HYDRO:EVOLVED

PARAMETER LIST

VERSION 1.0

SMARTRISE

Document History

Date	Version	Summary of Changes
September 25, 2021	1.0	Initial Submittal

Page intentionally left blank

Table of Contents

Accessing Parameters 1
Adjust Parameters 1
Attendant Service Parameters 2
Battery Back-Up/Emergency Power Parameters 3
Car Call and Hall Call Parameters 5
Comm Port Parameters 8
COP Board Parameters 11
CT Board Parameters 12
DAD Parameters 13
Discrete Hall Lantern Parameters 14
Door Parameters 16
Earthquake Parameters 25
EMS Parameters 26
Expansion Board Parameters 27
Fire Parameters 41
Flood Parameters 50
Floor Parameters 51
Hall Board Parameters 51
Independent Service Parameters 61
Landing System Parameters 62
Miscellaneous Parameters 64
MR Board Parameters 75
NTS Parameters 76
OOS Parameters 81
Parking Parameters 82
Pick Delay Parameters 86

Riser Board Parameters 87
Sabbath Parameters 89
Security Parameters.....92
Soft Starter Parameters 96
Speed Parameters.....98
Swing Mode Parameters.....101
Valve Board Parameters 104
XREG Parameters.....105
Appendix – Conversion Chart.....108

List of Tables

Table 1: Attendant Service Parameters 2
Table 2: Battery Back-Up/Emergency Power Parameters 3
Table 3: Car Call and Hall Call Parameters 5
Table 4: Comm Port Parameters 8
Table 5: COP Board Parameters 11
Table 6: CT Board Parameters 12
Table 7: DAD Parameters 13
Table 8: Discrete Hall Lantern Parameters 14
Table 9: Door Parameters 16
Table 10: Earthquake 25
Table 11: EMS Parameters 26
Table 12: Expansion Board Parameters 27
Table 13: Fire Parameters 41
Table 14: Flood Parameters 50
Table 15: Floor Parameters 51
Table 16: Hall Board Parameters 59
Table 17: Independent Service Parameters 61
Table 18: Landing System Parameters 62
Table 19: Miscellaneous Parameters 64
Table 20: MR Board Parameters 75
Table 21: NTS Parameters 76
Table 22: OOS Parameters 81
Table 23: Parking Parameters 82
Table 24: Pick Delay Parameters 86
Table 25: Riser Board Parameters 87
Table 26: Sabbath Parameters 89
Table 27: Security Parameters 92
Table 28: Soft Starter Parameters 96
Table 29: Speed Parameters 98
Table 30: Swing Mode Parameters 101
Table 31: Valve Board Parameters 104
Table 32: XREG Parameters 105
Table 33: Conversion Chart 108

Page intentionally left blank

Accessing Parameters

The parameters in the Hydro:Evolved controller are Job configurable and found within the MAIN MENU.

NOTE: Parameters are set according to the job.

The Hydro:Evolved parameters can be adjusted by:

- OFF to ON
- Decimal format
- Hexadecimal format

Adjust Parameters

The parameters can be adjusted for a maximum decimal value of 255 – 65535.

To assist in converting the adjusted parameter, use the conversion chart (Appendix – Conversion Chart) to look up the corresponding value for the hexadecimal number required for the job.

Attendant Service Parameters

The table below lists the Attendant Service Parameters.

Table 1: Attendant Service Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0104	Attendant Direction With CCB	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

Battery Back-Up/Emergency Power Parameters

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

Table 2: Battery Back-Up/Emergency Power Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0127	Disable E-Power	When set to ON, the car ignores emergency power commands.	0	1	0
01-0157	Enable Regen On EP	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	0
01-0166	EPower Pretransfer Stall	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 delay cars both at the transfer into and out of emergency power.	0	1	0
08-0129	EPower Priority Car	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
08-0144	Accel Delay Rescue (100ms)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0145	Group Priority	Selects which group has priority during an Emergency Power event and organizes cars accordingly.	0	8	0
08-0186	Number EP Cars	Sets the number of cars allowed to run during Emergency Power operation.	1	8	1
08-0230	Maximum EP Group Cars	Maximum number of cars that can run in all interconnected groups during Emergency Power operation.	0	255	Job Specific
08-0232	Idle Time Before Recall	EPower privileged car idle time before Recall – Minutes.	0	3	2

Car Call and Hall Call Parameters

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

Table 3: Car Call and Hall Call Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0056	Auto Runs Terminal To Terminal R	Enables automatic rear car call runs between terminal floors when on Enter Car Calls menu on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
01-0074	Auto Runs Terminal To Terminal F	Enables automatic front car call runs between terminal floors when on Enter Car Calls menu on the MR board. This option should be left OFF and is for test purposes only.	0	1	0
01-0090	Custom Mode Ignored Car Call F	Configures custom mode to ignore front car calls during test.	0	1	0
01-0091	Custom Mode Ignored Car Call R	Configures custom mode to ignore rear car calls during test.	0	1	0
01-0092	Custom Mode Ignore Hall Call	Configures custom mode to ignore hall car calls during test.	0	1	0
01-0114	Random Hall Runs	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0160	Car To Lobby Express	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
01-0188	Enable Clear Car Call	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
01-0191	Suppress Reopen On GSW	When set to ON, reopening to hall calls are suppressed when the doors have already opened at a level, both GSW signals are made, and there is demand.	0	1	1
01-0194	Enable Never Drop Hall Calls	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
01-0232	AN Clr Reverse Dir CC	When set to ON, the car will clear out car calls entered in a direction opposite the car's current movement direction.	0	1	0
01-0245	Run Random Runs F	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0001	Door Dwell Time 1s	Sets the time car doors remain open when responding to car calls or open button requests. The units are in seconds.	0	255	3
08-0004	Door Dwell Hall Time 1s	Sets the time car doors remain open when responding to hall calls. The units are in seconds.	0	255	6
08-0050	CC Direct Change (50ms)	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 millisecond counts.	0	255	10
08-0166	Attendant Buzzer Duration	Specifies how long to sound the buzzer to alert the attendant that a hall call was pressed. Units are in 100 millisecond counts.	0	255	0
08-0189	Direct Change Delay (1s)	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
08-0204	Max Car Calls Per 250lb	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
08-0223	Max Car Calls Light Load	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
08-0242	VIP Idle Time 1s	Sets the time while on VIP from when the car completes all car calls to servicing VIP hall calls.	0	225	10

Comm Port Parameters

The table below lists the Comm Port Parameters.

Table 4: Comm Port Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0053	Enable Emergency Dispatch	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
01-0135	Enable CPLD Offline	When set to ON, communication from system CPLDs are monitored for timeout. The timeout will be determined by parameter 08-0173.	0	1	0
01-0156	Enable Dupar COP	Enables communication with Dupar COP.	0	1	Job Specific
01-0164	Enable Janus RS Fixture	Enables Janus RS485 fixtures on CT/COP boards. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	Job Specific
01-0201	Enable CPLD V3	When set to ON, it 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	0
01-0204	Enable DL20 CT	When set to ON, communication to DL-20 fixtures from the CT board is supported. Priority given to Janus emotive fixtures option (01-0164). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0205	Enable DL20 COP	When set to ON, communication to DL-20 fixtures from the COP board is supported. Priority given to Janus emotive fixtures option (01-0164). Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	Job Specific
01-0210	Enable EX51 CT	When set to ON, communication to EX-51 fixtures from CT board is supported. Priority given to Janus emotive fixtures option (01-0164).	0	1	Job Specific
01-0211	Enable EX51 COP	When set to ON, communication to EX-51 fixtures from the COP board is supported. Priority given to Janus emotive fixtures option (01-0164).	0	1	Job Specific
01-0240	Disable CAM ON HA	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
01-0243	Enable C4 Soft Starter	When set to ON at startup, the system expects to communicate with the C4 serial soft starter. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	Job Specific
01-0249	JackResync Ignore Calls	When set to ON, the calls do not cancel a jack resync in progress.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0274	Enable CAN Overflow Reset	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
08-0171	Debug KEB Baud Rate	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 kbps • 1= 9.6 kbps • 2 = 19.2 kbps • 3 = 38.4 kbps • 4 = 55.5 kbps	0	255	0
01-0285	Group Redundancy Check	When set to ON, the controller checks 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

COP Board Parameters

The table below lists the COP Board Parameters.

Table 5: COP Board Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0024 thru 16-0039	COP IN (1-16)	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
16-0416 thru 16-0431	COP OUT (1-16)	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

CT Board Parameters

The table below lists the CT Board Parameters.

Table 6: CT Board Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0008 thru 16-0023	CT IN (1-16)	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
16-0400 thru 16-0415	CT OUT (1-16)	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

DAD Parameters

The table below lists the DAD Parameters.

Table 7: DAD Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0235	Disable Virtual Input	When set to ON, virtual inputs from the DAD unit are ignored.	0	1	0
01-0244	Enable DAD Fault Resend	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

Discrete Hall Lantern Parameters

The table below lists the Discrete Hall Lantern Parameters.

Table 8: Discrete Hall Lantern Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0175	Arrival Lantern Door 1	When set to ON, set 1 of discrete arrival lantern outputs are for rear arrival. Set with 08-0197.	0	1	0
01-0176	Arrival Lantern Door 2	When set to ON, set 2 of discrete arrival lantern outputs are for rear arrival. Set with 08-0198.	0	1	0
01-0177	Arrival Lantern Door 3	When set to ON, set 3 of discrete arrival lantern outputs are for rear arrival. Set with 08-0199.	0	1	0
01-0178	Arrival Lantern Door 4	When set to ON, set 4 of discrete arrival lantern outputs are for rear arrival. Set with 08-0200.	0	1	0
01-0179	Arrival Lantern Door 5	When set to ON, set 5 of discrete arrival lantern outputs are for rear arrival. Set with 08-0201.	0	1	0
08-0168	Arrival Lantern Update Time	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
08-0197	Arrival Lantern FLR 1	Specifies the floor index for set 1 of discrete arrival lantern outputs. Set with 01-0175.	0	255	0
08-0198	Arrival Lantern FLR 2	Specifies the floor index for set 2 of discrete arrival lantern outputs. Set with 01-0176.	0	255	0
08-0199	Arrival Lantern FLR 3	Specifies the floor index for set 3 of discrete arrival lantern outputs. Set with 01-0177.	0	255	0
08-0200	Arrival Lantern FLR 4	Specifies the floor index for set 4 of discrete arrival lantern outputs. Set with 01-0178.	0	255	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0201	Arrival Lantern FLR 5	Specifies the floor index for set 5 of discrete arrival lantern outputs. Set with 01-0179.	0	255	0
08-0213	Hall Lantern Mask	Sets which hall lantern function groups are active. Each bit represents a different Hall board function. Power must be cycled to the MR board after setting this parameter to enable the feature.	0	255	Job Specific
08-0214	Rear Lantern Mask	Sets which hall lantern function groups are used for rear lanterns. Each bit represents a different Hall board function.	0	255	Job Specific

Door Parameters

The table below lists the Door Parameters.

