recall if triggered by Hoistway 2 Smoke input	0	1	config
Fire HW 2 Use Alt FLR	01-0185	Sets which recall floor to use when the Hoistway 2 Smoke input is active. Uses the alternate floor if set to ON.	0	1	config
Fire HW Flash Fire Hat	01-0009	Flashes the fire hat output when the Hoistway Smoke input is active	0	1	config
Fire HW Shunt On Recall	01-0013	Activates fire shunt output during Phase 1 recall if triggered by Hoistway Smoke input	0	1	config
Fire HW Use Alt FLR	01-0005	Sets which recall floor to use when the smoke sensor located in the hoistway is activated. Uses the alternate floor if set to ON.	0	1	config
Fire Ignore Locks Jumped On Phase2	01-0018	Bypasses locks when on Fire Phase 2	0	1	config
Fire Key Flash Fire Hat	01-0200	Flashes the fire hat output when the fire recall key is active	0	1	config
Fire Main Flash Fire Hat	01-0006	Flashes the fire hat output when the Main Smoke input is active	0	1	config
Fire Main Recall FLR	08-0111	Sets the main fire recall floor. This value is zero -based, so the bottom most floor is zero.	0	255	config
Fire Main Shunt On Recall	01-0010	Activates fire shunt output during Phase 1 recall if triggered by Main Smoke input	0	1	config
Fire MAIN Use Alt FLR	01-0002	Sets which recall floor to use when the smoke sensor located at the main recall floor is activated. Uses the alternate floor if set to ON.	0	1	config
Fire Main Use Rear DR	01-0000	Sets the door that opens after performing a main floor fire recall. Uses the rear door if set to ON.	0	1	config
Fire Momentary DCB	01-0025	When set to ON, when car is on fire phase 2 operation and the in car fire key switch is set to ON, pressing the DCB just momentarily will cause the door to close. When set to OFF, the DCB must be held until the door reaches the fully closed state, or or the door will automatically reopen.	0	1	config
Fire MR 2 Flash Fire Hat	01-0182	Flashes the fire hat output when the Machine Room 2 Smoke input is active	0	1	config
Fire MR 2 Shunt On Recall	01-0186	Activates Fire Shunt output during Phase 1 recall if triggered by Machine Room 2 Smoke input	0	1	config

String	Number	Description	Min Value	Max Value	Default Value
Fire MR 2 Use Alt FLR	01-0184	Sets which recall floor to use when the Machine Room 2 Smoke input is active. Uses the alternate floor if set to ON.	0	1	config
Fire MR Flash Fire Hat	01-0008	Flashes the fire hat output when the Machine Room Smoke input is active	0	1	config
Fire MR Shunt On Recall	01-0012	Activates fire shunt output during Phase 1 recall if triggered by Machine Room Smoke input	0	1	config
Fire MR Use Alt FLR	01-0004	Sets which recall floor to use when the smoke sensor located in the machine room is activated. Uses the alternate floor if set to ON.	0	1	config
Fire No DCL to Exit phase 2	01-0321	When the car needs to exit fire2 and recall to lobby, the door should not be closed	0	1	0
Fire Nudge with No Buzzer	01-0282	When set to ON, while on Fire Service, the car will not assert the buzzer when nudge command is asserted.	0	1	0
Fire or IC Stop Switch Kills DR	01-0019	Supress door outputs when Fire Stop Switch input is active. Also with this parameter ON, during fire recall, IC stop switch should stop doors from closing if activated before recall begins. Once recall starts, IC stop should be suppressed until the car reaches the recall floor and opens its doors.	0	1	config
Fire Overrides EMS Ph1	01-0100	When set to ON, the activation of a smoke or Fire Phase 1 key causes a car that is currently on EMS Phase 1 to exit medical service and go on Fire Phase 1 recall. When turned OFF, the car remains on EMS Phase 1.	0	1	0
Fire Overrides EMS Ph2	01-0051	If turned ON, Fire Service will take priority over EMS2.	0	1	0
Fire Phase 2 Exit only at Recall Flr	01-0017	The car must be at recall floor to exit Fire Phase 2	0	1	config
Fire Phase2 Swing Reopen DISA	01-0016	"When set to ON, the car ignores the position of the swing door on Fire Phase 2. NOTE: Set ON mostly just in NYC	0	1	config
Fire Pit Flash Fire Hat	01-0031	Flashes the fire hat output when the Pit Smoke input is active	0	1	config
Fire Pit Shunt On Recall	01-0032	Activates fire shunt output during Phase 1 recall if triggered by Pit Smoke input	0	1	config
Fire Pit Use Alt FLR	01-0036	Sets which recall floor to use when the Pit Smoke input is active. Uses the alternate floor if set to ON.	0	1	config
Fire Recall to Main After Phase 2	01-0203	When set to ON, the car will fire-recall to the main floor after exiting Fire Phase 2. A17.1-2004 code.	0	1	0
Fire Remote And Main To Override Smoke	01-0027	Both remote and Main Fire Keyswitch must be on to trigger main floor recall	0	1	config
Fire Reset On Transition	01-0231	When set to ON, resets Fire 1 on keyswitch position transition from RESET to OFF	0	1	1
Fire Reset To Exit Phase1	01-0014	The Fire Reset Key input must be active to exit Phase 1	0	1	config

String	Number	Description	Min Value	Max Value	Default Value
Fire Switch 2 positions	01-0320	When Set to ON, the fire switches used on lobby and inside car are 2 positions	0	1	0
Fire1 DOB HC Enabled Dwell 1 min	01-0310	When set to ON, the Fire1 doors are cycled on recall, DOB and HC of recall floor after 1 min	0	1	0
Fire1 Recall To Flood Safe Floor	01-0374	When enabled, fire phase 1 will recall to a flood safe floor	0	1	0
Fire1 reset extinguishes Lobby Lamp at Alt Floor	01-0326	The lobby fire lamp turns off when fire1 is reset on alternate floor	0	1	0
Fire2 Bypass on MR and HA smoke	01-0309	When set to ON, the Fire2 is bypassed if the origin of Fire1 is machine room or hoistway smoke	0	1	0
Fire2 Cancel Button Reopen door	01-0317	When Fire II cancel button is pressed while car on fire recall floor, the doors reopen	0	1	0
Fire2 Close Door When No DOB	01-0319	Closes the door on fire2 ON when DOB is not pressed	0	1	0
Fire2 Swing Reopen	01-0221	When set ON, opening a swing hall closed contact will cause the doors to reopen.	0	1	0
FireRecallKeyDebounce_100ms	08-0233	Debounce counter for fire recall keyswitch inputs. Value is in 100msec counts.	0	127	10
Flood Override Fire	01-0102	Allows flood operation to take priority over fire operation	0	1	0
Low Battery Fire2 Run Limit	08-0251	When car is on Fire phase 2 travelling above the Recall fire floor and batterypower is triggered, the car Estops, then the value in this parameter will decide how many CCs the car will accept (CC will be always the floor below the floor it is at), then the car will return to the recall fire floor and fault out.	0	255	1
Only Exit FP1 on Main Landing	01-0311	When Set ON, the car will only exit FP on the Main recall landing. A car that has been utilized for FP2 operation will remain in FP until returned to the main landing and switched Off FP2 after a FP1 reset	0	1	0
Turn Off At Recall Output on FP2	01-0329	When enabled, turns off At Recall output when car is on FP2, and recall is finished	0	1	0

18 Fixtures Parameters

The table below lists the Fixtures parameters.

Table 17: Fixtures Parameters

String	Number	Description	Min Value	Max Value	Default Value
3 Digit PI	01-0144	When set to ON, three -digit PIs are used.	0	1	0
Arrival Lantern on DOL	01-0286	When set to ON, the arrival lanterns will assert when the DOL is reached as opposed to on DO or before DO.	0	1	0
Arrival Lantern Update Time	08-0168	Sets the time before arriving at a floor to update arrival lantern outputs. If set to zero, arrival outputs update when doors begin to open. Units are in seconds.	0	10	3
Arv Lantern DR 1	01-0175	When set to ON, set 1 of discrete arrival lantern outputs are for rear arrival. Set with 08-0197.	0	1	0
Arv Lantern DR 2	01-0176	When set to ON, set 2 of discrete arrival lantern outputs are for rear arrival. Set with 08-0198.	0	1	0
Arv Lantern DR 3	01-0177	When set to ON, set 3 of discrete arrival lantern outputs are for rear arrival. Set with 08-0199.	0	1	0
Arv Lantern DR 4	01-0178	When set to ON, set 4 of discrete arrival lantern outputs are for rear arrival. Set with 08-0200.	0	1	0
Arv Lantern DR 5	01-0179	When set to ON, set 5 of discrete arrival lantern outputs are for rear arrival. Set with 08-0201.	0	1	0
Arv Lantern FLR 1	08-0197	Specifies the floor index for set 1 of discrete arrival lantern outputs. Set with 01-0175.	0	255	0
Arv Lantern FLR 2	08-0198	Specifies the floor index for set 2 of discrete arrival lantern outputs. Set with 01-0176.	0	255	0
Arv Lantern FLR 3	08-0199	Specifies the floor index for set 3 of discrete arrival lantern outputs. Set with 01-0177.	0	255	0
Arv Lantern FLR 4	08-0200	Specifies the floor index for set 4 of discrete arrival lantern outputs. Set with 01-0178.	0	255	0
Arv Lantern FLR 5	08-0201	Specifies the floor index for set 5 of discrete arrival lantern outputs. Set with 01-0179.	0	255	0
DISA CE Flr Plus 1	01-0149	When set to ON, the floor index sent to CE driver boards start at zero instead of one. Used for jobs where the annuciator was misconfigured.	0	1	0
DISA DL20 Buzzer	01-0206	When set to ON, DL20 fixture buzzer feature is suppressed.	0	1	config
DISA Idle Travel Arrows	01-0116	When set to ON, CE travel arrows reflect the motion direction of the car. When set to OFF, the arrows reflect the motion direction of the car and the arrival direction after a run.	0	1	0
DISA PI OOS	01-0171	When set to ON, OOS does not flash on the PI when the car is out of group.	0	1	0
Discrete PI Timeout	08-0257	Timeout in seconds to stop updating the discrete PI board. Discrete Board will timeout after 2 seconds and revert to default outputs.	0	255	0

String	Number	Description	Min Value	Max Value	Default Value
Double Chime On Down	01-0161	When set to ON, the car chimes twice when the down arrow is activated. Set to OFF if the fixture automatically chimes twice.	0	1	0
Emotive Swap Indep. Service And Inspection	01-0337	When set to ON, Emotive will swap the independent service mode and inspection mode display	0	1	0
ENA CE V2	01-0226	When set ON,messages to the CE fixture driver board will include dedicated out of service and fire phase 2 messages.	0	1	0
ENA DL20 COP	01-0205	When set to ON, communication to DL-20 fixtures from the COP board is supported. Priority given to Janus emotive fixtures option (01-164). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	config
ENA DL20 CT	01-0204	When set to ON, communication to DL-20 fixtures from the CT board is supported. Priority given to Janus emotive fixtures option (01-164). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	config
ENA Dupar COP	01-0156	Enables communcation with Dupar COP	0	1	config
Enable CE Annunciator Vers 2	01-0395	When enabled, SRU works with the newest annunciator from CE	0	1	0
Enable CE Elite COP	01-0322	When set to ON, COP will use CE Elite TouchScreen COP.	0	1	0
Enable COP SR Touch Scr	01-0304	When set to ON, COP will use Smartrise TouchScreen protocol.	0	1	0
Enable Destination Display	01-0379	When enabled the CE MDBA/EMN43 destination display logic is activated	0	1	0
Enable Smartrise PI	01-0346	When enabled, SRPI is enabled, and CE is disabled	0	1	0
Hall Lantern Mask	08-0213	Sets which hall lantern function groups are active. Each bit represents a different Hall board function. Power must be cycled to the MR SRU after setting this parameter to enable the feature.	0	255	config
Rear Lantern Mask	08-0214	Sets which hall lantern function groups are used for rear lanterns. Each bit represents a different Hall board function.	0	255	config

19 Flood Parameters

The table below lists the Flood parameters.

Table 18: Flood Parameters

String	Number	Description	Min Value	Max Value	Default Value
Alt. Is Flood Safe Floor	01-0375	When enabled, alternate floor should be a flood safe floor, otherwise fault F337 "Inv. Fire Alt" will be generated	0	1	0
Enable Flood Limits On Inspection/Hoistway Access	01-0376	When enabled, flood limits will be imposed when on Inspection/Hoistway Access, i.e., the car will not be allowed to travel to a flood-unsafe floor, nor will the counterweight. The only exception is to allow elevator personnel to exit the car top at a landing.	0	1	0
Fire1 Recall To Flood Safe Floor	01-0374	When enabled, fire phase 1 will recall to a flood safe floor	0	1	0
Flood Flash Lamp	01-0278	When turned ON, if the active mode of operation is Flood, the flood lamp will flash instead of being asserted high. (North Carolina Inspector stated that any sensor/switch in the shaft that has a relative lamp, will need it to flash).	0	1	0
Flood Okay To Run	01-0103	Allows car to continue to run above the configured flood sensor floor (08-165)	0	1	0
Flood Override Fire	01-0102	Allows flood operation to take priority over fire operation	0	1	0
Number of Flood FLRs	08-0165	Used in conjunction with the Flood Switch input. If a flood is detected, this parameter tells the controller which floors to avoid. If set to zero, the car can go to all floors. If the flood switch is active and this parameter is set to 1, the car is not allowed to go to the bottom floor. If set to 2 then the car can't go to bottom 2 floors, etc.	0	255	config

20 Floor Parameters

The table below lists the Floor parameters.

Table 19: Floor Parameters

	Number	Description	Min Value	Max Value	Default Value
Access Code Floor 1F	16-0983	Sets the Access Code for Floor 1 Front	0	65535	0
Access Code Floor 1R	16-0991	Sets the Access Code for Floor 1 Rear	0	65535	0
Access Code Floor 2F	16-0984	Sets the Access Code for Floor 2 Front	0	65535	0
Access Code Floor 2R	16-0992	Sets the Access Code for Floor 2 Rear	0	65535	0

	Number	Description	Min Value	Max Value	Default Value
Access Code Floor 3F	16-0985	Sets the Access Code for Floor 3 Front	0	65535	0
Access Code Floor 3R	16-0993	Sets the Access Code for Floor 3 Rear	0	65535	0
Access Code Floor 4F	16-0986	Sets the Access Code for Floor 4 Front	0	65535	0
Access Code Floor 4R	16-0994	Sets the Access Code for Floor 4 Rear	0	65535	0
Access Code Floor 5F	16-0987	Sets the Access Code for Floor 5 Front	0	65535	0
Access Code Floor 5R	16-0995	Sets the Access Code for Floor 5 Rear	0	65535	0
Access Code Floor 6F	16-0988	Sets the Access Code for Floor 6 Front	0	65535	0
Access Code Floor 6R	16-0996	Sets the Access Code for Floor 6 Rear	0	65535	0
Access Code Floor 7F	16-0989	Sets the Access Code for Floor 7 Front	0	65535	0
Access Code Floor 7R	16-0997	Sets the Access Code for Floor 7 Rear	0	65535	0
Access Code Floor 8F	16-0990	Sets the Access Code for Floor 8 Front	0	65535	0
Access Code Floor 8R	16-0998	Sets the Access Code for Floor 8 Rear	0	65535	0
Access Offset Floors	08-0266	Specifies the number of offset floors that do not have access code. Useful to skip basements as an example.	0	96	0
At Recall Lamp Lobby Bypass DOL	01-0355	When enabled it will operate in conjunction with Parameter 01-0289. When both parameters are activated, the system should trigger the output (lamp at recall) upon the car reaching a specific landing that can be set through parameter 08-0122 (Car to lobby FLR) disregarding DOL.	0	1	0
At Recall Lamp Lobby DOL	01-0289	When set to ON, the At Recall output will assert when the car is at the lobby floor defined at 08-0122, and has the doors fully opened.	0	1	0
Auto Runs FLR To FLR F	01-0099	Enables automatic one floor front car call runs when on Enter Car Calls on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
Auto Runs FLR To FLR R	01-0077	Enables automatic one floor rear car call runs when on Enter Car Calls on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
Auto Runs Terminal To Terminal F	01-0074	Enables automatic front car call runs between terminal floors when on Enter Car Calls menu on the MR board display. This option should be left OFF and is for test purposes only.	0	1	0
Auto Runs Terminal To Terminal R	01-0056	Enables automatic rear car call runs between terminal floors when on Enter Car Calls menu on the MR board	0	1	0

	Number	Description	Min Value	Max Value	Default Value
		display. This option should be left OFF and is for test purposes only.			
BufferDistance _05mm	16-0927	Sets the distance between the bottom floor position and the buffer. This is used to determine ETSL point violations for reduced stroke buffer jobs.	0	65535	0
Bypass GSW Check Distance	16-1044	Distance from floor level in which GSW check is bypassed in manual doors .Units are in 0.019 inch counts.	0	65535	0
Car To Lobby FLR	08-0122	Sets the floor the car moves to when the Car to Lobby input is activated. This value is zero -based.	0	255	0
Check In Floor	08-0202	Sets Check in Floor for when secure floors CC are latched.	0	255	0
Custom Floor Index And Dwell Time 1s	16-1047	If the first 8 bits are set to nonzero, overrides the hall dwell time when at the custom floor. The custom floor is set by the second 8-bits of the parameter.	0	65535	0
Custom Mode Allowed Outside DR Zone	01-0088	Configure custom mode to allow outside door zone during test	0	1	0
DEBUG Monitor Car Direction	01-0107	Display car's direction priority on the controller's home screen.	0	1	0
Dest. Offset Down 0.5mm	08-0170	Reduces the destination floor count by this value when approaching a floor from above	0	255	0
Dest. Offset Up 0.5mm	08-0169	Reduces the destination floor count by this value when approaching a floor from below	0	255	0
DISA CE FlrPlus1	01-0149	When set to ON, the floor index sent to CE driver boards start at zero instead of one. Used for jobs where the annuciator was misconfigured.	0	1	0
DISA Dest Loss Stop	01-0202	When set to OFF, if a car is in flight to a floor and its destination lost and no alternate destination is detected, the car ramps down to the next reachable floor. When set to ON, this ramp down does not occur.	0	1	0
Door Zone Blade Size	08-0265	Specifies the door zone blade size in inches.	6	24	6
ENA Ext Floor Limit	01-0225	When set ON, the floor limit of the system is 96 floors instead of the usual 64.	0	1	config
ENA Midflight Destination Change	01-0043	Enables changing destination during a run. This option should be left ON and is for test purposes only.	0	1	1
ENA Regen On EP	01-0157	When set ON, enables the regen when the car is running on emergency power. By default, when set to OFF, the DBR will used instead of the regen when running on emergency power.	0	1	config
ENA Releveling	01-0041	Enables releveling when car is in door zone but outside the configured releveling zone (08-158)	0	1	1
Fire Alt Use Alt FLR	01-0003	Sets which recall floor to use when the smoke sensor located at the alternate recall floor is activated. Uses the alternate floor if set to ON.	0	1	config

	Number	Description	Min Value	Max Value	Default Value
Fire Alternate Recall FLR	08-0112	Sets the alternate fire recall floor. This value is zero -based, so the bottom most floor is zero.	0	255	config
Fire HW 2 Use Alt FLR	01-0185	Sets which recall floor to use when the Hoistway 2 Smoke input is active. Uses the alternate floor if set to ON.	0	1	config
Fire HW Use Alt FLR	01-0005	Sets which recall floor to use when the smoke sensor located in the hoistway is activated. Uses the alternate floor if set to ON.	0	1	config
Fire Main Recall FLR	08-0111	Sets the main fire recall floor. This value is zero -based, so the bottom most floor is zero.	0	255	config
Fire MAIN Use Alt FLR	01-0002	Sets which recall floor to use when the smoke sensor located at the main recall floor is activated. Uses the alternate floor if set to ON.	0	1	config
Fire MR 2 Use Alt FLR	01-0184	Sets which recall floor to use when the Machine Room 2 Smoke input is active. Uses the alternate floor if set to ON.	0	1	config
Fire MR Use Alt FLR	01-0004	Sets which recall floor to use when the smoke sensor located in the machine room is activated. Uses the alternate floor if set to ON.	0	1	config
Fire Pit Use Alt FLR	01-0036	Sets which recall floor to use when the Pit Smoke input is active. Uses the alternate floor if set to ON.	0	1	config
Front Opening Map 0	32-0000	Front door opening map for floors 1 to 32. Edit via SETUP | FLOORS | OPENINGS (F). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Front Opening Map 1	32-0001	Front door opening map for floors 33 to 64. Edit via SETUP | FLOORS | OPENINGS (F). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Front Opening Map 2	32-0002	Front door opening map for floors 65 to 96. Edit via SETUP | FLOORS | OPENINGS (F). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Group Landing Offset	08-0174	Sets the number of floors below the lowest serviced floor that are serviced by other group cars. This allows calls between different cars to be aligned so they refer to the same landing and is vital to proper dispatching.	0	31	config
HA Bottom Allowed Distance	08-0110	Sets the distance above the bottom hoistway access floor that the car is allowed to move while on bottom hoistway access. The units are in feet.	0	255	9
HA Bottom FLR	08-0096	Sets the bottom hoistway access floor. This value is zero -based, so the bottom most floor is zero.	0	255	0
HA Bottom Opening	08-0098	When nonzero, configures the bottom hoistway access to use the rear opening	0	255	0
HA Top Allowed Distance	08-0094	Sets the distance below the top hoistway access floor that the car is allowed to move while on top hoistway access. The units are in feet.	0	255	9

	Number	Description	Min Value	Max Value	Default Value
HA Top FLR	08-0095	Sets the top hoistway access floor. This value is zero - based, so the bottom most floor is zero. This value's upper bound is the configured number of floors (08-93).	0	255	255
HA Top Opening	08-0097	When nonzero, configures the top hoistway access to use the rear opening	0	255	0
Hard Stop Down floor	08-0262	Selects the floor that the car should pass when going down.	0	255	0
Hard Stop Up floor	08-0261	Selects the floor that the car should pass when going up.	0	255	0
Latch Fault on DZ discrepancy	01-0392	When set to ON, faults "At Floor No Door Zone" & "DZ Stuck High" becomes latching	0	1	0
Learn Improved	01-0252	When set to ON, learn operation will be performed on the car top instead of the machine room. This can improve the accuracy of learned floor positions.	0	1	0
LRN FLR 0 through LRN FLR 95	24-0096 through 24-0191	Learned Position Floor 0-95	0	16777 215	0
Move Idle Car Timer (10min)	08-0203	Sets the amount of time the car is allowed to stay idle before it is forced to move to a random floor. This can be useful on Hydro and Traction but it is more used cars using old DC machine with babbitt bearings that stick if the car is left idle for too long. If set to zero, this feature is disabled.	0	25	0
Number of Flood FLRs	08-0165	Used in conjunction with the Flood Switch input. If a flood is detected, this parameter tells the controller which floors to avoid. If set to zero, the car can go to all floors. If the flood switch is active and this parameter is set to 1, the car is not allowed to go to the bottom floor. If set to 2 then the car can't go to bottom 2 floors, etc.	0	255	config
Number of FLRs	08-0092	Sets the number of floors. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	2	96	config
PI_0 through P1_95	24-0000 through 24-0095	PI Label Floor 0-95	0	16777 215	config
Random Hall Runs	01-0114	Enables automatic hall call runs to random destinations when on the Enter Hall Calls menu on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
Rear Opening Map 0	32-0004	Rear door opening map for floors 1 to 32. Edit via SETUP | FLOORS | OPENINGS (R). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Rear Opening Map 1	32-0005	Rear door opening map for floors 33 to 64. Edit via SETUP | FLOORS | OPENINGS (R). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config