Table 9: Door Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0033	Enable Rear Doors	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	Job Specific
01-0041	Enable Releveling	Enables releveling when car is in door zone but outside the configured releveling zone (08-0158).	0	1	1
01-0045	DZ Stuck High Test	Testing of DZ stuck high software solution. When ON, checks CTA for position rather than MRA.	0	1	0
01-0048	Enable Freight Doors	Enable freight doors. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	1	0
01-0076	Door DC On Run	Activates door close output when in motion.	0	1	0
01-0079	OOS Rear Opening	Sets which door to open when recalled on out of service mode. Uses the rear door when set ON.	0	1	0
01-0081	OOS Set Door Open	Keeps door open when at floor in out of service mode.	0	1	0
01-0084	Locks Jumped On DOL	When set to ON, detects jumper on open DOL instead of GSW.	0	1	0
01-0088	Custom Mode Allowed Outside Door Zone	Configures custom mode to allow outside door zone during test.	0	1	0
01-0093	Custom Mode Auto Door Open	Configures custom mode to automatically open the door during test.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0094	Custom Mode Door Hold	Configures custom mode to hold the door during test.	0	1	0
01-0095	Custom Mode Ignore DCB	Configures custom mode to ignore door close buttons during test.	0	1	0
01-0096	Custom Mode Force Doors Open Or Closed	Configures custom mode to allow for forcibly open or close doors during test.	0	1	0
01-0108	Door DC On Closed State	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
01-0109	Door DO On Opened State	Activates door open output while doors are in an open state. This parameter is set via SETUP | DOOR SETUP | DO ON OPEN.	0	1	0
01-0115	CT ST SW Kills Doors	When set to ON, door outputs are suppressed when the Car Top Stop switch is active.	0	1	0
01-0118	Disable Doors On HA	When set to ON, door outputs on hoistway access inspection are suppressed.	0	1	0
01-0120	Enable AT400 DR	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
01-0132	Parking With Door Open	When set to ON, door is held open when the car is parked.	0	1	0
01-0134	No Demand Doors Open	When set to ON, car doors are held open when the car is idle.	0	1	0
01-0151	Enable Insp DO Out Of DZ	Enables opening doors while outside of a door zone during inspection.	0	1	0
01-0159	Enable Open Doors Alarm	Enables a system alarm signaling when gate switch and locks are open during a run (A629).	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0165	Learn Opening Time	When set to ON, if preflight is disabled (01-0064), the car records the door opening time of its next run then stores it for use when preflight is enabled (08-0187).	0	1	0
01-0189	Enable Dual PHE Test	Enables Dual PHE testing for freight doors.	0	1	0
01-0193	Enable Passing Lobby DO	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
01-0208	Fixed Hall CAM	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	Job Specific
01-0209	Hall Closed Req for CAM	When set to ON, the CAM does not energize if any hall door is open.	0	1	Job Specific
01-0222	Freight Test PHE	When set to ON, if either door is set to Freight (08-0012 or 08-0013 set to 1), the door requires photoeye testing prior to closing the doors. When set to OFF and for non-freight doors, this check is bypassed. This feature is required for Peelle door operators.	0	1	Job Specific
01-0237	Disable Door Jumper Check	When set to ON, door jumper check is disabled. This should be turned OFF to enable Door Lock Monitoring.	0	1	Job Specific
01-0238	Nudge Without Onward Demand	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.	0	1	Job Specific
01-0241	Disable Rear DOB	When set to ON, the rear DOB is disabled.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0247	MLT Fire1 DC	When set to ON, if the car hits the MLT limit, the doors will auto close after a Phase 1 recall.	0	1	0
01-0255	DO On Arrival Only	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.	0	1	Job Specific
01-0256	Infinite Dwell Time	For Front Doors – When set to ON, configured dwell time is bypassed and doors remain open. Used for swing/freight doors where door control is handled by the door operator (for example, Courion door operator or Peelle wired door operator).	0	1	Job Specific
01-0264	Disable DCB ON Normal	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
01-0265	Disable Closed Contacts DOB	When set to OFF, if a closed contact is open, the car sees this as a DOB press. When set to ON, this reopening behaviour 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	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0276	DO on Arrival Only R	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	Job Specific
01-0277	Infinite Dwell Time R	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 (for example, Courion door operator or Peelle wired door operator).	0	1	Job Specific
01-0279	Jumper on GSW DOL	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
01-0294	Automatic Freight Hall Door	Set when an automatic hall freight door is being used.	0	1	0
08-0000	Door Recall Time 1s	Sets the time the doors remain open after performing a recall on an emergency modes like Fire and Battery Lowering. See A17 2019, 3.27.2.	0	15	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0002	Door Stuck Time 1s	Sets the time limit for a door to complete an opening or closing request before faulting. The units are in seconds.	0	255	30
08-0003	Door Nudge Time 1s	Sets the time doors 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
08-0005	Door Dwell ADA Time 1s	Sets the time car doors remain open when responding to ADA. The units are in seconds.	0	255	30
08-0006	Door Dwell Hold Time 1s	Sets the time car doors remain open when responding to door hold button requests. The units are in seconds.	0	255	0
08-0007	Door Dwell Sabbath Time 1s	Sets the time car doors remain open while in Sabbath operation. The units are in seconds.	0	255	3
08-0008	Door Jumper Timeout 100ms	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
08-0009	FDR Contacts Timeout 1s	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	0
08-0010	FDR GSW Locks Timeout 1s	Sets the timeout between GSW and locks. If value is zero, timeout is set to 500 ms. The units are in seconds.	0	255	0
08-0011	Lobby Dwell Time 1s	If set to nonzero, overrides the hall dwell time when at the lobby floor. The lobby floor is the main fire recall floor (08-0111).	0	255	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0012	Door Type (F)	Selects door type for front doors • 0 = Automatic • 1 = Freight • 2 = Manual • 3 = Swing Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	255	Job Specific
08-0013	Door Type (R)	Selects door type for rear doors • 0 = Automatic • 1 = Freight • 2 = Manual • 3 = Swing Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	0	255	Job Specific
08-0014	Door Close Buzzer 100ms	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
08-0097	HA Top Opening	When nonzero, configures the top hoistway access to use the rear opening.	0	255	0
08-0098	HA Bottom Opening	When nonzero, configures the bottom hoistway access to use the rear opening.	0	255	0
08-0141	AN Max Opens Without PHE	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0148	Door Hourly Fault Limit	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 remains 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
08-0185	Door Check Time 100ms	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 millisecond counts. If zero, defaults to 1 second.	0	255	3
08-0187	Door Opening Time (100ms)	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 (01-0064) and the learn opening time bit on (01-0165). This can help improve dwell time delays when preflight is on. If set to zero, this option is disabled.	0	255	0
16-0910	PreOpening Distance	Sets the distance from a floor to start preopening doors. If zero, preopening is disabled. Units are in 0.019 inch counts.	0	610	26
32-0000	Front Opening Map 0	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	4294967295	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
32-0004	Rear Opening Map 0	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	4294967295	Job Specific
32-0032	Wander Guard Mask 0	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

Earthquake Parameters

The table below lists the Earthquake Parameters.

Table 10: Earthquake

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0042	Enable EQ	Enables seismic and counterweight derail modes of operation.	0	1	0
01-0246	EQ Buzzer	Turns the Auto Operation Buzzer ON if on Seismic.	0	1	0
01-0287	EQ Buzz Until Safe	When set to ON, if EQ Buzzer (01-0246) is also set to ON, the buzzer also goes on when the car goes into Seismic or CW Derail. The buzzer stops when the car has successfully recalled to a floor and fully opened the doors.	0	1	0

EMS Parameters

The table below lists the EMS Parameters.

Table 11: EMS Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0097	EMS Allow Ph2 Without Ph1	Allows activation of Medical Phase 2 even if the car was never placed on Phase 1.	0	1	0
01-0098	EMS Exit Ph2 At Any FLR	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
01-0292	Close Door on EMS2	When set to ON, while the car is on EMS Phase 2, the door closes as soon as the car call is received. If OFF, after receiving the car call, the door closes by pressing the DCB.	0	1	0
08-0163	EMS1 Exit Delay	When a car is called to a landing by an EMS Phase 1 key, this parameter specifies how long it remains there before returning to normal operation if no one places it on EMS Phase 2. Units are in seconds.	30	255	60
08-0164	EMS2 Exit Delay	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

Expansion Board Parameters

The table below lists the Expansion Board Parameters.