	Number	Description	Min Value	Max Value	Default Value
Rear Opening Map 2	32-0006	Rear door opening map for floors 65 to 96. Edit via SETUP | FLOORS | OPENINGS (R). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	42949 67295	config
Recall Floor on Active Shooter Plus 1	08-0270	When greater than zero, the car recalls to the floor equal to (value -1) set in this parameter, else it goes to the fire alternate floor.	0	255	0
Relevel Offset Down 0.5mm	08-0157	Reduces the releveling destination floor count by this value when approaching a floor from above	0	255	0
Relevel Offset Up 0.5mm	08-0156	Reduces the releveling destination floor count by this value when approaching a floor from below	0	255	0
Releveling Delay (50ms)	08-0140	Sets a delay before performing releveling. Units are in 50 ms counts.	0	255	10
Releveling Zone Size	08-0158	Sets the size of the releveling zone (dead zone) in 0.02 inch position counts. When the car greater than this distance from the nearest learned floor postion, and in door zone, it will attempt to relevel.	13	100	26
Run Random Runs F	01-0245	Enables automatic front car call runs to random destinations when on the Enter Car Calls menu on the MR board. If on the Enter Hall Calls menu, the car enters hall calls to random floors. This option should be left OFF and is for test purposes only.	0	1	0
Run Random Runs R	01-0110	Enables automatic rear car call runs to random destinations when on the Enter Car Calls menu on the MR board. If on the Enter Hall Calls menu, the car enters hall calls to random floors. This option should be left OFF and is for test purposes only.	0	1	0
Short Floor Opening_0	16-0958	Sets floors 1-16 as short floors. This setting is in bitmask form which each bit corresponds to a different floor index. Floors marked with 1 are not held to the same spacing requirements as standard floors. During a hoistway learn, their positions are auto set to a quarter inch from the previous floor and their position must be set manually via SETUP | FLOORS | STORE FLOOR LEVEL.	0	65535	0
Short Floor Opening_1	16-0959	Sets floors 17-32 as short floors. This setting is in bitmask form which each bit corresponds to a different floor index. Floors marked with 1 are not held to the same spacing requirements as standard floors. During a hoistway learn, their positions are auto set to a quarter inch from the previous floor and their position must be set manually via SETUP | FLOORS | STORE FLOOR LEVEL.	0	65535	0
Short Floor Opening_2	16-0960	Sets floors 33-48 as short floors. This setting is in bitmask form which each bit corresponds to a different floor index. Floors marked with 1 are not held to the same spacing requirements as standard floors. During a hoistway learn, their positions are auto set to a quarter	0	65535	0

	Number	Description	Min Value	Max Value	Default Value
		inch from the previous floor and their position must be set manually via SETUP | FLOORS | STORE FLOOR LEVEL.			
Short Floor Opening_3	16-0961	Sets floors 49-64 as short floors. This setting is in bitmask form which each bit corresponds to a different floor index. Floors marked with 1 are not held to the same spacing requirements as standard floors. During a hoistway learn, their positions are auto set to a quarter inch from the previous floor and their position must be set manually via SETUP | FLOORS | STORE FLOOR LEVEL.	0	65535	0
Short Floor Opening_4	16-0962	Sets floors 65-80 as short floors. This setting is in bitmask form which each bit corresponds to a different floor index. Floors marked with 1 are not held to the same spacing requirements as standard floors. During a hoistway learn, their positions are auto set to a quarter inch from the previous floor and their position must be set manually via SETUP | FLOORS | STORE FLOOR LEVEL.	0	65535	0
Short Floor Opening_5	16-0963	Sets floors 81-96 as short floors. This setting is in bitmask form which each bit corresponds to a different floor index. Floors marked with 1 are not held to the same spacing requirements as standard floors. During a hoistway learn, their positions are auto set to a quarter inch from the previous floor and their position must be set manually via SETUP | FLOORS | STORE FLOOR LEVEL.	0	65535	0
Shuttle Mode Floor	08-0231	Sets the floor the car moves to or from Main Fire recall floor, when the Shuttle mode input is activated. This value is zero -based.	0	255	0
Terminal Express floors	16-1046	The MSByte is for top floor and the LSByte is for the bottom floor on terminal express mode of operation	0	65535	0
Test Runs Dwell Time	08-0172	Sets the dwell time used when testing the car using automatic call entry modes: Floor to floor (01-62) and random runs (01-114). Units are in seconds.	0	255	0
Wander Guard Mask0	32-0032	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 1 to 32.	0	42949 67295	0
Wander Guard Mask1	32-0033	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 33 to 64.	0	42949 67295	0
Wander Guard Mask2	32-0034	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 65 to 96.	0	42949 67295	0

21 Group Parameters

The table below lists the Group parameters.

Table 20: Group Parameters

String	Number	Description	Min Value	Max Value	Default Value
Debug Fast Group Resend	01-0125	Doubles the minimum send rate of group network packets necessary for dispatching. This should be set to ON for every car to fully enable this feature.	0	1	0
Group Car Index	08-0121	Sets the car's group ID. This value is zero -based.	0	7	config
Group Number	08-0245	Sets the group number. This value is zero -based.	0	7	config
Group Redundancy Check	01-0285	When set to ON, the controller will check if any communicating Riser Board has been offline for more than 10 seconds, in which it will then assert the Group Redundancy Output. Used for jobs that require Group Redundancy.	0	1	0
Swing Stay In Group	01-0083	When set to ON, the car stays in group during swing operation	0	1	0
Transmit Run Log	01-0047	Enables transmission of run logs to the group network.	0	1	0

22 Hall Board Parameters

The table below lists the Hall Board parameters.

Table 21: Hall Board Parameters

String	Number	Description	Min Value	Max Value	Default Value
ENA Ext. Hall Boards	01-0195	When set to ON, they system is using 12-DIP Hall boards.	0	1	config
Hall Call Mask	08-0209	Sets which Hall board function groups the car. This function treats as regular hall calls.	0	255	config
Hall Medical Mask	08-0210	Sets which Hall board function groups are medical calls	0	255	config
Hall Medical Rear Door Mask	08-0258	Sets which Hall board function groups are rear door medical calls. When set 08-0210 HallMedicalMask differentiates front and this parameter defines rear. If zero, 08-0210 HallMedicalMask does both.	0	255	config
Hall Rear Door Mask	08-0211	Sets which Hall board function groups are rear calls	0	255	config
Hall Security Mask	08-0208	Sets which Hall board address ranges require hall security. Set this parameter the same as the hall call mask (08-0209) is set. This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	255	config
Linked Hall Mask 1	08-0178	Sets which function groups of Hall boards that have their outputs tied together. For example, if set to 7 a hall	0	255	config

String	Number	Description	Min Value	Max Value	Default Value
		button press triggers the lamp output on the function 1, function 2 and function 3 Hall board for that floor. This value is a hall mask. See the C4 User Manual for more details on how these masks are set.			
Linked Hall Mask 2	08-0179	Same as Linked Hall Mask 1. Used when multiple sets of linked hall buttons are needed.	0	255	config
Linked Hall Mask 3	08-0180	Same as Linked Hall Mask 1. Used when multiple sets of linked hall buttons are needed.	0	255	config
Linked Hall Mask 4	08-0181	Same as Linked Hall Mask 1. Used when multiple sets of linked hall buttons are needed.	0	255	config
Override Group Hall Mask	08-0146	When the input "Override Group Hall Mask" is activated the car will use this parameter as a hall call mask for the car	0	255	0
Swing Call Mask	08-0212	Sets which Hall board function groups are swing calls	0	255	config

23 Independent Service Parameters

The table below lists the Independent Service parameters.

Table 22: Independent Service Parameters

String	Number	Description	Min Value	Max Value	Default Value
IND SRV CCB Closes Door	01-0262	When set to ON, while on Independent Service, CCBs will close doors.	0	1	0
Independent Service Overrides Reset Service Code	01-0318	When set to on, Independent service overrides the Reset Service Code and the elevator travels normally	0	1	0
Independent Srv. Byp. Security	01-0065	Ignores car call security when on independent service	0	1	0
Independent Srv. Ignore Front CCB	01-0236	When set to ON, the Front CCB will be ignored while on Independent Service. (Feature Request).	0	1	0

24 Landing System Parameters

The table below lists the Landing System parameters.

Table 23: Landing System Parameters

String	Number	Description	Min Value	Max Value	Default Value
Acceptance EBrk Slide Distance	16-0866	Distance in CEDES count that the car slide during brake slide test.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
Acceptance Slide Distance	16-0865	Distance in CEDES count that the car slides during ETSL slide test	0	65535	0
APS Error Code Debounce	08-0260	Debounce setting for detecting a consistent error on the APS system. (CEDES/ELGO)	0	255	8
CEDES Alarm Time 100ms	08-0243	When a CEDES camera reports difficulty reading the tape an alarm signalling that maintenance cleaning needs to be performed will be asserted. A1457 to A1459. The CEDES read difficulty status is debounced by this timer. If this value is 0, the alarms are disabled. This value is in 100ms counts.	10	255	10
COUNTER WEIGHT MID POINT	24-0192	The counterweight position used to determine the recall floor during counter weight derailed operation. Units are in CEDES counts.	0	16777 215	0
DISA CEDES Faults	01-0057	Disables CEDES offline faults. This option should be left off and is for test purposes only.	0	1	0
ELGO Frozen Count Offset	08-0278	This parameter adds an offset to the ELGO Frozen Count Initial Threshold	0	255	0
ENA 2nd Camera for ETSL TSRD	01-0148	Enables a secondary CEDES unit (which connects to the COP) and ETSL/TSRD stop point checks. NOTE: Used for Canada jobs	0	1	0
ENA CEDES2	01-0147	Enables updated CEDES protocol v2.0	0	1	0
ENA ELGO	01-0296	Enables ELGO Landing system. Overrides CEDES.	0	1	0
ENA Landing Insp.	01-0038	Enables Landing Inspection operation when the MR board DIP 3B is on.	0	1	0
ETSL Camera Offset	16-0926	The position difference between the primary CEDES camera and the ETSL camera. The ETSL camera is placed above the primary camera. This value is generated automatically when the car is put in learn mode. Units are in 0.019 inch counts.	0	65535	0

25 Load Weighing Parameters

The table below lists the Load Weighing parameters.

Table 24: Load Weighing Parameters

String	Number	Description	Min Value	Max Value	Default Value
Debug LWD	01-0078	When set to ON, allows for viewing of load weighing device packet receive counts and raw load values.	0	1	0
ENA LWD V2	01-0273	When set to ON, serial LWD will used the improved calibration procedure for LWD v1.4.00 and later. When set to OFF, the serial SWD will used the calibration procedure for LWD v1.3.16 and prior.	0	1	config
Enable Pretorque Test	01-0190	When set to ON, enables test feature which outputs a fixed pretorque value to the drive, specified by LWD_TorqueOffset (08-132)	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
Load Weigher Select	08-0135	When set to zero, discrete load weigher signals are used.	0	255	0
LWD Auto Recalibrate	01-0068	When set to ON, the car regularly recalibrates its load weigher device	0	1	0
LWD ENA WiFi	01-0066	When set to ON, the C4 system commands the Smartrise load weighing device to enable its Wi-Fi connection	0	1	0
LWD Monthly Calibration Day	08-0206	Sets the day of the week to automatically perform a load weighing device recalibration. Recalibration is performed on the first occurence of this day on every month if automatic recalibration is enabled (01-0068).	0	255	6
LWD Monthly Calibration Hour	08-0205	Sets the time of day to automatically perform a load weighing device recalibration. Recalibration is performed on the first occurence of this day on every month if automatic recalibration is enabled (01-0068).	0	255	23
LWD Torque Offset	08-0132	Sets an offset to add to the Smartrise load weighing device torque percentage output. Value is a signed 8 -bit integer.	0	255	0
LWD Torque Scaling	08-0133	Sets a scaling value to multiply by the torque output of the Smartrise load weighing device. The value is a signed 8-bit integer in percentage format.	0	255	0
LWD Trigger Load Learn	01-0071	When set to ON, the car performs load weighing device full load calibration	0	1	0
LWD Trigger Recalibrate	01-0070	When set to ON, the car performs a load weighing device empty load recalibration	0	1	0
Max Car Calls Light Load	08-0223	Number of Car Calls latched. In Light Load, if this limit is exceeded, all car calls are cleared as an anti-nuisance measure. If set to zero, this feature is disabled.	0	255	0
Rescue Dir With Serial LWD	01-0281	When set to ON, a car on auto battery rescue will determine which direction to move using the pretorque value estimated by the C4 serial load weighing device. When set to OFF, the car will determine direction by discrete full load and light load signals (if 01-0105 is OFF) or the drive will determine the easiest direction (if 01-0105 is ON).	0	1	config
Sabbath Disable LWD	01-0223	When set ON, sabbath mode neutralizes LWD.	0	1	0

26 Manual Mode Parameters

The table below lists the Manual Mode parameters.

Table 25: Manual Mode Parameters

String	Number	Description	Min Value	Max Value	Default Value
Allow Inspection	01-0312	Allow car movement while a car is on Inspection during E-Power.	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
Movement on EP					
Allow Shunt Trip on Inspection mode	01-0341	When enabled, the shunt trip is enabled on inspection	0	1	0
Bypass Term HA Inspection	01-0284	When set to ON, while on HA Inspection, the car will be able to bypass term limits. Used in California for the run-by test.	0	1	0
Construction OVSP Debounce	08-0159	Sets the time the car must be in a construction overspeed state before a fault (F255) is flagged. The units are in 10 ms counts.	0	100	10
DISA CAM ON HA	01-0240	When set to ON, disables the CAM output for the configured opening when performing a hoistway access top run or hoistway access bottom run.	0	1	0
DISA Construction OVSP	01-0073	Disables the construction overspeed fault (F255)	0	1	1
DISA Doors On HA	01-0118	When set to ON, door outputs on hoistway access inspection are supressed.	0	1	0
ENA Construction Run Box	01-0072	Enables use of Construction Run Box inputs instead of MR Up and MR Down buttons for construction operation motion. These inputs are labeled CUP, CDN, and MDC on the MR board.	0	1	0
ENA Insp DO Out Of DZ	01-0151	Enables opening doors while outside of a door zone during inspection	0	1	0
ENA Pit Insp.	01-0037	Enables Pit Inspection operation when the MR board DIP 4B is on.	0	1	0
Enable Flood Limits On Inspection/Hoistway Access	01-0376	When enabled, flood limits will be imposed when on Inspection/Hoistway Access, i.e., the car will not be allowed to travel to a flood-unsafe floor, nor will the counterweight. The only exception is to allow elevator personnel to exit the car top at a landing.	0	1	0
Epower Car Active On Inspection	01-0347	When enabled, the car on inspection is supposed online and counted as on normal mode from the budget of Epower	0	1	0
HA Access Slide Distance 1in	08-0252	This is the distance added to parameter 08-0110 and 08-0094 that a car is allowed to be within from the Top/Bottom DZ limit when traveing towards the respective terminal.	1	255	6
HA Bottom Allowed Distance	08-0110	Sets the distance above the bottom hoistway access floor that the car is allowed to move while on bottom hoistway access. The units are in feet.	0	255	9
HA Bottom FLR	08-0096	Sets the bottom hoistway access floor. This value is zero -based, so the bottom most floor is zero.	0	255	0
HA Bottom Opening	08-0098	When nonzero, configures the bottom hoistway access to use the rear opening	0	255	0

String	Number	Description	Min Value	Max Value	Default Value
HA Top Allowed Distance	08-0094	Sets the distance below the top hoistway access floor that the car is allowed to move while on top hoistway access. The units are in feet.	0	255	9
HA Top FLR	08-0095	Sets the top hoistway access floor. This value is zero - based, so the bottom most floor is zero. This value's upper bound is the configured number of floors (08-93).	0	255	255
HA Top Opening	08-0097	When nonzero, configures the top hoistway access to use the rear opening	0	255	0
IC Insp. Req For CT	01-0075	Requires in car inspection to enable car top inspection.	0	1	0
Inching Reduced Limit	08-0268	The lower nibble defines be the adjustment for the Up direction, and the higher nibble for the Down direction. The values of these adjustments are incremented by 1 to compute the inching limits. Setting the parameter to 0 should result in a limit of (DZ/2 -1) in both directions to recover the old behavior.	0	255	0
Insp. Accel	08-0025	Sets the max acceleration rate used on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second squared counts.	10	80	20
Insp. Decel	08-0028	Sets the max deceleration rate used on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second squared counts.	10	160	10
Insp. Jerk In Accel	08-0026	Sets starting rate of acceleration change on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second cubed counts.	3	250	20
Insp. Jerk In Decel	08-0030	This option is not used.	3	250	60
Insp. Jerk Out Accel	08-0027	Sets the rate of acceleration change when approaching max speed on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second cubed counts.	3	250	20
Insp. Jerk Out Decel	08-0029	This option is not used.	3	250	8
Insp. Leveling Distance	08-0031	This option is not used.	0	122	5
Inspection OVSP Debounce Limit	08-0116	Sets the time the car must be in an inspection overspeed state before a fault (F66) is flagged. The units are in 10 ms counts.	0	100	10
Inspection SPD	16-0873	Sets the speed used when in inspection mode, but not in access mode. The controller faults if this is higher than 150 fpm.	0	150	50
Motor Drop Delay Insp (ms)	16-0890	Sets the stop sequence delay between dropping drive control and dropping the M contactor while on inspection operation.	0	65535	500

String	Number	Description	Min Value	Max Value	Default Value
Soft Limit Distance Down (ft)	16-0898	Sets the distance away from the bottom terminal floor that the car switches to inspection terminal speed (16-875) during manual operation	0	65535	2
Soft Limit Distance Up (ft)	16-0897	Sets the distance away from the top terminal floor that the car switches to inspection terminal speed (16-875) during manual operation	0	65535	2

27 Miscellaneous Parameters

The table below lists the Miscellaneous parameters.

Table 26: Miscellaneous Parameters

String	Number	Description	Min Value	Max Value	Default Value
BYP Term Limits	01-0034	Bypasses terminal limit faults. This option is automatically turned off when in automatic operation.	0	1	0
Car Stability Delay (50ms)	08-0093	Sets the amount of time the car must be stable (moving at 1 fpm or less) before it's allowed to perform a non-releveling run. This timer can be helpful if a car bounces due to rope stretch. Units are in 50 ms counts.	0	255	0
Debounce Latched Fault	01-0136	When set to ON, the latching of safety faults are debounced for 6 seconds instead of the standard 2.5 seconds.	0	1	0
Default FRAM	01-0145	Set ON to default the FRAM chip. This option is self - resetting. This clears fault/alarm logs, latched faults, emergency bits, and run counter.	0	1	0
DIP Bank Bitmask	08-0256	If DIP_Bank_Override is not zero, the specific DIP bank will be ignored, using this parameter as logical DIP bank.	0	255	0
DIP Bank to Override	08-0255	Use this parameter to override a specific DIPA Bank. Disabled by default, zero. If not zero, 1 - MR_BANKA, 2 - CT_BANKA, 3 - COP_BANKA.	0	255	0
ENA Board RTC	01-0199	When set to ON, the onboard RTC is used instead of the D.A.D unit RTC.	0	1	0
ENA CAN OVF RST	01-0274	When set to OFF, the CAN1 bus buffer will not be cleared when it is filled. When set to ON, the CAN1 bus buffer will clear when filled.	0	1	0
ENA Estop Alarms	01-0150	Enables a system alarm signalling when the Estop is commanded without a corresponding fault (A69 to A76)	0	1	0
ENA Op Mode Alarm	01-0129	Enables a system alarm signalling when the mode of operation changes (A146)	0	1	0
ENA Shield Alarms	01-0224	When set ON, shield errors will be flagged as system alarms.	0	1	1
ENA Stop At Next Alarm	01-0130	Enables a system alarm signalling when a car is commanded to stop at the next available landing (A74). This can occur if the car's current destination has been cleared during a run.	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
Enable TEI CC	01-0280	When set to ON, the module TEI CC is initialized, and Marshal Mode is disabled. When set to OFF, Marshal Mode is enabled, and the module TEI CC Is disabled. After changing this parameter, a power cycle is required.	0	1	0
Fan And Light Timer	08-0115	Sets the time the car may be idle before its fan and light output is turned off. If a longer timer is needed, the extended fan and light timer (08-184) should be used with the output MR Fan instead. Units are in seconds.	0	255	0
FRAM ENA Alarms	01-0169	When set to ON, a FRAM corruption check on read fails an alarm displays.	0	1	1
In Motion Opening Alarm	01-0172	When set to ON, if car top output 614 (DO) is on during a run, an alarm is asserted (A631). This is used for debugging.	0	1	0
Lockout Screen Code	16-1045	This is the code required to enter in order to have access to the internal menu. When 0, the lockout feature is disabled.	0	9999	0
Mode Of Operation Generic Output	08-0016	Sets the mode of operation that when activated the generic output lamp is activated	0	255	0
Module Time Violation (ms)	16-0924	Any module that runs longer than this set value triggers an alarm	0	65535	0
Motion Direction Stage Plus1	08-0194	When zero, direction is asserted during the accel delay start sequence stage. Otherwise, motion direction is asserted based on the start sequence enumeration en_motion_start_sequence plus 1.	0	255	0
Motion Resolution	08-0127	Sets the resolution of the commanded pattern. Units are in milliseconds.	3	20	10
MR Fan Timer (min)	08-0184	Sets the time the car may be idle before its machine room fan output is turned off. Units are in minutes.	0	255	0
Num Resend Run Log	08-0142	Sets the number of times to resend each run log packet	0	255	10
Offline Ctrl Timer	08-0124	Sets the minimum rate at which packets are sent from each of the main system processors	100	255	100
Rate To Send Parameters	08-0120	Sets the rate parameter update packets is sent on the group network. The units are in 5 ms counts.	0	255	20
Reset Service Code	16-1042	Reset service code after number of HC trips exceeded	0	9999	0
Reset Service Code Nb of Trips	08-0254	Number of hall call trips before asserting Reset Service Code	0	255	0
Run Log Scaling	08-0125	Sets the resolution of captured run logs. Units are in 50 ms counts.	0	255	4
SFP Debounce Limit	08-0119	Sets the time that the SFP relay must be seen low before a fault (F52) is flagged. The units are in 10 ms counts.	10	255	10
Short Profile Minimum Distance	08-0147	Sets the distance below which the Short Motion profile is used instead of the Normal Motion profile. Units are in feet.	0	255	0

String	Number	Description	Min Value	Max Value	Default Value
Time Violation Module	08-0151	Sets which module to check against the 16-924 time violation setting. If set to zero, all modules are checked.	0	255	0
Time Violation Rate	08-0048	Sets the tolerance for module run time. Units are in 1% of run period	0	255	0

28 MR Board Parameters

The table below lists the MR Board parameters.

Table 27: MR Board Parameters

String	Number	Description	Min Value	Max Value	Default Value
DISA Preflight	01-0064	Disables the end of run preflight check	0	1	1
ENA Old FRAM	01-0137	When set to ON, the MR board is configured to work with old FRAM hardware.	0	1	0
ENA Preflight Test DIP	01-0126	When set to ON, turning on MR board DIP 7B triggers a preflight check.	0	1	0
ENA UI Drive Edit	01-0128	Enables editing of drive parameters from the MR board or the group's GUI	0	1	0
Enable Postflight Only	01-0354	When enabled, the preflight is always done after the travel	0	1	0
Increase MRB Send Rate	01-0124	Doubles the minimum send rate of packets from the MRB processor to the reset of the car's main boards. This option is for test only and should remain OFF.	0	1	0
MR IN (1-8)	16-0000 through 16-0007	Set the MR board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
MR OUT (1-8)	16-0392 through 16-0399	Assign MR board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

29 NTS Parameters

The table below lists the NTS parameters.