Table 12: Expansion Board Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0072 thru 16-0079	EXP01 IN (1-8)	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
16-0080 thru 16-0087	EXP02 IN (1-8)	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
16-0088 thru 16-0095	EXP03 IN (1-8)	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
16-0096 thru 16-0103	EXP04 IN (1-8)	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
16-0104 thru 16-0111	EXP05 IN (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0112 thru 16-0119	EXP06 IN (1-8)	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
16-0120 thru 16-0127	EXP07 IN (1-8)	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
16-0128 thru 16-0135	EXP08 IN (1-8)	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
16-0136 thru 16-0143	EXP09 IN (1-8)	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
16-0144 thru 16-0151	EXP10 IN (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0152 thru 16 0159	EXP11 IN (1-8)	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
16-0160 thru 16-0167	EXP12 IN (1-8)	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
16-0168 thru 16-0175	EXP13 IN (1-8)	Set the Expansion13 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
16-0176 thru 16-0183	EXP14 IN (1-8)	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
16-0184 thru 16-0191	EXP15 IN (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0192 thru 16-0199	EXP16 IN (1-8)	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
16-0200 thru 16-0207	EXP17 IN (1-8)	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
16-0208 thru 16-0215	EXP18 IN (1-8)	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
16-0216 thru 16-0223	EXP19 IN (1-8)	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
16-0224 thru 16-0231	EXP20 IN (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0232 thru 16-0239	EXP21 IN (1-8)	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
16-0240 thru 16-0247	EXP22 IN (1-8)	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
16-0248 thru 16-0255	EXP23 IN (1-8)	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
16-0256 thru 16-0263	EXP24 IN (1-8)	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
16-0264 thru 16-0271	EXP25 IN (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0272 thru 16-0279	EXP26 IN (1-8)	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
16-0280 thru 16-0287	EXP27 IN (1-8)	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
16-0288 thru 16-0295	EXP28 IN (1-8)	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
16-0296 thru 16-0303	EXP29 IN (1-8)	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
16-0304 thru 16-0311	EXP30 IN (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0312 thru 16-0319	EXP31 IN (1-8)	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
16-0320 thru 16-0327	EXP32 IN (1-8)	Set the Expansion32 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
16-0328 thru 16-0335	EXP33 IN (1-8)	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
16-0336 thru 16-0343	EXP34 IN (1-8)	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
16-0344 thru 16-0351	EXP35 IN (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0352 thru 16-0359	EXP36 IN (1-8)	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
16-0360 thru 16-0367	EXP37 IN (1-8)	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
16-0368 thru 16-0375	EXP38 IN (1-8)	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
16-0376 thru 16-0383	EXP39 IN (1-8)	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
16-0384 thru 16-0391	EXP40 IN (1-8)	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
16-0464 thru 16-0471	EXP01 OUT (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0472 thru 16-0479	EXP02 OUT (1-8)	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
16-0480 thru 16-0487	EXP03 OUT (1-8)	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
16-0488 thru 16-0495	EXP04 OUT (1-8)	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
16-0496 thru 16-0503	EXP05 OUT (1-8)	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
16-0504 thru 16-0511	EXP06 OUT (1-8)	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
16-0512 thru 16-0519	EXP07 OUT (1-8)	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
16-0520 thru 16-0527	EXP08 OUT (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0528 thru 16-0535	EXP09 OUT (1-8)	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
16-0536 thru 16-0543	EXP10 OUT (1-8)	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
16-0544 thru 16--0551	EXP11 OUT (1-8)	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
16-0552 thru 16-0559	EXP12 OUT (1-8)	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
16-0560 thru 16-0567	EXP13 OUT (1-8)	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
16-0568 thru 16-0575	EXP14 OUT (1-8)	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
16-0576 thru 16-0583	EXP15 OUT (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0584 thru 16-0591	EXP16 OUT (1-8)	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
16-0592 thru 16-0599	EXP17 OUT (1-8)	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
16-0600 thru 16-0607	EXP18 OUT (1-8)	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
16-0608 thru 16-0615	EXP19 OUT (1-8)	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
16-0616 thru 16-0623	EXP20 OUT (1-8)	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
16-0624 thru 16-0631	EXP21 OUT (1-8)	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
16-0632 thru 16-0639	EXP22 OUT (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0640 thru 16-0647	EXP23 OUT (1-8)	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
16-0648 thru 16-0655	EXP24 OUT (1-8)	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
16-0656 thru 16-0663	EXP25 OUT (1-8)	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
16-0664 thru 16-0671	EXP26 OUT (1-8)	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
16-0672 thru 16-0679	EXP27 OUT (1-8)	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
16-0680 thru 16-0687	EXP28 OUT (1-8)	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
16-0688 thru 16-0695	EXP29 OUT (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0696 thru 16-0703	EXP30 OUT (1-8)	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
16-0704 thru 16-0711	EXP31 OUT (1-8)	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
16-0712 thru 16-0719	EXP32 OUT (1-8)	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
16-0720 thru 16-0727	EXP33 OUT (1-8)	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
16-0728 thru 16-0735	EXP34 OUT (1-8)	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
16-0736 thru 16-0743	EXP35 OUT (1-8)	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
16-0744 thru 16-0751	EXP36 OUT (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0752 thru 16-0759	EXP37 OUT (1-8)	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
16-0760 thru 16-0767	EXP38 OUT (1-8)	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
16-0768 thru 16-0775	EXP39 OUT (1-8)	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
16-0776 thru 16-0783	EXP40 OUT (1-8)	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

Fire Parameters

The table below lists the Fire Parameters.

Table 13: Fire Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0000	Fire Main Use Rear Door	Sets the door that opens after performing a main floor fire recall. Uses the rear door if set to ON.	0	1	Job Specific
01-0001	Fire Alt Use Rear Door	Sets the door that opens after performing an alternate floor fire recall. Uses the rear door if set to ON.	0	1	Job Specific
01-0002	Fire MAIN Use Alt FLR	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	Job Specific
01-0003	Fire Alt Use Alt FLR	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	Job Specific
01-0004	Fire MR Use Alt FLR	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	Job Specific
01-0005	Fire HW Use Alt FLR	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	Job Specific
01-0006	Fire Main Flash Fire Hat	Flashes the fire hat output when the Main Smoke input is active.	0	1	Job Specific
01-0007	Fire Alt Flash Fire Hat	Flashes the fire hat output when the Alternate Smoke input is active.	0	1	Job Specific
01-0008	Fire MR Flash Fire Hat	Flashes the fire hat output when the Machine Room Smoke input is active.	0	1	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0009	Fire HW Flash Fire Hat	Flashes the fire hat output when the Hoistway Smoke input is active.	0	1	Job Specific
01-0010	Fire Main Shunt On Recall	Activates fire shunt output during Phase 1 recall if triggered by Main Smoke input.		1	Job Specific
01-0011	Fire Alt Shunt On Recall	Activates fire shunt output during Phase 1 recall if triggered by Alternate Smoke input.	0	1	Job Specific
01-0012	Fire MR Shunt On Recall	Activates fire shunt output during Phase 1 recall if triggered by Machine Room Smoke input.	0	1	Job Specific
01-0013	Fire HW Shunt On Recall	Activates fire shunt output during Phase 1 recall if triggered by Hoistway Smoke input.	0	1	Job Specific
01-0014	Fire Reset To Exit Phase1	The Fire Reset Key input must be active to exit Phase 1.	0	1	Job Specific
01-0015	Fire Disable Door Restrictor Phase2	When set to ON, the door restrictor outputs are always turned OFF when the car is on Fire Phase 2.	0	1	Job Specific
01-0016	Fire Phase2 Swing Reopen Disable	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	Job Specific
01-0017	Fire Phase 2 Exit Only At Recall Flr	The car must be at recall floor to exit Fire Phase 2.	0	1	Job Specific
01-0018	Fire Ignore Locks Jumped On Phase2	Bypasses locks when on Fire Phase 2.	0	1	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0019	Fire Stop Switch Kills Door Operator	Suppress door outputs when Fire Stop Switch input is active. Also, with this parameter ON during fire recall, the 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	Job Specific
01-0020	Fire DOL To Exit Phase2	The car's Door Open Limit input must be active to exit Phase 2.	0	1	Job Specific
01-0022	Fire Ok To Stop Outside DZ	N/A	0	1	Job Specific
01-0023	Fire Allow Reset With Active Smoke	Allows Fire Phase 1 reset with active smokes.	0	1	Job Specific
01-0024	Fire Hat Flash Ignore Order	Flashes fire hat for any active smoke. If OFF, only the first active smoke is checked.	0	1	Job Specific
01-0025	Fire Momentary DCB	When set to ON, when the car is on Fire Phase 2 operation and the in car Fire Key switch is set to ON, pressing the DCB just momentarily causes the door to close. When set to OFF, the DCB must be held until the door reaches the fully closed state, or the door will automatically reopen.	0	1	Job Specific
01-0026	Fire Flash Lobby Lamp	Enables flashing of the lobby fire lamp output.	0	1	Job Specific
01-0027	Fire Remote And Main To Override Smoke	Both remote and Main Fire Keyswitch must be on to trigger main floor recall.	0	1	Job Specific
01-0028	Fire Enable PHE On Phase2	Enables photo eye during Fire Phase 2.	0	1	Job Specific
01-0029	Fire Door Open On Hold	Hold doors open when on Fire Phase 2 hold.	0	1	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0031	Fire Pit Flash Fire Hat	Flashes the fire hat output when the Pit Smoke input is active.	0	1	Job Specific
01-0032	Fire Pit Shunt On Recall	Activates fire shunt output during Phase 1 recall if triggered by Pit Smoke input.	0	1	Job Specific
01-0036	Fire Pit Use Alt FLR	Sets which recall floor to use when the Pit Smoke input is active. Uses the alternate floor if set to ON.	0	1	Job Specific
01-0040	Disable Bypass IC Stop	When set to ON, bypassing of IC Stop switch is disabled. When set to OFF, the IC Stop switch is bypassed during Fire Phase 2 recall, Fire Phase 1 recall, or EMS Phase 1 recall. For jobs that are compliant with A17-2016 code.	0	1	Job Specific
01-0046	Courion Fire1 Active	When turned ON, the output Fire I Active stays asserted during the entirety of Fire Phase 1 (This is required for Courion Door Operators). If turned OFF, the output Fire I Active asserts until the car has finished Fire Phase 1 Recalling (This is required for PEELE Door Operators).	0	1	0
01-0051	Fire Overrides EMS Ph2	If turned ON, Fire Service will take priority over EMS2.	0	1	0
01-0100	Fire Overrides EMS Ph1	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
01-0119	EMS Fire 1 Active	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	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0131	BYP Fire Service	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
01-0181	Enable Alt MR	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	Job Specific
01-0182	Fire MR 2 Flash Fire Hat	Flashes the fire hat output when the Machine Room 2 Smoke input is active.	0	1	Job Specific
01-0183	Fire HW 2 Flash Fire Hat	Flashes the fire hat output when the Hoistway 2 Smoke input is active.	0	1	Job Specific
01-0184	Fire MR 2 Use Alt FLR	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	Job Specific
01-0185	Fire HW 2 Use Alt FLR	Sets which recall floor to use when the Hoistway 2 Smoke input is active. Uses the alternate floor if set to ON.	0	1	Job Specific
01-0186	Fire MR 2 Shunt On Recall	Activates Fire Shunt output during Phase 1 recall if triggered by Machine Room 2 Smoke input.	0	1	Job Specific
01-0187	Fire HW 2 Shunt On Recall	Activates Fire Shunt output during Phase 1 recall if triggered by Hoistway 2 Smoke input.	0	1	Job Specific
01-0200	Fire Key FlashFireHat	Flashes the fire hat output when the fire recall key is active.	0	1	Job Specific
01-0203	Fire Recall to Main After Phase 2	When set to ON, the car will fire-recall to the main floor after exiting Fire Phase 2.	0	1	0
01-0221	Fire2 Swing Reopen	When set to ON, opening a swing hall closed contact causes the doors to reopen.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0227	Fire Disable Latch Smokes	When set to OFF, the controller remembers the first smoke input it saw tripped until you exit fire service. The smoke is remembered even across a power cycle. Most jobs except NYC require this. This parameter is usually off for any controller that has a lobby fire key switch with a RESET position.	0	1	Job Specific
01-0228	Fire Disable Latch Lobby Key	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	Job Specific
01-0229	Fire Disable Latch Main Recall	When set to OFF, if the car ever recalls to the main fire recalls floor, then it cannot recall to the alternate floor until fire service has been reset.	0	1	Job Specific
01-0231	Fire Reset On Transition	When set to ON, this resets Fire Phase 1 on keyswitch position transition from RESET to OFF.	0	1	1