Table 28: NTS Parameters

String	Number	Description	Min Value	Max Value	Default Value
DISA Non Terminal NTS	01-0153	When set to OFF, during an NTS trip, the car stops at the first door zone passed after reaching NTS speed. When set to ON, the car stops at its original destination.	0	1	1
DISA NTS Update	01-0063	Disables updating of NTS points. Used for debugging purposes and should be turned on only to temporarily manually adjust NTS trip points.	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
ETS Offset From NTS	08-0128	Sets the position offset from generated NTS trip points to applied to ETS trip points. Units are in 0.2 inch counts.	0	255	10
Invert NTS Stop	01-0067	Changes machine room NTS output from active high, to active low. Needed for KEB drives. This option is obsolete for newer hardware running CPLD v1.1 or CPLD 3.7 and newer. These versions of hardware should invert NTS via the MR SRU DIP B1 and should leave this parameter set to OFF.	0	1	config
NTS Debounce	08-0139	Sets the time the car must be exceeding one of the eight NTS trip points before an NTS trip is flagged (A1 to A64). Units are in 25 ms counts.	0	255	10
NTS POS P1-(1-7)	16-0817 through 16-0823	The position threshold of the NTS trip P1-(1-7) for the normal motion profile. This value is read only.	0	65535	0
NTS POS P1-0	16-0816	The position threshold of the first (closest to the terminal) NTS trip P1-0 for the normal motion profile. This value is read only.	0	65535	0
NTS POS P2-(0-7)	16-0824 through 16-0831	The position threshold of the NTS trip point P2-(0-7) for the inspection motion profile. This value is read only.	0	65535	0
NTS POS P3-(0-7)	16-0832 through 16-0839	The position threshold of the NTS trip point P3-(0-7) for the emergency power motion profile. This value is read only.	0	65535	0
NTS POS P4-(0-7)	16-0840 through 16-0847	The position threshold of the NTS trip point P4-(0-7) for the short motion profile. This value is read only.	0	65535	0
NTS VEL P1-(1-7)	16-0785 through 16-0791	The velocity threshold of the NTS trip P1-(1-7) for the normal motion profile. This value is read only.	0	65535	0
NTS VEL P1-0	16-0784	The velocity threshold of the first (closest to the terminal) NTS trip P1-0 for the normal motion profile. This value is read only.	0	65535	0
NTS VEL P2-(0-7)	16-0792 through 16-0799	The velocity threshold of the NTS trip point P2-(0-7) for the inspection motion profile. This value is read only.	0	65535	0
NTS VEL P3-(0-7)	16-0800 through 16-0807	The velocity threshold of the NTS trip point P3-(0-7) for the emergency power motion profile. This value is read only.	0	65535	0
NTS VEL P4-(0-7)	16-0808 through 16-0815	The velocity threshold of the NTS trip point P4-(0-7) for the short motion profile. This value is read only.	0	65535	0

30 Out of Service Parameters

The table below lists the Out Of Service (OOS) parameters.

Table 29: OOS Parameters

String	Number	Description	Min Value	Max Value	Default Value
Dir. Counter Limit	24-0198	This is the number of travel direction change after which the system will trip and put the car out of service. A null value, means that this feature is not activated.	0	16777 215	0
DISA OOS	01-0080	Disables out of service	0	1	1
DISA PI OOS	01-0171	When set to ON, OOS does not flash on the PI when the car is out of group.	0	1	0
DR Hourly Fault Limit	08-0148	Sets the number of door faults allowed within a 1-hour window before the car goes out of service. If the car goes out of service, it will remain out of service until the hour window elapses. If set to zero, there is no limit to the number of hourly door faults.	0	255	0
Hourly Fault Limit	08-0160	Sets the number faults allowed within a one hour window before the car goes out of service. If the car goes out of service, it remains out of service until the hour window elapses.	5	255	10
Max Runtime (1s)	08-0131	Sets the max straight run time allowed in automatic operation before the car faults (F116). If set to zero, this fault is supressed. Units are in seconds.	0	255	180
Max Starts Per Minute	08-0196	Specifies how many times the car may attempt to start a run in Automatic operation during a 1-minute window. If the controller attempts additional runs, the car goes out of service until the real-time clock increments to the next minute. Set this parameter to zero to disable the feature.	0	255	10
OOS Rear Opening	01-0079	Sets which door to open when recalled on out-of-service mode. Uses the rear door when set to ON.	0	1	0
OOS Set DR Open	01-0081	Keeps door open when at floor in out of service mode.	0	1	0

31 Parking Parameters

The table below lists the Parking parameters.

Table 30: Parking Parameters

String	Number	Description	Min Value	Max Value	Default Value
Custom Mode Parking Enabled	01-0089	Configure custom mode to enable parking during test	0	1	0
Dynamic Parking DO (1-8)	01-0213 through 01-0220	Sets the parking with door open option for the priority (1-8) dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car will park with the doors closed.	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
Dynamic Parking Landing (1-8) Plus 1	08-0215 through 08-0222	Sets the priority (1-8) dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0
ENA Dynamic Parking	01-0146	When set to ON, the parking floor is determined dynamically based on hall call history.	0	1	0
ENA Peak Dispatch	01-0263	when set to ON, Enables the Remote Peak Parking dispatching inputs (Up/Down/Lobby peak)	0	1	0
Enable Cycle Doors When Park	01-0293	When parameter is set, and the door state is closed while parking, the door will open before closing	0	1	0
Parking by Proximity	01-0315	Enables proximity-based parking assignment: select the closest eligible car for Dynamic/Predictive Parking even if not “parking ready”. When enabled, assignments won’t reassign cars already parked; only unassigned cars are used.	0	1	0
Parking FLR	08-0113	Sets the parking floor that is used if the parking timer (08-114) is nonzero and dynamic parking is off (01-146). This value is zero -based, so the bottom most floor is zero.	0	255	0
Parking Opens Rear Door	01-0313	When set to ON, the rear door opens when the car reaches the parking floor	0	1	0
Parking Timer	08-0114	Sets the time it takes before an idle car is parked. If set to zero, parking is disabled. Units are in seconds.	0	255	0
Parking With DR Open	01-0132	When set to ON, the door, based on 1-313 (On = rear / Off = front),is held open when the car is parked.	0	1	0

32 Riser Board Parameters

The table below lists the Riser Board parameters.

Table 31: Riser Board Parameters

String	Number	Description	Min Value	Max Value	Default Value
ENA Riser Alarms	01-0060	Enables system alarms used to signal Riser board errors	0	1	0
RIS1 IN (1-8)	16-0040 through 16-0047	Set the Riser1 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
RIS1 OUT (1-8)	16-0432 through 16-0439	Set the Riser1 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
RIS2 IN (1-8)	16-0048 through 16-0055	Set the Riser2 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
		also be inverted via SETUP | SETUP I/O | INVERT INPUTS.			
RIS2 OUT (1-8)	16-0440 through 16-0447	Set the Riser2 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
RIS3 IN (1-8)	16-0056 through 16-0063	Set the Riser3 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
RIS3 OUT (1-8)	16-0448 through 16-0455	Set the Riser3 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0
RIS4 IN (1-8)	16-0064 through 16-0071	Set the Riser4 board input terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP INPUTS. Only two instances of each function are permitted. Inputs can also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
RIS4 OUT (1-8)	16-0456 through 16-0463	Set the Riser4 board output terminal (1-8) functionality. Change via SETUP | SETUP I/O | SETUP OUTPUTS. Only two instances of each function are permitted.	0	65535	0

33 Digital S-curve Technology ™ (U.S. Patent Pending) Parameters

The table below lists the Digital S-curve Technology ™ (U.S. Patent Pending) parameters.

Table 32: Digital S-curve Technology ™ (U.S. Patent Pending) Parameters

String	Number	Description	Min Value	Max Value	Default Value
EP Accel	08-0032	Sets the max acceleration rate used on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second squared counts. Note, this profile takes effect when the car is running on generator or battery power.	10	80	20
EP Decel	08-0035	Sets the max deceleration rate used on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second squared counts. Note, this profile takes effect when the car is running on generator or battery power.	10	80	10
EP Jerk In Accel	08-0033	Sets starting rate of acceleration change on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second cubed counts. Note, this profile takes effect when the car is running on generator or battery power.	3	250	20
EP Jerk In Decel	08-0036	Sets the starting rate of deceleration change on E-Power profile runs. The E-Power run is used when on emergency power mode. Units are in 0.1 feet per second	3	250	20

String	Number	Description	Min Value	Max Value	Default Value
		cubed counts. Note, this profile takes effect when the car is running on generator or battery power.			
EP Jerk Out Accel	08-0034	Sets the rate of acceleration change when approaching max speed on E-Power profile runs. The E-Power profile is selected when in emergency power mode. Units are in 0.1 feet per second cubed counts. Note, this profile takes effect when the car is running on generator or battery power.	3	250	20
EP Jerk Out Decel	08-0037	Sets the rate of deceleration change at the end of deceleration on E-Power profile runs. The E-Power run is used when on emergency power mode. Units are in 0.1 feet per second cubed counts. Note, this profile takes effect when the car is running on generator or battery power.	3	250	8
Insp. Accel	08-0025	Sets the max acceleration rate used on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second squared counts.	10	80	20
Insp. Decel	08-0028	Sets the max deceleration rate used on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second squared counts.	10	160	10
Insp. Jerk In Accel	08-0026	Sets starting rate of acceleration change on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second cubed counts.	3	250	20
Insp. Jerk In Decel	08-0030	This option is not used.	3	250	60
Insp. Jerk Out Accel	08-0027	Sets the rate of acceleration change when approaching max speed on inspection profile runs. The inspection profile is selected while in inspection mode. Units are in 0.1 feet per second cubed counts.	3	250	20
Insp. Jerk Out Decel	08-0029	This option is not used.	3	250	8
Insp. Leveling Distance	08-0031	This option is not used.	0	122	5
Normal Accel	08-0017	Sets the max acceleration rate used on normal profile runs. The normal profile is selected in all automatic operation runs longer than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second squared counts.	10	80	20
Normal Decel	08-0020	Sets the max deceleration rate used on normal profile runs. The normal profile is selected in all automatic operation runs longer than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second squared counts.	10	80	10
Normal Jerk In Accel	08-0018	Sets starting rate of acceleration change on normal profile runs. The normal profile is selected in all	3	250	20

String	Number	Description	Min Value	Max Value	Default Value
		automatic operation runs longer than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.			
Normal Jerk In Decel	08-0021	Sets the starting rate of deceleration change on normal profile runs. The normal profile is selected in all automatic operation runs longer than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.	3	250	20
Normal Jerk Out Accel	08-0019	Sets the rate of acceleration change when approaching max speed on normal profile runs. The normal profile is selected in all automatic operation runs longer than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.	3	250	20
Normal Jerk Out Decel	08-0022	Sets the rate of deceleration change at the end of deceleration on normal profile runs. The normal profile is selected in all automatic operation runs longer than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.	3	250	8
Quick Stop Decel	08-0023	Sets the rate of deceleration used during an NTS trip. During an NTS trip, the drive ignores the controller's commanded speed and both ramp down their speeds independently.	0	255	30
Short Accel	08-0039	Sets the max acceleration rate used on short profile runs. The short profile is selected in all automatic operation runs shorter than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second squared counts.	10	80	20
Short Decel	08-0042	Sets the max deceleration rate used on short profile runs. The short profile is selected in all automatic operation runs shorter than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second squared counts.	10	80	10
Short Jerk In Accel	08-0040	Sets starting rate of acceleration change on short profile runs. The short profile is selected in all automatic operation runs shorter than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.	3	250	20
Short Jerk In Decel	08-0043	Sets the rate of deceleration change when approaching a floor on short profile runs. The short profile is selected in all automatic operation runs shorter than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.	3	250	20
Short Jerk Out Accel	08-0041	Sets the rate of acceleration change when approaching max speed on short profile runs. The short profile is selected in all automatic operation runs shorter than	3	250	20

String	Number	Description	Min Value	Max Value	Default Value
		minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.			
Short Jerk Out Decel	08-0044	Sets the rate of deceleration change at the end of deceleration on short profile runs. The short profile is selected in all automatic operation runs shorter than minimum short profile distance (08-147), with exception of emergency power. Units are in 0.1 feet per second cubed counts.	3	250	8
Short Leveling Distance	08-0045	Sets the distance from a floor at which the car transitions to leveling speed (16-908) while on short profile runs. The short profile is selected in all automatic operation runs shorter than minimum short profile distance (08-147), with exception of emergency power. When zero, the car will not transition to leveling speed. Units are in 0.2 inch counts.	0	122	5

34 Sabbath Parameters

The table below lists the Sabbath parameters.