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0267	EPWR Disable Fire 1 Lamp	When set to ON, the in car fire lamp behaves as specified in the A17-2019 code. For A17-2019, 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 A17-2010, the in car fire lamp should be suppressed when on fire and the car is not selected to run. For A17-2010, the in car fire lamp should be suppressed when on fire and the car is not selected to run. See A17 2.27.2.4.4 (b).	0	1	0
01-0268	Fire Exit Ph2 Without Ph1 Rcl	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. When set to OFF, the car will return to the fire recall floor before returning to normal operation.	0	1	0
01-0270	Battery Power Fire1 DZ Stop	When set to ON, if the car is on fire, battery power is low, and the car is above the fire recall floor, the car will stop at intermediate door zones before going to the recall floor.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0275	Enable Phase1 EP Car Select	When set to ON, allows for a car to be manually selected to remain operational during Fire Phase 1. **NOTE**: Manual selection overrides automatic selection. Enable support for A17.1 2008-2019 Section 2.27.2.4.5 Emergency Power Fire Phase 1 Car Selection.	0	1	Job Specific
01-0282	Fire Nudge With No Buzzer	When set to ON, while on Fire Service, the car will not assert the buzzer when nudge command is asserted.	0	1	0
01-0290	Fire 2 Active Always On During PH2	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 drops, and Fire 1 Active asserts. This is used for non-Peele non-automatic doors that require Fire 1 Active and Fire 2 Active to control the door operation during Fire.	0	1	0
08-0111	Fire Main Recall FLR	Sets the main fire recall floor. This value is zero-based, so the bottom most floor is zero.	0	255	Job Specific
08-0112	Fire Alternate Recall FLR	Sets the alternate fire recall floor. This value is zero-based, so the bottom most floor is zero.	0	255	Job Specific
08-0224	Attendant Fire Recall Delay (1s)	Sets the delay before beginning fire recall when the car is parked at floor on attendant or independent service.	10	30	20
08-0233	Fire Recall Key Debounce 100ms	Debounce counter for fire recall keyswitch inputs. Value is in 100 millisecond counts.	0	127	10

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0251	Low Battery Fire 2 Run Limit	When car is on Fire Phase 2 travelling above the recall fire floor and battery power is triggered, the car Estops, then the value in this parameter will decide how many car calls the car will accept (car calls will always be the floor below the floor the car is currently at), then the car will return to the recall fire floor and fault out.	0	255	1

Flood Parameters

The table below lists the Flood Parameters.

Table 14: Flood Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0102	Flood Override Fire	Allows flood operation to take priority over fire operation.	0	1	0
01-0103	Flood Okay To Run	Allows car to continue to run above the configured flood sensor floor (08-0165).	0	1	0
01-0278	Flood Flash Lamp	When turned ON, if the active mode of operation is Flood, the flood lamp will flash instead of being asserted high.	0	1	0
08-0165	Number of Flood FLRs	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 cannot go to bottom two floors, etc.	0	255	Job Specific

Floor Parameters

The table below lists the Floor Parameters.

Table 15: Floor Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0062	Auto Runs FLR To FLR	Enables automatic one floor 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
01-0077	Auto Runs FLR To FLR R	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
01-0099	Auto Runs FLR To FLR F	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
01-0110	Run Random Runs R	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
01-0144	3-Digit PI	When set to ON, 3-digit PIs are used.	0	1	0
01-0149	Disable CE FLR Plus 1	When set to ON, the floor index sent to CE driver boards start at zero instead of one. Used for jobs where the annunciator was misconfigured.	0	1	0
01-0171	Disable PI OOS	When set to ON, OOS does not flash on the PI when the car is out of group.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0173	Disable DOB Secured FLR	When set to ON, DOB is ignored for secured floors.	0	1	0
01-0202	Disable Dest Loss Stop	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
01-0252	Learn Improved	When set to ON, learn operation is performed on the car top instead of the machine room. This can improve the accuracy of learned floor positions.	0	1	0
01-0289	Alt Recall Lamp Lobby DOL	When set to ON, the At Recall output asserts when the car is at the lobby floor defined at 08-0122, and has the doors fully opened.	0	1	0
08-0092	Number of FLRs	Sets the number of floors. Requires system power cycle after changing to clear the "Need To Cycle Pwr" fault (F83/F717/F718).	2	96	Job Specific
08-0094	HA Top Allowed Distance	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
08-0095	HA Top FLR	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 (08-0093).	0	255	255
08-0096	HA Bottom FLR	Sets the bottom hoistway access floor. This value is zero-based, so the bottom most floor is zero.	0	255	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0110	HA Bottom Allowed Distance	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
08-0122	Car To Lobby FLR	Sets the floor the car moves to when the Car to Lobby input is activated. This value is zero-based.	0	255	0
08-0140	Releveling Delay (50ms)	Sets a delay before performing releveling. This timer can be helpful if a car bounces due to rope stretch. Units are in 50 millisecond counts.	0	255	10
08-0156	Relevel Offset Up 0.5mm	Reduces the releveling destination floor count by this value when approaching a floor from below.	0	255	0
08-0157	Relevel Offset Down 0.5mm	Reduces the releveling destination floor count by this value when approaching a floor from above.	0	255	0
08-0158	Releveling Zone Size	Sets the size of the releveling zone (dead zone) in 0.02 inch position counts. When the car is greater than this distance from the nearest learned floor position, and in door zone, it will attempt to relevel.	13	100	26
08-0169	Dest. Offset Up 0.5mm	Reduces the destination floor count by this value when approaching a floor from below.	0	255	0
08-0170	Dest. Offset Down 0.5mm	Reduces the destination floor count by this value when approaching a floor from above.	0	255	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0172	Test Runs Dwell Time	Sets the dwell time used when testing the car using automatic call entry modes: Floor to floor (01-0062) and random runs (01-0114). Units are in seconds.	0	255	0
08-0174	Group Landing Offset	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	Job Specific
08-0202	Check In Floor	Sets Check in Floor for when secure floors CC are latched.	0	255	0
08-0203	Move Idle Car Timer (10min)	Sets the amount of time the car is allowed to stay idle before it is forced to move to a random floor. This feature is used for 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
08-0231	Shuttle Mode Floor	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
08-0239	Estimate Floor to Floor Time	Estimated average floor to floor time for this car. Used for destination dispatch call assignment calculations. This value must be manually entered by a user. Units are in seconds.	0	255	10
16-0927	Buffer Distance 0.5mm	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0958	Short Floor Opening 0	Sets which floors are 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
16-0959	Short Floor Opening 1	Sets which floors are 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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0960	Short Floor Opening 2	Sets which floors are 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
16-0961	Short Floor Opening 3	Sets which floors are 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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0962	Short Floor Opening 4	Sets which floors are 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
16-0963	Short Floor Opening 5	Sets which floors are 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
16-0983	Access Code Floor 1F	Sets the Access Code for Floor 1 Front.	0	65535	0
16-0984	Access Code Floor 2F	Sets the Access Code for Floor 2 Front.	0	65535	0
16-0985	Access Code Floor 3F	Sets the Access Code for Floor 3 Front.	0	65535	0
16-0986	Access Code Floor 4F	Sets the Access Code for Floor 4 Front.	0	65535	0
16-0987	Access Code Floor 5F	Sets the Access Code for Floor 5 Front.	0	65535	0
16-0988	Access Code Floor 6F	Sets the Access Code for Floor 6 Front.	0	65535	0
16-0989	Access Code Floor 7F	Sets the Access Code for Floor 7 Front.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0990	Access Code Floor 8F	Sets the Access Code for Floor 8 Front.	0	65535	0
16-0991	Access Code Floor 1R	Sets the Access Code for Floor 1 Rear.	0	65535	0
16-0992	Access Code Floor 2R	Sets the Access Code for Floor 2 Rear.	0	65535	0
16-0993	Access Code Floor 3R	Sets the Access Code for Floor 3 Rear.	0	65535	0
16-0994	Access Code Floor 4R	Sets the Access Code for Floor 4 Rear.	0	65535	0
16-0995	Access Code Floor 5R	Sets the Access Code for Floor 5 Rear.	0	65535	0
16-0996	Access Code Floor 6R	Sets the Access Code for Floor 6 Rear.	0	65535	0
16-0997	Access Code Floor 7R	Sets the Access Code for Floor 7 Rear.	0	65535	0
16-0998	Access Code Floor 8R	Sets the Access Code for Floor 8 Rear.	0	65535	0
24-0000 thru 24-0095	PI_0 thru P1_95	The 2-3 character ASCII string to send to floor displays.	0	16777215	Job Specific
24-0096 thru 24-0191	LRN FLR 0 thru LRN FLR 95	Floor positions identified during a Hoistway Learn cycle.	0	16777215	Job Specific

Hall Board Parameters

The table below lists the Hall Board Parameters.

Table 16: Hall Board Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0195	Enable Ext. Hall Boards	When set to ON, the system is using 12-DIP Hall boards.	0	1	Job Specific
08-0178	Linked Hall Mask 1	Sets which function groups of Hall boards that have their outputs tied together. For example, if set to 7, a hall 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 *HYDRO:EVOLVED User Manual* for more details on how these masks are set.	0	255	Job Specific
08-0179	Linked Hall Mask 2	Same as Linked Hall Mask 1. Used when multiple sets of linked hall buttons are needed.	0	255	Job Specific
08-0180	Linked Hall Mask 3	Same as Linked Hall Mask 1. Used when multiple sets of linked hall buttons are needed.	0	255	Job Specific
08-0181	Linked Hall Mask 4	Same as Linked Hall Mask 1. Used when multiple sets of linked hall buttons are needed.	0	255	Job Specific
08-0208	Hall Security Mask	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 01-0272 is ON, this parameter is car specific instead of shared group wide.	0	255	Job Specific
08-0209	Hall Call Mask	Sets which Hall board function groups the car. This function treats as regular hall calls.	0	255	Job Specific
08-0210	Hall Medical Mask	Sets which Hall board function groups are medical calls.	0	255	Job Specific
08-0211	Hall Rear Door Mask	Sets which Hall board function groups are rear call.	0	255	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0212	Swing Call Mask	Sets which Hall board function groups are swing calls.	0	255	Job Specific

Independent Service Parameters

The table below lists the Independent Service Parameters.

Table 17: Independent Service Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0236	Independent Service Ignore Front CCB	When set to ON, the Front CCB will be ignored while on Independent Service. (Feature Request).	0	1	0
01-0262	Independent Service CCB Closes Door	When set to ON, while on Independent Service, CCBs close doors.	0	1	0
08-0121	Group Car Index	Sets the car's group ID. This value is zero-based.	0	7	Job Specific
08-0125	Run Log Scaling	Sets the resolution of captured run logs. Units are in 50 millisecond counts.	0	255	4
08-0127	Motion Resolution	Sets the resolution of the commanded pattern. Units are in milliseconds.	3	20	10

Landing System Parameters

The table below lists the Landing System Parameters.