Table 33: Sabbath Parameters

String	Number	Description	Min Value	Max Value	Default Value
DISA Sabbath Releveling	01-0197	When set to ON, releveling is disabled when on Sabbath operation.	0	1	0
DR Dwell Sabbath Time 1s	08-0007	Sets the time car doors remain open while in Sabbath operation. The units are in seconds.	0	255	3
Sabbath Closing Buzzer 100ms	08-0015	Sets the amount of time before doors begin to close that the door close buzzer is turned ON during Sabbath Mode. This buzzer output remains on until doors are fully closed. If set to zero, this feature is disabled.	0	255	50
Sabbath Disable LWD	01-0223	When set ON, sabbath mode neutralizes LWD.	0	1	0
Sabbath Down Destinations 0	32-0026	Sets which floors to stop at during Sabbath down destinations 1-32.	0	42949 67295	config
Sabbath Down Destinations 1	32-0027	Sets which floors to stop at during Sabbath down destinations 33-64.	0	42949 67295	config
Sabbath Down Destinations 2	32-0028	Sets which floors to stop at during Sabbath down destinations 65-96.	0	42949 67295	config
Sabbath ENA Ext Buzzer	01-0234	When set to ON, the Sabbath closing buzzer on time, if enabled via the SabbathClosingBuzzer_100ms (08-0015), is extended from when the doors start to close to when the doors are fully closed.	0	1	0
Sabbath Front Opening 0	32-0036	Floors 1 to 32 front openings when in Sabbath operation.	0	42949 67295	config

String	Number	Description	Min Value	Max Value	Default Value
Sabbath Front Opening 1	32-0037	Floors 33 to 64 front openings when in Sabbath operation.	0	42949 67295	config
Sabbath Front Opening 2	32-0038	Floors 65 to 96 front openings when in Sabbath operation.	0	42949 67295	config
Sabbath Key Only ENA	01-0139	When set to ON, Sabbath operations are only activated by Keyswitch input.	0	1	0
Sabbath Key Or Timer ENA	01-0140	When set to ON, Sabbath operation is activated by either Keyswitch input or configured Sabbath Start Time (24-193) and Sabbath End Time (24-194)	0	1	0
Sabbath Nudge Doors	01-0242	When set to ON, doors Nudge instead of close during Sabbath.	0	1	1
Sabbath Rear Opening 0	32-0039	Floors 1 to 32 rear openings when in Sabbath operation.	0	42949 67295	config
Sabbath Rear Opening 1	32-0040	Floors 33 to 64 rear openings when in Sabbath operation.	0	42949 67295	config
Sabbath Rear Opening 2	32-0041	Floors 65 to 96 rear openings when in Sabbath operation.	0	42949 67295	config
Sabbath Timer Only ENA	01-0141	When set to ON, Sabbath operation is activated only by the configured Sabbath Start Time (24-193) and Sabbath End Time (24-194).	0	1	0
Sabbath Up Destinations 0	32-0023	Sets which floors to stop at during Sabbath up destinations 1-32.	0	42949 67295	config
Sabbath Up Destinations 1	32-0024	Sets which floors to stop at during Sabbath up destinations 33-64.	0	42949 67295	config
Sabbath Up Destinations 2	32-0025	Sets which floors to stop at during Sabbath up destinations 65-96.	0	42949 67295	config
Sabbath_ Start_ Time	24-0193	Sets the Friday start time for Sabbath when timer enable is set. Format is HHMM, for example, 12:34 PM is 1234.	0	16777 215	0
Sabbath_ End_ Time	24-0194	Sets the Saturday end time for Sabbath when timer enable is set. Format is HHMM, for example, 12:34 PM is 1234.	0	16777 215	0

35 Security Parameters

The table below lists the Security parameters.

Table 34: Security Parameters

String	Number	Description	Min Value	Max Value	Default Value
Access Code CCB Time (1s)	08-0138	Sets the time the user has to enter each CCB for access code. This timer will reset every time the user enters a CCB for access code.	0	255	5
Access Code Floor 1F	16-0983	Sets the Access Code for Floor 1 Front	0	65535	0
Access Code Floor 1R	16-0991	Sets the Access Code for Floor 1 Rear	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
Access Code Floor 2F	16-0984	Sets the Access Code for Floor 2 Front	0	65535	0
Access Code Floor 2R	16-0992	Sets the Access Code for Floor 2 Rear	0	65535	0
Access Code Floor 3F	16-0985	Sets the Access Code for Floor 3 Front	0	65535	0
Access Code Floor 3R	16-0993	Sets the Access Code for Floor 3 Rear	0	65535	0
Access Code Floor 4F	16-0986	Sets the Access Code for Floor 4 Front	0	65535	0
Access Code Floor 4R	16-0994	Sets the Access Code for Floor 4 Rear	0	65535	0
Access Code Floor 5F	16-0987	Sets the Access Code for Floor 5 Front	0	65535	0
Access Code Floor 5R	16-0995	Sets the Access Code for Floor 5 Rear	0	65535	0
Access Code Floor 6F	16-0988	Sets the Access Code for Floor 6 Front	0	65535	0
Access Code Floor 6R	16-0996	Sets the Access Code for Floor 6 Rear	0	65535	0
Access Code Floor 7F	16-0989	Sets the Access Code for Floor 7 Front	0	65535	0
Access Code Floor 7R	16-0997	Sets the Access Code for Floor 7 Rear	0	65535	0
Access Code Floor 8F	16-0990	Sets the Access Code for Floor 8 Front	0	65535	0
Access Code Floor 8R	16-0998	Sets the Access Code for Floor 8 Rear	0	65535	0
Access Code follows Time Security	01-0196	When set to ON, floors that are secured by an Access Code will only require a code if the time is within the valid time set for Time Security. If an invalid time is set (as in no time is set or time frame is set up wrong), Access Code will be bypassed. When set to OFF, access code is always required regardless of time, for opening where they are configured.	0	1	0
Access Dis. F Doors	01-0332	When set to ON, it disables front doors to have access code.	0	1	0
Access Dis. R Doors	01-0333	When set to ON, it disables rear doors to have access code.	0	1	0
Access Offset Floors	08-0266	Specifies the number of offset floors that do not have access code. Useful to skip basements as an example.	0	96	0
Attendant Byp. Security	01-0352	Ignores car call security when on Attendant service	0	1	0
Car Call Enable Delay Sec	08-0271	Delay time between car call button and car call enable security key switch. In Seconds	0	255	0
Check In Floor	08-0202	Sets Check in Floor for when secure floors CC are latched.	0	255	0

String	Number	Description	Min Value	Max Value	Default Value
Custom Mode Ignore Car Call Security	01-0086	Configure custom mode to ignore all security car calls during test	0	1	0
Custom Mode Ignore Hall Call Security	01-0087	Configure custom mode to ignore all security hall calls during test	0	1	0
DISA DOB Secured Flr or Ignored opening	01-0173	When set to ON, DOB is ignored for secured floors when the doors are fully closed or when the Car calls is ignored on a floor	0	1	0
ENA Check In Floor	01-0192	Enables Check In Security	0	1	0
ENA Hall Security	01-0138	Enables hall call security	0	1	0
ENA HC SEC BY CAR	01-0272	When set to OFF, the hall call security configuration on the master car is applied to all group cars. On hall call button press, hall security is evaluated before the call is latched. Latched calls are not reassessed if the call is secured after it is latched. By default this option should be OFF. When set to ON, hall call security is configured on a per car basis. Latch hall calls are constantly checked against hall call security and locked calls are cleared out.	0	1	config
ENA Latches CC	01-0133	When set to ON, car call enable latches a car call.	0	1	0
ENA Remote Security	01-0257	When set to ON, remote monitoring systems can enable car call and hall call security at different openings.	0	1	0
Enable CC Secured Alarms	01-0021	When set to ON, if a pressed CCB is secured, the CCB Secured alarm will be asserted.	0	1	1
Front Check In Security 0	16-0928	Front door check in security for floors 1 to 16.	0	65535	0
Front Check In Security 1	16-0929	Front door check in security for floors 17 to 32.	0	65535	0
Front Check In Security 2	16-0930	Front door check in security for floors 33 to 48.	0	65535	0
Front Check In Security 3	16-0931	Front door check in security for floors 49 to 64.	0	65535	0
Front Check In Security 4	16-0932	Front door check in security for floors 65 to 80.	0	65535	0
Front Check In Security 5	16-0933	Front door check in security for floors 81 to 96.	0	65535	0
Front Security Map 0	32-0008	Front door car call security map for floors 1 to 32. Edit via SETUP | FLOORS | SECURITY (F).	0	42949 67295	Job Specific
Front Security Map 1	32-0009	Front door car call security map for floors 33 to 64. Edit via SETUP | FLOORS | SECURITY (F).	0	42949 67295	config
Front Security Map 2	32-0010	Front door car call security map for floors 65 to 96. Edit via SETUP | FLOORS | SECURITY (F).	0	42949 67295	config

String	Number	Description	Min Value	Max Value	Default Value
Hall Secure Map F 0	16-0940	Hall call security map for front openings. Turns on hall call security for front openings on group landings 1 to 16. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (F). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map F 1	16-0941	Hall call security map for front openings. Turns on hall call security for front openings on group landings 17 to 32. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (F). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map F 2	16-0942	Hall call security map for front openings. Turns on hall call security for front openings on group landings 33 to 48. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (F). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map F 3	16-0943	Hall call security map for front openings. Turns on hall call security for front openings on group landings 49 to 64. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (F). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map F 4	16-0944	Hall call security map for front openings. Turns on hall call security for front openings on group landings 65 to 80. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (F). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map F 5	16-0945	Hall call security map for front openings. Turns on hall call security for front openings on group landings 81 to 96. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (F). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config

String	Number	Description	Min Value	Max Value	Default Value
Hall Secure Map R 0	16-1035	Hall call security map for rear openings. Turns on hall call security for rear openings on group landings 1 to 16. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (R). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map R 1	16-1036	Hall call security map for rear openings. Turns on hall call security for rear openings on group landings 17 to 32. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (R). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map R 2	16-1037	Hall call security map for rear openings. Turns on hall call security for rear openings on group landings 33 to 48. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (R). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map R 3	16-1038	Hall call security map for rear openings. Turns on hall call security for rear openings on group landings 49 to 64. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (R). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map R 4	16-1039	Hall call security map for rear openings. Turns on hall call security for rear openings on group landings 65 to 80. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (R). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config
Hall Secure Map R 5	16-1040	Hall call security map for rear openings. Turns on hall call security for rear openings on group landings 81 to 96. Edit via SETUP | GROUP SETUP | HALL SECURITY MAP (R). Which hall board function ranges are affected by this mask is set by the Hall Security Mask (08-0208). This should be set the same on all group cars. If EnableHCSecurityByCar (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	config