Table 18: Landing System Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0038	Enable Landing Insp.	Enables Landing Inspection operation when the MR board DIP 3B is on.	0	1	0
01-0057	Disable CEDES Faults	Disables CEDES offline faults. This option should be left OFF and is for test purposes only.	0	1	0
01-0147	Enable CEDES2	Enables updated CEDES protocol v2.0.	0	1	0
01-0148	Enable ETSL	Enables a secondary CEDES unit (which connects to the COP) and ETSL stop point checks. **NOTE**: Used for Canada jobs.	0	1	0
08-0243	CEDES Alarm Time 100ms	When a CEDES camera reports difficulty reading the tape, an alarm signaling 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 100 millisecond counts.	0	255	10
16-0865	Acceptance Slide Distance	Distance in CEDES count that the car slides during ETSL slide test.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0926	ETSL Camera Offset	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
24-0192	Counterweight Mid-Point	The counterweight position used to determine the recall floor during counterweight derailed operation. Units are in CEDES counts.	0	16777215	0

Miscellaneous Parameters

The table below lists the Miscellaneous Parameters.

Table 19: Miscellaneous Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0030	VIP Priority Dispatching	Places car into VIP/Priority Dispatching. Allows for multiple cars in VIP mode to dispatch as a separate group.	0	1	Job Specific
01-0034	Bypass Term Limits	Bypasses terminal limit faults. This option is automatically turned OFF when in automatic operation.	0	1	0
01-0037	Enable Pit Insp.	Enables Pit Inspection operation when the MR board DIP 4B is on.	0	1	0
01-0043	Enable Midflight Destination Change	Enables changing destination during a run. This option should be left ON and is for test purposes only.	0	1	1
01-0064	Disable Preflight	Disables the end of run preflight check.	0	1	0
01-0072	Enable Construction Run Box	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
01-0075	IC Insp. Req. For CT	Requires In-Car inspection to enable CT inspection.	0	1	0
01-0080	Disable OOS	Disables out of service.	0	1	1
01-0085	NC Input Custom Mode	Configures custom mode of operation used for test	0	1	0
01-0105	Rescue Rec Trv Dir	Enables recommended travel direction check during automatic rescue operation	0	1	0
01-0106	CC Acknowledge	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0107	DEBUG Monitor Car Direction	Display car's direction priority on the controller's home screen.	0	1	0
01-0116	Disable Idle Travel Arrows	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
01-0125	Debug Fast Group Resend	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
01-0129	Enable Op Mode Alarm	Enables a system alarm signaling when the mode of operation changes (A146).	0	1	0
01-0130	Enable Stop At Next Alarm	Enables a system alarm signaling 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
01-0133	Enable Latches CC	When set to ON, car call enable latches a car call.	0	1	0
01-0136	Debounce Latched Fault	When set to ON, the latching of safety faults are debounced for 6 seconds instead of the standard 2.5 seconds.	0	1	0
01-0142	Buzzer Only On Nudge	When set to ON, during nudging the NDG output is suppressed and only the buzzer sounds.	0	1	0
01-0145	Default FRAM	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0150	Enable EStop Alarms	Enables a system alarm signaling when the Estop is commanded without a corresponding fault (A69 to A76).	0	1	0
01-0161	Double Chime On Down	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
01-0169	FRAM Enable Alarms	When set to ON, a FRAM corruption check on read fails an alarm displays.	0	1	0
01-0172	In Motion Opening Alarm	When set to ON, if the Car Top output 614 (DO) is on during a run, an alarm is asserted (A631). This is used for debugging.	0	1	0
01-0198	CW Derail NO	When set to ON, CW Derail inputs are normally open.	0	1	0
01-0199	Enable Board RTC	When set to ON, the onboard RTC is used instead of the DAD unit RTC.	0	1	0
01-0206	Disable DL20 Buzzer	When set to ON, DL20 fixture buzzer feature is suppressed.	0	1	Job Specific
01-0207	Door Retiring CAM	When set to ON, the CAM output controls hall interlocks. Otherwise, interlocks are controlled by the door operator.	0	1	Job Specific
01-0224	Enable Shield Alarms	When set to ON, shield errors are flagged as system alarms.	0	1	0
01-0226	Enable CE V2	When set to ON, messages to the CE fixture driver board includes dedicated out-of-service and Fire Phase 2 messages.	0	1	0
01-0230	Disable CPLD Overflow Alarm	When set to ON, disables the CPLD overflow alarm.	0	1	0
01-0233	Enable VIP Timed Out Alarm	When set to ON, if VIP has timed out, an alarm is asserted.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0239	EQ Old Job Support	When set to ON, the EQ lamp does not follow code 8.4.10.1(f) in order to support older jobs.	0	1	0
01-0248	Flash Fire Hat Low Oil	When set to ON, if on Low Oil operation, the car will flash fire hat.	0	1	0
01-0250	CAM Output On Move	When set to OFF, the CAM will output when the car is in motion and not pre-opening. When set to ON, the CAM will output when the car is outside the door zone or in motion.	0	1	0
01-0251	Motor Overheat Latch	When set to ON, the Motor Overheat fault is a latching fault.	0	1	0
01-0259	Latch CPLD Faults	When set to ON, CPLD preflight failure and redundancy failure faults remain latched until power is cycled to the car.	0	1	1
01-0280	Enable TEI CC	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
01-0284	Bypass Term HA Inspection	When set to ON, while on HA Inspection, the car will be able to bypass term limits. This is used in California for the run-by test.	0	1	0
01-0286	Arrival Lantern on DOL	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0024	P1 Leveling Distance 5mm	Adds leveling distance to the learned slowdown trip points in the up direction, extending the time the car will run at leveling speed before reaching a floor. Units are in 0.2 inch counts.	0	122	5
08-0038	P3 Leveling Distance 5mm	Adds leveling distance to the learned slowdown trip points in the down direction, extending the time the car will run at leveling speed before reaching a floor. Units are in 0.2 inch counts. **Note**, this profile takes effect when the car is running on generator or battery power.	0	122	5
08-0048	Time Violation Rate	Sets the tolerance for module run time. Units are in 1% of run period.	0	255	0
08-0049	Acceptance ETSL Point	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
08-0051	VIP Car Call Timer (1s)	Sets the time in seconds allowed to place a car call after entering VIP mode with the doors fully open.	5	255	5
08-0052	Viscosity Cycles Allowed	This counter limits the number of times the controller cycles through the viscosity run and viscosity rest stages before shutting down. This is to address the potential for a bad sensor or input. This setting is limited to 5 cycles.	0	5	5
08-0053	Viscosity Runtime 1 min	An extended version of the motor limit timer that is used when the car is on cold oil (Viscosity) operation. This timer limits the amount of time the pump motor can be on straight.	0	15	15

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0054	Viscosity RestTime 1 min	This timer controls how long the motor sits at rest after the Viscosity_RunTime_1min has expired. This is set to a minimum of 5 minutes to prevent overheating the oil.			
08-0055	JackResync Frequency1hr	Specifies how frequently to perform a jack resync. This option overrides JackResync StartTime 15min.	0	255	0
08-0057	Jacksync Duration 1s	Specifies how long the car shall remain in the pit during jack resync. Units are in 1 second counts	0	255	0
08-0061	Pump Off Delay 50ms	If the car is moving up, this is the delay between deactivating the valves and turning off the start pump motor outputs. This parameter does not apply if the car is not moving up. Units are in 50 millisecond counts.	0	255	5
08-0062	SAFE Drop Delay 50ms	If the car is moving up, this is the delay between deactivating the pump motor and turning off the MR board SAFE output. If the car is moving down, this is the delay between deactivating the valves and turning off the SAFE output. Units are in 50 millisecond counts.	0	255	20
08-0093	Car Stability Delay (50ms)	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 millisecond counts.	0	255	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0115	Fan And Light Timer	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 (08-0184) should be used instead. Units are in seconds.	0	255	0
08-0116	Inspection OVSP Debounce Limit	Sets the time the car must be in an inspection overspeed state before a fault (F66) is flagged. The units are in 10 millisecond counts.	0	100	10
08-0117	Door Open OVSP Debounce Limit	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 millisecond counts.	0	100	10
08-0118	ETS OVSP Debounce Limit	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 millisecond counts.	0	100	10
08-0119	SFP Debounce Limit	Sets the time that the SFP relay must be seen low before a fault (F52) is flagged. The units are in 10 millisecond counts.	10	255	10
08-0120	Rate To Send Parameters	Sets the rate parameter update packets is sent on the group network. The units are in 5 millisecond counts.	0	255	20
08-0124	Offline Ctrl Timer	Sets the minimum rate at which packets are sent from each of the main system processors.	100	255	100

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0131	Max Runtime (1s)	Monitors the Start Motor (SM) output and will issue a MLT fault when the timer expires, the car should return to the bottom landing and go OOS with doors open. This is bypassed during construction and inspection operations. A different timer is used during viscosity operation. If the timer expires when low pressure is active, the car faults and goes out of service until the low pressure fault is cleared.	0	255	180
08-0134	VIP HC Transition Delay 50ms	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. Units are in 50 millisecond counts.	0	255	20
08-0137	Timeout Lock and CAM (100ms)	Sets the timeout which accounts for the delay between CAM activation and locks being made for manual doors. The units are in 100 millisecond counts. If set to zero, value defaults to 4 seconds.	0	255	40
08-0138	Access Code CCB Time (1s)	Sets the time the user has to enter each CCB for access code. This timer resets every time the user enters a CCB for access code.	0	255	5
08-0142	Num Resend Run Log	Sets the number of times to resend each run log packet.	0	255	10
08-0147	Short Profile Minimum Distance	Sets the distance below which the Short Motion profile is used instead of the Normal Motion profile. Units are in feet.	0	255	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0151	Time Violation Module	Sets which module to check against the 16-0924 time violation setting. If set to zero, all modules are checked.	0	255	0
08-0152	Med Valve Speed (fpm)	Sets the estimated maximum medium valve speed.	0	255	0
08-0153	Low Valve Speed (fpm)	Sets the estimated maximum low valve speed.	0	255	0
08-0160	Hourly Fault Limit	Sets the number of 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
08-0173	CPLD Offline Timeout 10ms	Sets the timeout used when the CPLD offline alarms are enabled (01-0135). Units are in 10 millisecond counts.	5	255	50
08-0184	MR Fan Timer (min)	Sets the time the car may be idle before its machine room fan output is turned off. Units are in minutes.	0	255	0
08-0190	CCB Recent Press Timer (100ms)	Sets the time the lamp output is lit after a car call button is pressed.	0	255	2
08-0196	Max Starts Per Minute	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0241	Valve Type	Enables the system as a hydro controller. It also selects which valve type is used. Types: • 0 = Traction • 1 = C4 Valve • 2 = Blain Valve • 3 = Bucher Valve Must be set at startup.	0	255	Job Specific
08-0245	Group Number	Sets the group number. This value is zero-based.	0	7	Job Specific
08-0248	Accel Delay Relevel 10ms	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	10
08-0252	HA Access Slide Distance 1in	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 traveling towards the respective terminal.	0	255	6
08-0253	Drop Cam Outside DZ Idle Timer 1 min	When set to non-zero, if the car is outside of the DZ, idle, and in auto operation, the car asserts the CAM until this timer expires.	0	255	0
08-0259	Jack Resync Time	Specifies what time of day to perform jack resync.	0	65535	0
16-0876	Lock Clip Time (10 ms)	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 500 milliseconds.	0	50	0
16-0924	Module Time Violation (ms)	Any module that runs longer than this set value triggers an alarm.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-1041	Battery Board Test Time Start	Sets the start time for checking the battery lowering device daily for proper charge. When set to 00:00 or 0, the feature is disabled.	0	65535	0

MR Board Parameters

The table below lists the MR Board Parameters.