String	Number	Description	Min Value	Max Value	Default Value
HC Secure Timed BitmapF0	16-0973	Hall call timed security map for front openings. Turns on hall call security for front openings on group landings 1 to 16	0	65535	0
HC Secure Timed BitmapF1	16-0974	Hall call timed security map for front openings. Turns on hall call security for front openings on group landings 17 to 32	0	65535	0
HC Secure Timed BitmapF2	16-0975	Hall call timed security map for front openings. Turns on hall call security for front openings on group landings 33 to 48	0	65535	0
HC Secure Timed BitmapF3	16-0976	Hall call timed security map for front openings. Turns on hall call security for front openings on group landings 49 to 64	0	65535	0
HC Secure Timed BitmapF4	16-0977	Hall call timed security map for front openings. Turns on hall call security for front openings on group landings 65 to 80	0	65535	0
HC Secure Timed BitmapF5	16-0978	Hall call timed security map for front openings. Turns on hall call security for front openings on group landings 81 to 96	0	65535	0
HC Secure Timed BitmapR0	16-1010	Hall call timed security map for rear openings. Turns on hall call security for rear openings on group landings 1 to 16	0	65535	0
HC Secure Timed BitmapR1	16-1011	Hall call timed security map for rear openings. Turns on hall call security for rear openings on group landings 17 to 32	0	65535	0
HC Secure Timed BitmapR2	16-1012	Hall call timed security map for rear openings. Turns on hall call security for rear openings on group landings 33 to 48	0	65535	0
HC Secure Timed BitmapR3	16-1013	Hall call timed security map for rear openings. Turns on hall call security for rear openingson group landings 49 to 64	0	65535	0
HC Secure Timed BitmapR4	16-1014	Hall call timed security map for rear openings. Turns on hall call security for rear openings on group landings 65 to 80	0	65535	0
HC Secure Timed BitmapR5	16-1015	Hall call timed security map for rear openings. Turns on hall call security for rear openings on group landings 81 to 96	0	65535	0
Independent Srv. Byp. Security	01-0065	Ignores car call security when on independent service	0	1	0
Job ID	24-0195	Job ID	0	16777 215	config
Payment Passcode	24-0196	Payment Passcode	0	16777 215	0
Rear Check In Security 0	16-0934	Rear door check in security for floors 1 to 16.	0	65535	0
Rear Check In Security 1	16-0935	Rear door check in security for floors 17 to 32.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
Rear Check In Security 2	16-0936	Rear door check in security for floors 33 to 48.	0	65535	0
Rear Check In Security 3	16-0937	Rear door check in security for floors 49 to 64.	0	65535	0
Rear Check In Security 4	16-0938	Rear door check in security for floors 65 to 80.	0	65535	0
Rear Check In Security 5	16-0939	Rear door check in security for floors 81 to 96.	0	65535	0
Rear Security Map 0	32-0012	Rear door car call security map for floors 1 to 32. Edit via SETUP | FLOORS | SECURITY (R).	0	42949 67295	config
Rear Security Map 1	32-0013	Rear door car call security map for floors 33 to 64. Edit via SETUP | FLOORS | SECURITY (R).	0	42949 67295	config
Rear Security Map 2	32-0014	Rear door car call security map for floors 65 to 96. Edit via SETUP | FLOORS | SECURITY (R).	0	42949 67295	config
Secure Timed BitmapF 0	32-0016	Front door car call timed security map for floors 1 to 32. Edit via SETUP | FLOORS | Timed CC security | Enable Floor (F)	0	42949 67295	config
Secure Timed BitmapF 1	32-0017	Front door car call timed security map for floors 33 to 64. Edit via SETUP | FLOORS | Timed CC security | Enable Floor (F)	0	42949 67295	config
Secure Timed BitmapF 2	32-0018	Front door car call timed security map for floors 65 to 96. Edit via SETUP | FLOORS | Timed CC security | Enable Floor (F)	0	42949 67295	config
Secure Timed BitmapR 0	32-0020	Rear door car call timed security map for floors 1 to 32. Edit via SETUP | FLOORS | Timed CC security | Enable Floor (R)	0	42949 67295	config
Secure Timed BitmapR 1	32-0021	Rear door car call timed security map for floors 33 to 64. Edit via SETUP | FLOORS | Timed CC security | Enable Floor (R)	0	42949 67295	config
Secure Timed BitmapR 2	32-0022	Rear door car call timed security map for floors 65 to 96. Edit via SETUP | FLOORS | Timed CC security | Enable Floor (R)	0	42949 67295	config
Weekday End Time for Timed CC Security	16-1000	Sets the Weekday End Time for Timed Car Call Security.	0	65535	0
Weekday End Time for Timed HC Security	16-0980	Sets the Weekday End Time for Timed Hall Call Security.	0	65535	0
Weekday Start Time for Timed CC Security	16-0999	Sets the Weekday Start Time for Timed Car Call Security.	0	65535	0
Weekday Start Time for Timed HC Security	16-0979	Sets the Weekday Start Time for Timed Hall call Security.	0	65535	0
Weekend End Time for Timed CC Security	16-1002	Sets the Weekend End Time for Timed Car Call Security.	0	65535	0

String	Number	Description	Min Value	Max Value	Default Value
Weekend End Time for Timed HC Security	16-0982	Sets the Weekend End Time for Timed Hall Call Security.	0	65535	0
Weekend Start Time for Timed CC Security	16-1001	Sets the Weekend Start Time for Timed Car Call Security.	0	65535	0
Weekend Start Time for Timed HC Security	16-0981	Sets the Weekend Start Time for Timed Hall Call Security.	0	65535	0

36 Speed Parameters

The table below lists the Speed parameters.

Table 35: Speed Parameters

String	Number	Description	Min Value	Max Value	Default Value
Accel Delay RLVL 10ms	08-0248	Sets the start of run delay between energizing the motor and commanding nonzero speed. This timer is used when starting a releveling run. This timer is set in 10 millisecond counts.	0	255	40
Acceptance A/D SPD	16-0862	Sets the car speed for A/D overspeed acceptance testing	0	65535	config
Acceptance Buffer SPD	16-0864	Sets the car speed for buffer acceptance testing.	0	65535	config
Acceptance ETSL Point	08-0029	Sets the testing point for ETSL acceptance test. Zero is farthest from the terminal while seven is the closest to the terminal.	0	7	0
Acceptance ETSL Point	08-0049	Sets the testing point for ETSL acceptance test. Zero is farthest from the terminal while seven is the closest to the terminal.	0	7	0
Access Speed (fpm)	08-0207	Sets the speed used when in access mode. The controller faults if this is higher than 150 fpm.	0	150	20
Auto Rescue Spd (fpm)	08-0143	Sets the max speed to use during auto rescue operation.	0	255	config
Bypass Term Ignores Term Spd	01-0283	When set to ON, while on Inspection, if Bypass Term Limit is turned ON, as the car approaches the soft limit distance of either terminal, terminal spd will be ignored and the controller will continue to command the inspection speed.	0	1	1
Construction OVSP Debounce	08-0159	Sets the time the car must be in a construction overspeed state before a fault (F255) is flagged. The units are in 10 ms counts.	0	100	10
Contract SPD	16-0872	Sets the max speed of the car.	10	1600	config
DISA Construction OVSP	01-0073	Disables the construction overspeed fault (F255)	0	1	1

String	Number	Description	Min Value	Max Value	Default Value
DR Open OVSP Debounce Limit	08-0117	Sets the time the car must be in a door open overspeed state before a fault (F67 to F74) is flagged. The units are in 10 ms counts.	0	100	10
EBrake On OVSP	01-0035	Enables dropping of the emergency brake for general overspeed faults. Enables the Latching General Overspeed fault (F65).	0	1	0
ENA FIXED RLVL	01-0271	When set to ON, the car's releveling runs will skip the standard Digital S-curve Technology ™ (U.S. Patent Pending) control and instead command a fixed speed throughout the releveling run. This fixed speed is MinRelevelSpeed (08-0195).	0	1	0
ENA SPD Dev Control	01-0069	Enables smoothing of the speed command pattern. This option should be left ON and is for test purposes only.	0	1	1
EP Leveling Distance	08-0038	Sets the distance from a floor at which the car transitions to leveling speed (16-908) while on E-Power profile runs. The E-Power profile is selected when in emergency power mode. When zero, the car does not transition to leveling speed. Units are in 0.2 inch counts.	0	122	5
EPower SPD fpm	16-0878	Sets the speed the car uses while in emergency power mode. Set to 10 fpm at minimum.	0	65535	10
EQ Hoistway Scan Speed	08-0225	Sets the speed used during EQ Hoistway Scan.	10	150	75
ETS OVSP Debounce Limit	08-0118	Sets the time the car must be in an ETS overspeed state before a fault (F681 to F696) is flagged. The units are in 10 ms counts.	0	100	10
ETSL OVSP Debounce Limit	08-0182	Sets the time the car must be in an ETSL overspeed state before a fault (F697 to F712) is flagged. The units are in 10 ms counts.	0	255	10
General OVSP Debounce Limit	08-0136	Sets the time the car must be in a general overspeed state before a fault (F64) is flagged. The units are in 10 ms counts.	0	255	10
Group Priority	08-0144	Sets the start of run delay between energizing the motor and commanding nonzero speed. This timer is used when on automatic Battery Rescue operation. This time is set in 100 millisecond counts.	0	255	30
Improved Max SPD	01-0039	When set to ON, a run's peak speed is checked in 5% steps instead of 10%. This along with turning off (01-174) makes the peak run speeds closer to the theoretical peak speed for the given Digital S-curve Technology ™ (U.S. Patent Pending) settings.	0	1	0
Inspection OVSP Debounce Limit	08-0116	Sets the time the car must be in an inspection overspeed state before a fault (F66) is flagged. The units are in 10 ms counts.	0	100	10
Inspection SPD	16-0873	Sets the speed used when in inspection mode, but not in access mode. The controller faults if this is higher than 150 fpm.	0	150	50

String	Number	Description	Min Value	Max Value	Default Value
Inspection Terminal SPD	16-0875	Sets the speed the car uses while in inspection and within the configured soft limit distance (16-897 and 16-898) of a terminal floor	0	30	15
Learn SPD	16-0874	Sets the speed used when in learn mode. Controller faults if this is higher than contract speed.	0	1600	25
Leveling SPD	16-0908	Sets the speed used in automatic operation when leveling into a floor. If leveling distance is zero, the leveling speed has no effect.	1	20	5
Leveling Decel 01fps	08-0046	Sets the rate of decel from leveling speed. Units are in 0.1 feet per second squared.	20	255	255
Min Accel SPD	16-0877	Sets the minimum commanded speed used during acceleration. Necessary for quick recovery from rollback and cases of limited drive control at low speeds.	1	25	1
Min Relevel Speed	08-0195	Sets the minimum acceleration speed at the start of a releveling run.	0	255	1
NTSD Speed	08-0047	Sets the target speed used during a NTS trip. Units are in feet per minute.	1	20	10
P1 Leveling Distance 5mm	08-0024	Sets the distance from a floor at which the car transition to leveling speed (16-908) while on normal profile runs. The normal profile is selected in all automatic operation runs longer than minimum short profile distance (08-147), with exception of emergency power. When zero, the car does not transition to leveling speed. Units are in 0.2 inch counts.	0	122	5
Rated Buffer Spd 10fpm	08-0183	Sets the rated buffer speed. Used for checking reduced speed buffer faults (F677 to F680) which evaluate if ETSL points are placed far enough out to prevent striking the buffer above the rated speed. Units are in 10 fpm counts.	0	255	config
Reduced Max SPD	01-0074	When set to ON, max run speed calculations are estimated based on 115% of the expected required run distance instead of 105%.	0	1	0
Soft Limit Distance Down (ft)	16-0898	Sets the distance away from the bottom terminal floor that the car switches to inspection terminal speed (16-875) during manual operation	0	65535	2
Soft Limit Distance Up (ft)	16-0897	Sets the distance away from the top terminal floor that the car switches to inspection terminal speed (16-875) during manual operation	0	65535	2
SPD Dev Percent	16-0904	Sets the percent difference between the command speed and the car speed required to trip a speed deviation fault (F9)	0	100	20
SPD Dev Threshold	16-0902	Sets the time speed deviation must be detected before a fault is set (F9).	0	65535	100
SPD Dev Timeout (10 ms)	16-0903	Sets the time speed deviation must be detected before a fault is set (F9)	0	65535	300
Traction Loss Threshold	16-0905	Sets the minimum car speed required for a traction loss fault (F7)	0	65535	100

37 Swing Mode Parameters

The table below lists the Swing Mode parameters.

Table 36: Swing Mode Parameters

String	Number	Description	Min Value	Max Value	Default Value
Answer Swing Calls on Normal	01-0291	Answer swing calls when car is on Normal	0	1	0
Swing Calls ENA	01-0082	Allows swing calls to activate swing operation	0	1	1
Swing Idle Time 1s	08-0161	If Swing mode is entered by a button press, this timer specifies how long to remain in Swing operation once the car is idle.	0	255	10
Swing Stay In Group	01-0083	When set to ON, the car stays in group during swing operation	0	1	0

38 Traction Parameters

The table below lists the Traction parameters.

Table 37: Traction Parameters

String	Number	Description	Min Value	Max Value	Default Value
Accel Delay Auto (ms)	16-0882	Sets the start of run delay between energizing the motor and commanding nonzero speed. This timer is used when on all automatic operation modes except Battery Rescue. This timer is set in millisecond counts.	0	65535	400
Accel Delay Insp (ms)	16-0883	Sets the start of run delay between energizing the motor and commanding nonzero speed. This timer is used when on inspection mode. This timer is set in millisecond counts.	0	65535	400
Keep Regen Output Active	01-0362	When enabled, Regen output is always active	0	1	0
Motor Overheat Latch	01-0251	When set to ON, the Motor Overheat fault will be a latching fault.	0	1	0
Regen Enable On Delay Sec	08-0274	Sets a delay time (in seconds) before activating the REGEN Enable output once all conditions are met.	0	255	0
Traction Loss Percent	16-0907	Sets the percent difference between the encoder speed and the car speed required to trip a traction loss fault (F7)	0	100	60
Traction Loss Threshold	16-0905	Sets the minimum car speed required for a traction loss fault (F7)	0	65535	100
Traction Loss Timeout (10 ms)	16-0906	Sets the time traction loss must be detected before a fault is set (F7)	0	65535	1000

39 VIP Parameters

The table below lists the VIP parameters.

Table 38: VIP Parameters

String	Number	Description	Min Value	Max Value	Default Value
ENA VIP T/O Alarm	01-0233	When set to ON, if VIP has timed out an alarm will be asserted.	0	1	0
Enable Single CC on VIP	01-0325	Enable single CC when VIP mode services car calls	0	1	0
Open Rear Door on VIP	01-0356	When enabled, in case there is a VIP call, the system should open both the front and rear doors.	0	1	0
VIP Car Call Timer (1s)	08-0051	Sets the time in seconds allowed to place a car call after entering VIP mode with the doors fully open.	5	255	5
Vip Idle Time 1s	08-0242	Sets the time while on VIP from when the car completes all car calls to servicing VIP Hall Calls.	0	255	10
VIP Priority Dispatching	01-0030	Places car into VIP/Priority Dispatching. Allows for multiple cars in VIP mode to dispatch as a separate group.	0	1	config
VIP_HC_ Transition Delay_50ms	08-0134	Sets the time between when a VIP car arrives at the VIP HC floor with its doors fully open, and when the car can begin taking CCs. This timer may need to be extended for jobsites where the VIP HC does not appear to clear. 50ms counts.	0	255	20

40 Wander Guard Parameters

The table below lists the Wander Guard parameters.

Table 39: Wander Guard Parameters

String	Number	Description	Min Value	Max Value	Default Value
Wander Guard Mask0	32-0032	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 1 to 32.	0	4294967295	0
Wander Guard Mask1	32-0033	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 33 to 64.	0	4294967295	0
Wander Guard Mask2	32-0034	Sets which floors the car should stop at with doors open when wander guard (aka Code Pink) mode is activated. Floors 65 to 96.	0	4294967295	0

41 XREG Parameters

The table below lists the XREG parameters.

Table 40: XREG Parameters

String	Number	Description	Min Value	Max Value	Default Value
Attendant Dispatch Timeout (1s)	08-0167	Sets the time the car has to respond to a destination assignment when on attendant service before it temporarily removes itself from group and the call is be reassigned. This prevents excessive delays in answering hall calls due to someone holding open the car door. If either the dispatch timeout (08-175) or dispatch offline (08-176) are set to zero, this feature is disabled. Units are in 1 second counts.	10	255	60
Dispatch Offline 1s	08-0176	Sets the time the car removes itself from the group after failing to take an assigned call. If either the dispatch timeout (08-175) or dispatch offline (08-176) are set to zero, this feature is disabled. Units are in 1 second counts.	0	255	10
Dispatch Timeout 1s	08-0175	Sets the time the car has to respond to a destination assignment before it temporarily removes itself from group and the call is be reassigned. This prevents excessive delays in answering hall calls due to someone holding open the car door. If either the dispatch timeout (08-175) or dispatch offline (08-176) are set to zero, this feature is disabled. Units are in 1 second counts.	10	255	30
Num XReg Cars	08-0177	When set to zero, disables XREG (cross registration or alien) car dispatching. When set to nonzero, enables XREG dispatching.	0	8	0
XREG Dest. Offline (10s)	08-0193	When nonzero, Sets how long (in 10-second increments) a car stays temporarily removed from the group after a dispatch timeout, allowing the call to be reassigned. When the countdown expires, the car is allowed back into the group. Setting parameter to 0 disables this offline behavior.	0	255	3
XREG Dest. Timeout (10s)	08-0192	When nonzero, Sets how long (in 10-second increments) an assigned XREG destination can wait before being considered timed out. If the per-car destination timer exceeds this limit, the code clears the timer, raises a dispatch timeout alarm for that car, and moves it into an offline state.	0	255	15
XREG ENA In Motion Assignment	01-0167	When set to ON, XREG assignments can be made even when the car reports it is in motion. This can help increase XREG car utilization and compensate for errors seen when the intended XREG car does not take the assigned call.	0	1	1
XREG Priority From Arrival Dir	01-0168	When set to ON, XREG car's direction priority are read from their last arrival lantern signal. If set to OFF,	0	1	0

String	Number	Description	Min Value	Max Value	Default Value
		direction priority is up for even car numbers and down for odd car numbers.			
XREG Recall Delay	08-0234	The estimated time an alien cross registration car will take to move to the recall floor on emergency power. Value is in 1 second counts.	0	255	30

Appendix – Conversion Chart

The table below provides decimal, hexadecimal, and binary equivalents.

Table 41: Conversion Chart

DEC	HEX	BIN	DEC	HEX	BIN
0	00	00000000	**43**	2B	00101011
1	01	00000001	**44**	2C	00101100
2	02	00000010	**45**	2D	00101101
3	03	00000011	**46**	2E	00101110
4	04	00000100	**47**	2F	00101111
5	05	00000101	**48**	30	00110000
6	06	00000110	**49**	31	00110001
7	07	00000111	**50**	32	00110010
8	08	00001000	**51**	33	00110011
9	09	00001001	**52**	34	00110100
10	0A	00001010	**53**	35	00110101
11	0B	00001011	**54**	36	00110110
12	0C	00001100	**55**	37	00110111
13	0D	00001101	**56**	38	00111000
14	0E	00001110	**57**	39	00111001
15	0F	00001111	**58**	3A	00111010
16	10	00010000	**59**	3B	00111011
17	11	00010001	**60**	3C	00111100
18	12	00010010	**61**	3D	00111101
19	13	00010011	**62**	3E	00111110
20	14	00010100	**63**	3F	00111111
21	15	00010101	**64**	40	01000000
22	16	00010110	**65**	41	01000001
23	17	00010111	**66**	42	01000010
24	18	00011000	**67**	43	01000011
25	19	00011001	**68**	44	01000100
26	1A	00011010	**69**	45	01000101
27	1B	00011011	**70**	46	01000110
28	1C	00011100	**71**	47	01000111
29	1D	00011101	**72**	48	01001000
30	1E	00011110	**73**	49	01001001
31	1F	00011111	**74**	4A	01001010
32	20	00100000	**75**	4B	01001011
33	21	00100001	**76**	4C	01001100
34	22	00100010	**77**	4D	01001101
35	23	00100011	**78**	4E	01001110
36	24	00100100	**79**	4F	01001111
37	25	00100101	**80**	50	01010000
38	26	00100110	**81**	51	01010001
39	27	00100111	**82**	52	01010010
40	28	00101000	**83**	53	01010011
41	29	00101001	**84**	54	01010100
42	2A	00101010	**85**	55	01010101

DEC	HEX	BIN	DEC	HEX	BIN
86	56	01010110	**134**	86	10000110
87	57	01010111	**135**	87	10000111
88	58	01011000	**136**	88	10001000
89	59	01011001	**137**	89	10001001
90	5A	01011010	**138**	8A	10001010
91	5B	01011011	**139**	8B	10001011
92	5C	01011100	**140**	8C	10001100
93	5D	01011101	**141**	8D	10001101
94	5E	01011110	**142**	8E	10001110
95	5F	01011111	**143**	8F	10001111
96	60	01100000	**144**	90	10010000
97	61	01100001	**145**	91	10010001
98	62	01100010	**146**	92	10010010
99	63	01100011	**147**	93	10010011
100	64	01100100	**148**	94	10010100
101	65	01100101	**149**	95	10010101
102	66	01100110	**150**	96	10010110
103	67	01100111	**151**	97	10010111
104	68	01101000	**152**	98	10011000
105	69	01101001	**153**	99	10011001
106	6A	01101010	**154**	9A	10011010
107	6B	01101011	**155**	9B	10011011
108	6C	01101100	**156**	9C	10011100
109	6D	01101101	**157**	9D	10011101
110	6E	01101110	**158**	9E	10011110
111	6F	01101111	**159**	9F	10011111
112	70	01110000	**160**	A0	10100000
113	71	01110001	**161**	A1	10100001
114	72	01110010	**162**	A2	10100010
115	73	01110011	**163**	A3	10100011
116	74	01110100	**164**	A4	10100100
117	75	01110101	**165**	A5	10100101
118	76	01110110	**166**	A6	10100110
119	77	01110111	**167**	A7	10100111
120	78	01111000	**168**	A8	10101000
121	79	01111001	**169**	A9	10101001
122	7A	01111010	**170**	AA	10101010
123	7B	01111011	**171**	AB	10101011
124	7C	01111100	**172**	AC	10101100
125	7D	01111101	**173**	AD	10101101
126	7E	01111110	**174**	AE	10101110
127	7F	01111111	**175**	AF	10101111
128	80	10000000	**176**	B0	10110000
129	81	10000001	**177**	B1	10110001
130	82	10000010	**178**	B2	10110010
131	83	10000011	**179**	B3	10110011
132	84	10000100	**180**	B4	10110100
133	85	10000101	**181**	B5	10110101

DEC	HEX	BIN	DEC	HEX	BIN
182	B6	10110110	**229**	E5	11100101
183	B7	10110111	**230**	E6	11100110
184	B8	10111000	**231**	E7	11100111
185	B9	10111001	**232**	E8	11101000
186	BA	10111010	**233**	E9	11101001
187	BB	10111011	**234**	EA	11101010
188	BC	10111100	**235**	EB	11101011
189	BD	10111101	**236**	EC	11101100
190	BE	10111110	**237**	ED	11101101
191	BF	10111111	**238**	EE	11101110
192	C0	11000000	**239**	EF	11101111
193	C1	11000001	**240**	F0	11110000
194	C2	11000010	**241**	F1	11110001
195	C3	11000011	**242**	F2	11110010
196	C4	11000100	**243**	F3	11110011
197	C5	11000101	**244**	F4	11110100
198	C6	11000110	**245**	F5	11110101
199	C7	11000111	**246**	F6	11110110
200	C8	11001000	**247**	F7	11110111
201	C9	11001001	**248**	F8	11111000
202	CA	11001010	**249**	F9	11111001
203	CB	11001011	**250**	FA	11111010
204	CC	11001100	**251**	FB	11111011
205	CD	11001101	**252**	FC	11111100
206	CE	11001110	**253**	FD	11111101
207	CF	11001111	**254**	FE	11111110
208	D0	11010000	**255**	FF	11111111
209	D1	11010001			
210	D2	11010010			
211	D3	11010011			
212	D4	11010100			
213	D5	11010101			
214	D6	11010110			
215	D7	11010111			
216	D8	11011000			
217	D9	11011001			
218	DA	11011010			
219	DB	11011011			
220	DC	11011100			
221	DD	11011101			
222	DE	11011110			
223	DF	11011111			
224	E0	11100000			
225	E1	11100001			
226	E2	11100010			
227	E3	11100011			
228	E4	11100100			