Table 20: MR Board Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0124	Increase MRB Send Rate	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
01-0126	Enable Preflight Test DIP	When set to ON, turning on MR board DIP 7B triggers a prefight check.	0	1	0
01-0137	Enable Old FRAM	When set to ON, the MR board is configured to work with old FRAM hardware.	0	1	0
16-0000 thru 16-0007	MR IN (1-8)	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
16-0392 thru 16-0399	MR OUT (1-8)	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

NTS Parameters

The table below lists the NTS Parameters.

Table 21: NTS Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0063	Disable NTS Update	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
01-0067	Invert NTS Stop	Changes machine room NTS output from active high to active low.	0	1	Job Specific
01-0153	Disable Non-Terminal NTS	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	0
01-0260	Disable NTS Alarm	When set to ON, NTS trip alarms are suppressed.	0	1	0
08-0139	NTS Debounce	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 millisecond counts.	0	255	10
16-0784	NTS VEL P1-0	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
16-0785	NTS VEL P1-1	The velocity threshold of the NTS trip P1-1 for the normal motion profile. This value is read only.	0	65535	0
16-0786	NTS VEL P1-2	The velocity threshold of the NTS trip P1-2 for the normal motion profile. This value is read only.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0787	NTS VEL P1-3	The velocity threshold of the NTS trip P1-3 for the normal motion profile. This value is read only.	0	65535	0
16-0788	NTS VEL P1-4	The velocity threshold of the NTS trip P1-4 for the normal motion profile. This value is read only.	0	65535	0
16-0789	NTS VEL P1-5	The velocity threshold of the NTS trip P1-5 for the normal motion profile. This value is read only.	0	65535	0
16-0790	NTS VEL P1-6	The velocity threshold of the NTS trip P1-6 for the normal motion profile. This value is read only.	0	65535	0
16-0791	NTS VEL P1-7	The velocity threshold of the NTS trip P1-7 for the normal motion profile. This value is read only.	0	65535	0
16-0792	NTS VEL P2-0	The velocity threshold of the NTS trip point P2-0 for the inspection motion profile. This value is read only.	0	65535	0
16-0793	NTS VEL P2-1	The velocity threshold of the NTS trip point P2-1 for the inspection motion profile. This value is read only.	0	65535	0
16-0794	NTS VEL P2-2	The velocity threshold of the NTS trip point P2-2 for the inspection motion profile. This value is read only.	0	65535	0
16-0795	NTS VEL P2-3	The velocity threshold of the NTS trip point P2-3 for the inspection motion profile. This value is read only.	0	65535	0
16-0796	NTS VEL P2-4	The velocity threshold of the NTS trip point P2-4 for the inspection motion profile. This value is read only.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0797	NTS VEL P2-5	The velocity threshold of the NTS trip point P2-5 for the inspection motion profile. This value is read only.	0	65535	0
16-0798	NTS VEL P2-6	The velocity threshold of the NTS trip point P2-6 for the inspection motion profile. This value is read only.	0	65535	0
16-0799	NTS VEL P2-7	The velocity threshold of the NTS trip point P2-7 for the inspection motion profile. This value is read only.	0	65535	0
16-0800	NTS VEL P3-0	The velocity threshold of the NTS trip point P3-0 for the emergency power motion profile. This value is read only.	0	65535	0
16-0801	NTS VEL P3-1	The velocity threshold of the NTS trip point P3-1 for the emergency power motion profile. This value is read only.	0	65535	0
16-0802	NTS VEL P3-2	The velocity threshold of the NTS trip point P3-2 for the emergency power motion profile. This value is read only.	0	65535	0
16-0803	NTS VEL P3-3	The velocity threshold of the NTS trip point P3-3 for the emergency power motion profile. This value is read only.	0	65535	0
16-0804	NTS VEL P3-4	The velocity threshold of the NTS trip point P3-4 for the emergency power motion profile. This value is read only.	0	65535	0
16-0805	NTS VEL P3-5	The velocity threshold of the NTS trip point P3-5 for the emergency power motion profile. This value is read only.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0806	NTS VEL P3-6	The velocity threshold of the NTS trip point P3-6 for the emergency power motion profile. This value is read only.	0	65535	0
16-0807	NTS VEL P3-7	The velocity threshold of the NTS trip point P3-7 for the emergency power motion profile. This value is read only.	0	65535	0
16-0808	NTS VEL P4-0	The velocity threshold of the NTS trip point P4-0 for the short motion profile. This value is read only.	0	65535	0
16-0809	NTS VEL P4-1	The velocity threshold of the NTS trip point P4-1 for the short motion profile. This value is read only.	0	65535	0
16-0810	NTS VEL P4-2	The velocity threshold of the NTS trip point P4-2 for the short motion profile. This value is read only.	0	65535	0
16-0811	NTS VEL P4-3	The velocity threshold of the NTS trip point P4-3 for the short motion profile. This value is read only.	0	65535	0
16-0812	NTS VEL P4-4	The velocity threshold of the NTS trip point P4-4 for the short motion profile. This value is read only.	0	65535	0
16-0813	NTS VEL P4-5	The velocity threshold of the NTS trip point P4-5 for the short motion profile. This value is read only.	0	65535	0
16-0814	NTS VEL P4-6	The velocity threshold of the NTS trip point P4-6 for the short motion profile. This value is read only.	0	65535	0
16-0815	NTS VEL P4-7	The velocity threshold of the NTS trip point P4-7 for the short motion profile. This value is read only.	0	65535	0
16-0816	NTS POS P1-0	N/A	0	65535	0
16-0817	NTS POS P1-1	N/A	0	65535	0
16-0818	NTS POS P1-2	N/A	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0819	NTS POS P1-3	N/A	0	65535	0
16-0820	NTS POS P1-4	N/A	0	65535	0
16-0821	NTS POS P1-5	N/A	0	65535	0
16-0822	NTS POS P1-6	N/A	0	65535	0
16-0823	NTS POS P1-7	N/A	0	65535	0
16-0824	NTS POS P2-0	N/A	0	65535	0
16-0825	NTS POS P2-1	N/A	0	65535	0
16-0826	NTS POS P2-2	N/A	0	65535	0
16-0827	NTS POS P2-3	N/A	0	65535	0
16-0828	NTS POS P2-4	N/A	0	65535	0
16-0829	NTS POS P2-5	N/A	0	65535	0
16-0830	NTS POS P2-6	N/A	0	65535	0
16-0831	NTS POS P2-7	N/A	0	65535	0
16-0832	NTS POS P3-0	N/A	0	65535	0
16-0833	NTS POS P3-1	N/A	0	65535	0
16-0834	NTS POS P3-2	N/A	0	65535	0
16-0835	NTS POS P3-3	N/A	0	65535	0
16-0836	NTS POS P3-4	N/A	0	65535	0
16-0837	NTS POS P3-5	N/A	0	65535	0
16-0838	NTS POS P3-6	N/A	0	65535	0
16-0839	NTS POS P3-7	N/A	0	65535	0
16-0840	NTS POS P4-0	N/A	0	65535	0
16-0841	NTS POS P4-1	N/A	0	65535	0
16-0842	NTS POS P4-2	N/A	0	65535	0
16-0843	NTS POS P4-3	N/A	0	65535	0
16-0844	NTS POS P4-4	N/A	0	65535	0
16-0845	NTS POS P4-5	N/A	0	65535	0
16-0846	NTS POS P4-6	N/A	0	65535	0
16-0847	NTS POS P4-7	N/A	0	65535	0

OOS Parameters

The table below lists the OOS Parameters.

Table 22: OOS Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0254	OOS Code Number of Trips	Number of trips before asserting OOS code.	0	255	0
16-1042	OOS Code	OOS Code after number of trips are exceeded.	0	9999	0

Parking Parameters

The table below lists the Parking Parameters.

Table 23: Parking Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0089	Custom Mode Parking Enabled	Configures custom mode to enable parking during test.	0	1	0
01-0146	Enable Dynamic Parking	When set to ON, the parking floor is determined dynamically based on hall call history.	0	1	0
01-0213	Dynamic Parking DO 1	Sets the parking with door open option for the priority 1 dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car parks with the doors closed.	0	1	0
01-0214	Dynamic Parking DO 2	Sets the parking with door open option for the priority 2 dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car parks with the doors closed.	0	1	0
01-0215	Dynamic Parking DO 3	Sets the parking with door open option for the priority 3 dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car parks with the doors closed.	0	1	0
01-0216	Dynamic Parking DO 4	Sets the parking with door open option for the priority 4 dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car parks with the doors closed.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0217	Dynamic Parking DO 5	Sets the parking with door open option for the priority 5 dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car parks with the doors closed.	0	1	0
01-0218	Dynamic Parking DO 6	Sets the parking with door open option for the priority 6 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
01-0219	Dynamic Parking DO 7	Sets the parking with door open option for the priority 7 dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car parks with the doors closed.	0	1	0
01-0220	Dynamic Parking DO 8	Sets the parking with door open option for the priority 8 dynamic parking landing, where priority 1 is the highest priority. If set to 0, the car parks with the doors closed.	0	1	0
01-0263	Enable Peak Dispatch	When set to ON, enables the Remote Peak Parking dispatching inputs (Up/Down/Lobby peak).	0	1	0
01-0288	Park and Cycle Doors	When set to ON and the car parks, the doors will cycle once (fully open, then fully close). This is used for Wall Street Folks who do not pay attention to the elevator and end up panicking when the car already serviced the floor they requested, and the car has parked with the doors closed.	0	1	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0293	Enable Cycle Doors When Park	When parameter is set, and the door state is closed while parking, the door will open before closing.	0	1	0
08-0113	Parking FLR	Sets the parking floor that is used if the parking timer (08-0114) is nonzero and dynamic parking is off (01-0146). This value is zero-based, so the bottom most floor is zero.	0	255	0
08-0114	Parking Timer	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
08-0215	Dynamic Parking Landing 1 Plus 1	Sets the priority 1 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0
08-0216	Dynamic Parking Landing 2 Plus 1	Sets the priority 2 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0
08-0217	Dynamic Parking Landing 3 Plus 1	Sets the priority 3 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0
08-0218	Dynamic Parking Landing 4 Plus 1	Sets the priority 4 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0
08-0219	Dynamic Parking Landing 5 Plus 1	Sets the priority 5 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0
08-0220	Dynamic Parking Landing 6 Plus 1	Sets the priority 6 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0221	Dynamic Parking Landing 7 Plus 1	Sets the priority 7 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0
08-0222	Dynamic Parking Landing 8 Plus 1	Sets the priority 8 dynamic parking landing, where priority 1 is the highest priority. If set to 0, this option is disabled.	0	255	0

Pick Delay Parameters

The table below lists the Pick Delay Parameters.

Table 24: Pick Delay Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0058	Safe Pick Delay 50ms	If the car is moving up, this is the delay between activating the MR board SAFE output and activating the primary start motor output. If the car is moving down, this is the delay between activating the SAFE output and activating a valve. Units are in 50 millisecond counts.	0	255	5
08-0059	SM1 Pick Delay 50ms	If the car is moving up, this is the delay between activating the primary start motor output and activating a valve. This parameter only applies if the car is moving up. Units are in 50 millisecond counts.	0	255	10
08-0060	SM2 Pick Delay 50ms	If Secondary Soft Starter (01-0261) is ON, this is the delay between activating the secondary start motor output and activating the primary start motor output. This parameter does not apply if the car is not moving up or if Secondary Soft Starter is OFF. Units are in 50 millisecond counts.	0	255	0
08-0063	Delta Pick Delay (50ms)	If the car is moving up, this is the delay between activating the Delta output and activating the valve outputs. This parameter does not apply if the car is not moving up or when set to 0. This should only be set nonzero for a Wye Delta starter configuration. Units are in 50 millisecond counts.	0	255	Job Specific

Riser Board Parameters

The table below lists the Riser Board Parameters.

Table 25: Riser Board Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0060	Enable Riser Alarms	Enables system alarms used to signal Riser board errors.	0	1	0
16-0040 thru 16-0047	RIS1 IN (1-8)	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
16-0048 thru 16-0055	RIS2 IN (1-8)	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 also be inverted via SETUP | SETUP I/O | INVERT INPUTS.	0	65535	0
16-0056 thru 16-0063	RIS3 IN (1-8)	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
16-0064 thru 16-0071	RIS4 IN (1-8)	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
16-0432 thru 16-0439	RIS1 OUT (1-8)	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0440 thru 16-0447	RIS2 OUT (1-8)	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
16-0448 thru 16-0455	RIS3 OUT (1-8)	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
16-0456 thru 16-0463	RIS4 OUT (1-8)	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

Sabbath Parameters

The table below lists the Sabbath Parameters.

Table 26: Sabbath Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0139	Sabbath Key Only Enable	When set to ON, Sabbath operations are only activated by Keyswitch input.	0	1	0
01-0140	Sabbath Key Or Timer Enable	When set to ON, Sabbath operation is activated by either Keyswitch input or configured Sabbath Start Time (24-0193) and Sabbath End Time (24-0194).	0	1	0
01-0141	Sabbath Timer Only Enable	When set to ON, Sabbath operation is activated only by the configured Sabbath Start Time (24-0193) and Sabbath End Time (24-0194).	0	1	0
01-0197	Disable Sabbath Releveling	When set to ON, releveling is disabled when on Sabbath operation.	0	1	0
01-0223	Sabbath Disable LWD	When set to ON, the Sabbath mode neutralizes the LWD. **NOTE**: This parameter is only supported if the Hydro:Evolved controller is configured with the LWD.	0	1	0
01-0234	Sabbath Enable Ext Buzzer	When set to ON, the Sabbath closing buzzer on time, if enabled via the SabbathClosingBuzzer 100 ms (08-0015), is extended from when the doors start to close to when the doors are fully closed.	0	1	0
01-0242	Sabbath Nudge Doors	When set to ON, doors nudge instead of close during Sabbath.	0	1	1

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0015	Sabbath Closing Buzzer 100ms	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
24-0193	Sabbath Start Time	Sets the Friday start time for Sabbath when timer enable is set. Format is HHMM, for example, 12:34 PM is 1234.	0	16777215	0
24-0194	Sabbath End Time	Sets the Saturday end time for Sabbath when timer enable is set. Format is HHMM, for example, 12:34 PM is 1234.	0	16777215	0
32-0023	Sabbath Up Destinations 0	Sets which floors to stop at during Sabbath Up Destinations 0 operation.	0	4294967295	Job Specific
32-0024	Sabbath Up Destinations 1	Sets which floors to stop at during Sabbath Up Destinations 1 operation.	0	4294967295	Job Specific
32-0025	Sabbath Up Destinations 2	Sets which floors to stop at during Sabbath Up Destinations 2 operation.	0	4294967295	Job Specific
32-0026	Sabbath Down Destinations 0	Sets which floors to stop at during Sabbath Down Destinations 0 operation.	0	4294967295	Job Specific
32-0027	Sabbath Down Destinations 1	Sets which floors to stop at during Sabbath Down Destinations 1 operation.	0	4294967295	Job Specific
32-0028	Sabbath Down Destinations 2	Sets which floors to stop at during Sabbath Down Destinations 2 operation.	0	4294967295	Job Specific
32-0036	Sabbath Front Opening 0	Floors 1 to 32 front openings when in Sabbath operation.	0	4294967295	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
32-0039	Sabbath Rear Opening 0	Floors 1 to 32 rear openings when in Sabbath operation.	0	4294967295	Job Specific

Security Parameters

The table below lists the Security Parameters.

Table 27: Security Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0021	Enable CC Secured Alarms	When set to ON, if a pressed CCB is secured, the CCB secured alarm is asserted.	0	1	Job Specific
01-0065	Independent Service Bypass Security	Ignores car call security when on independent service.	0	1	0
01-0086	Custom Mode Ignore Car Call Security	Configures custom mode to ignore all security car calls during test.	0	1	0
01-0087	Custom Mode Ignore Hall Call Security	Configures custom mode to ignore all security hall calls during test.	0	1	0
01-0138	Enable Hall Security	Enables hall call security.	0	1	0
01-0192	Enable Check In Floor	Enables check in security.	0	1	0
01-0196	Access Code Follows Time Security	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

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0257	Enable Remote Security	When set to ON, remote monitoring systems can enable car call and hall call security at different openings.	0	1	0
01-0272	Enable Hall Call Security by Car	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	Job Specific
16-0928	Front Check In Security 0	Front door check in security for floors 1 to 16.	0	65535	0
16-0934	Rear Check In Security 0	Rear door check in security for floors 1 to 16.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0940	Hall Secure Map F 0	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 Enable Hall Call Security By Car (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	Job Specific
16-0999	Weekday Start Time for Timed CC Security	Sets the weekday start time for timed car call security.	0	65535	0
16-1000	Weekday End Time for Timed CC Security	Sets the weekday end time for timed car call security.	0	65535	0
16-1001	Weekend Start Time for Timed CC Security	Sets the weekend start time for timed car call security.	0	65535	0
16-1002	Weekend End Time for Timed CC Security	Sets the weekend end time for timed car call security.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-1035	Hall Secure Map R 0	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 Enable Hall Call Security By Car (01-0272) is ON, this parameter is car specific instead of shared group wide.	0	65535	Job Specific
24-0195	Job ID	N/A	0	16777215	Job Specific
24-0196	Payment Passcode	N/A	0	16777215	0
32-0008	Front Security Map 0	Front door car call security map for floors 1 to 32. Edit via SETUP | FLOORS | SECURITY (F).	0	4294967295	Job Specific
32-0012	Rear Security Map 0	Rear door car call security map for floors 1 to 32. Edit via SETUP | FLOORS | SECURITY (R).	0	4294967295	Job Specific
32-0016	Secure Timed Bitmap F 0	Front door timed car call security map for floors 1-32. Edit via SETUP | FLOORS | Timed CC Security | Enable Floor (F).	0	4294967295	Job Specific
32-0020	Secure Timed Bitmap R 0	Rear door timed car call security map for floors 1-32. Edit via SETUP | FLOORS | Timed CC Security | Enable Floor (R).	0	4294967295	Job Specific

Soft Starter Parameters

The table below lists the Soft Starter Parameters.

Table 28: Soft Starter Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0261	Secondary Soft Starter	When set to ON, the system searches for a secondary soft starter signals.	0	1	Job Specific
01-0266	Run with one SS	When set to ON, if two soft starters are supported, and only one of those soft starters is faulted, the car will still be allowed to run. In this situation, soft starter faults will instead be asserted as alarms. This option is only available if Secondary Soft Starter (01-0261) is ON.	0	1	0
01-0269	SS Flt Triggers Rst	When set to ON, if the soft starter fault input is activated, the controller will asserts the soft starter reset output to power cycle the soft starter. This reset will be attempted multiple times before stopping.	0	1	Job Specific
08-0226	SS Ramp Up Time 100ms	Used for the C4 serial soft starter. Sets the time to ramp up to V-Max.	0	250	Job Specific
08-0227	SS Vmax VAC %	Used for the C4 serial soft starter. Sets the percentage of input AC voltage used for ramp up.	10	90	Job Specific
08-0228	SS OVC (A)	Used for the C4 serial soft starter. Sets the overcurrent limit in amps.	1	140	Job Specific
08-0235	SS2 Ramp Up Time 100ms	Used for the C4 serial secondary soft starter. Sets the time to ramp up to Vmax.	0	20	Job Specific
08-0236	SS2 Vmax VAC %	Used for the C4 serial secondary soft starter. Sets the percentage of input AC voltage used for ramp up.	10	90	Job Specific
08-0237	SS2 OVC (A)	Used for the C4 serial secondary soft starter. Sets the overcurrent limit in amps.	1	140	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0849	SS OVT (F)	Used for the C4 serial soft starter. Sets the over temperature limit in degrees Fahrenheit counts.	176	302	Job Specific
16-0850	SS2 OVT (F)	Used for the C4 serial secondary soft starter. Sets the over temperature limit in degrees Fahrenheit counts.	176	302	Job Specific

Speed Parameters

The table below lists the Speed Parameters.

Table 29: Speed Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
01-0073	Disable Construction OVSP	Disables the construction overspeed fault (F255).	0	1	1
01-0253	Learn Slowdowns	When set to ON, putting the car on learn by turning ON MR DIP 5A will prepare the car for a slowdown learn, instead of the usual hoistway learn. Holding down the MR UP or MR DOWN button until contract speed is reached will cause the car to capture its slowdown points. This process needs to be performed in both the up and down directions.	0	1	0
01-0283	Bypass Term Ignores Term Spd	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 speed will be ignored and the controller continues to command the inspection speed.	0	1	1
08-0047	NTSD Speed	Sets the target speed used during an NTS trip. Units are in feet per minute.	1	20	10
08-0136	General OVSP Debounce Limit	Sets the time the car must be in a general overspeed state before a fault (F64) is flagged. The units are in 10 millisecond counts.	0	255	10
08-0143	Auto Rescue Spd (fpm)	Sets the max speed to use during auto rescue operation.	0	255	Job Specific
08-0159	Construction OVSP Debounce	Sets the time the car must be in a construction overspeed state before a fault (F255) is flagged. The units are in 10 millisecond counts.	0	100	10

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
08-0182	ETSL OVSP Debounce Limit	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 millisecond counts.	0	255	10
08-0207	Access Speed (fpm)	Sets the speed used when in access mode. The controller faults if this is higher than 150 fpm.	0	150	20
08-0225	EQ Hoistway Scan Speed	Sets the speed used during EQ Hoistway Scan.	10	150	75
16-0864	Acceptance Buffer SPD	Sets the car speed for buffer acceptance testing.	0	65535	Job Specific
16-0872	Contract SPD	Sets the estimated max speed of the car when running with the high-speed valve. Requires system power cycle after changing to clear the “Need To Cycle Pwr” fault (F83/F717/F718).	10	1600	Job Specific
16-0873	Inspection SPD	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
16-0874	Learn SPD	Sets the speed used when in learn mode. Controller faults if this is higher than contract speed.	0	1600	25
16-0878	EPower SPD fpm	Sets the speed the car uses while in emergency power mode. Set to 10 fpm at minimum.	0	65535	10
16-0908	Leveling SPD	This sets the estimated max speed the car will run at when the car is running with the leveling or releveling.	1	20	5
16-0964	Medium Valve Max Run Dist (in)	Sets the max run distance where medium valve speed run is selected. Longer run will use the next higher speed valve. When set to zero, the valve is disabled. Units are in inches.	0	65535	0

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default Value
16-0965	Low Valve Max Run Dist (in)	Sets the max run distance where low valve speed run is selected. Longer run will use the next higher speed valve. When set to zero, the valve is disabled. Units are in inches.	0	65535	0
16-0966	Level Valve Max Run Dist (in)	Sets the max run distance where level valve speed run is selected. Longer run will use the next higher speed valve. When set to zero, the valve is disabled. Units are in inches.	0	65535	0
16-0967 thru 16-0972	Speed(1-6) THOLD fpm	Sets the speed threshold above which the Speed(1-6) SlowdownDist 05mm is used. The positioning system speed feedback is used for this comparison. Units are in feet per minute. Speed1_THOLD_fpm should be the highest speed, with Speed2_THOLD_fpm through Speed6_THOLD_fpm should be decreasing in value. Recommended defaults = (ContractSpeed / 7) * (7 - #). Where # is the value found in, Speed#_THOLD_fpm. Setting the value to zero will disable this feature.	0	65535	Job Specific
16-1003 thru 16-1009	Speed (1-7) SlowdownDist UP_ 05mm	Sets the distance from its destination where the car must cut its high-speed valves when moving at a speed above the Speed (1-7)_THOLD_fpm. This distance applies when the car is moving in the up direction. Units are in 0.5 mm counts.	0	65535	0
16-1019 thru 16-1025	Speed (1-7) SlowdownDist DN_ 05mm	Sets the distance from its destination where the car must cut its high-speed valves when moving at a speed above the Speed (1-7)_THOLD_fpm. This distance applies when the car is moving in the down direction. Units are in 0.5 mm counts.	0	65535	0

Swing Mode Parameters

The table below lists the Swing Mode Parameters.

Table 30: Swing Mode Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default
01-0082	Swing Calls Enable	Allows swing calls to activate swing operation.	0	1	0
01-0083	Swing Stay In Group	When set to ON, the car stays in group during swing operation.	0	1	0
01-0291	Answer Swing Calls On Normal	Answer swing calls when the car is on Normal.	0	1	0
08-0161	Swing Idle Time 1s	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
16-0946	Swing Door Opening F 0	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Front (08-0012) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0947	Swing Door Opening F 1	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Front (08-0012) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0948	Swing Door Opening F 2	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Front (08-0012) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default
16-0949	Swing Door Opening F 3	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Front (08-0012) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0950	Swing Door Opening F 4	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Front (08-0012) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0951	Swing Door Opening F 5	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Front (08-0012) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0952	Swing Door Opening R 0	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Rear (08-0013) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0953	Swing Door Opening R 1	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Rear (08-0013) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default
16-0954	Swing Door Opening R 2	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Rear (08-0013) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0955	Swing Door Opening R 3	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Rear (08-0013) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0956	Swing Door Opening R 4	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Rear (08-0013) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific
16-0957	Swing Door Opening R 5	Set which front openings are manual swing hall doors when each bit is set ON, and when Door Type Select Rear (08-0013) is set to SWING (3). When a bit is OFF, the hall doors do not act as swing doors.	0	65535	Job Specific

Valve Board Parameters

The table below lists the Valve Board Parameters.

Table 31: Valve Board Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default
01-0044	Disable Brake Faults	This option disables the serial Valve board and serial soft starter faults. This option should be left OFF and is for test purposes only.	0	1	0
01-0254	Secondary Valve Board	When set to ON at startup, the car checks for a secondary Valve board which will support medium speed valves.	0	1	Job Specific

XREG Parameters

The table below lists the XREG Parameters.

Table 32: XREG Parameters

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default
01-0167	XREG Enable In Motion Assignment	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
01-0168	XREG Priority From Arrival Dir	When set to ON, XREG car's direction priority are read from their last arrival lantern signal. If set to OFF, direction priority is up for even car numbers and down for odd car numbers.	0	1	0
08-0167	Attendant Dispatch Timeout (1s)	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 (08-0175) or dispatch offline (08-0176) are set to zero, this feature is disabled. Units are in 1 second counts.	10	255	60

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default
08-0175	Dispatch Timeout 1s	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 (08-0175) or dispatch offline (08-0176) are set to zero, this feature is disabled. Units are in 1 second counts.	10	255	30
08-0176	Dispatch Offline 1s	Sets the time the car removes itself from the group after failing to take an assigned call. If either the dispatch timeout (08-0175) or dispatch offline (08-0176) are set to zero, this feature is disabled. Units are in 1 second counts.	0	255	10
08-0177	Num XReg Cars	When set to zero, disables XREG (cross registration or alien) car dispatching. When set to nonzero, enables XREG dispatching.	0	8	0
08-0192	XREG Dest. Timeout (10s)	When nonzero, if an assigned XREG destination has not been cleared for the XREG Dest. Timeout (10s), the car is removed from group for the time set by XREG Dest. Offline (10s).	0	255	15
08-0193	XREG Dest. Offline (10s)	When nonzero, if an assigned XREG destination has not been cleared for the XREG Dest. Timeout (10s), the car is removed from group for the time set by XREG Dest. Offline (10s).	0	255	3

Parameter Number	Parameter Name	Description	Min Value	Max Value	Default
08-0234	XREG Recall Delay	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 lists the Conversion Chart.

Table 33: Conversion Chart

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

DEC	HEX	BIN
73	49	01001001
74	4A	01001010
75	4B	01001011
76	4C	01001100
77	4D	01001101
78	4E	01001110
79	4F	01001111
80	50	01010000
81	51	01010001
82	52	01010010
83	53	01010011
84	54	01010100
85	55	01010101
86	56	01010110
87	57	01010111
88	58	01011000
89	59	01011001
90	5A	01011010
91	5B	01011011
92	5C	01011100
93	5D	01011101
94	5E	01011110
95	5F	01011111
96	60	01100000
97	61	01100001
98	62	01100010
99	63	01100011
100	64	01100100
101	65	01100101
102	66	01100110
103	67	01100111
104	68	01101000
105	69	01101001
106	6A	01101010
107	6B	01101011
108	6C	01101100
109	6D	01101101
110	6E	01101110
111	6F	01101111
112	70	01110000
113	71	01110001

DEC	HEX	BIN
114	72	01110010
115	73	01110011
116	74	01110100
117	75	01110101
118	76	01110110
119	77	01110111
120	78	01111000
121	79	01111001
122	7A	01111010
123	7B	01111011
124	7C	01111100
125	7D	01111101
126	7E	01111110
127	7F	01111111
128	80	10000000
129	81	10000001
130	82	10000010
131	83	10000011
132	84	10000100
133	85	10000101
134	86	10000110
135	87	10000111
136	88	10001000
137	89	10001001
138	8A	10001010
139	8B	10001011
140	8C	10001100
141	8D	10001101
142	8E	10001110
143	8F	10001111
144	90	10010000
145	91	10010001
146	92	10010010
147	93	10010011
148	94	10010100
149	95	10010101
150	96	10010110
151	97	10010111
152	98	10011000
153	99	10011001
154	9A	10011010

DEC	HEX	BIN
155	9B	10011011
156	9C	10011100
157	9D	10011101
158	9E	10011110
159	9F	10011111
160	A0	10100000
161	A1	10100001
162	A2	10100010
163	A3	10100011
164	A4	10100100
165	A5	10100101
166	A6	10100110
167	A7	10100111
168	A8	10101000
169	A9	10101001
170	AA	10101010
171	AB	10101011
172	AC	10101100
173	AD	10101101
174	AE	10101110
175	AF	10101111
176	B0	10110000
177	B1	10110001
178	B2	10110010
179	B3	10110011
180	B4	10110100
181	B5	10110101
182	B6	10110110
183	B7	10110111
184	B8	10111000
185	B9	10111001
186	BA	10111010
187	BB	10111011
188	BC	10111100
189	BD	10111101
190	BE	10111110
191	BF	10111111
192	C0	11000000
193	C1	11000001
194	C2	11000010
195	C3	11000011

DEC	HEX	BIN
196	C4	11000100
197	C5	11000101
198	C6	11000110
199	C7	11000111
200	C8	11001000
201	C9	11001001
202	CA	11001010
203	CB	11001011
204	CC	11001100
205	CD	11001101
206	CE	11001110
207	CF	11001111
208	D0	11010000
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
229	E5	11100101
230	E6	11100110
231	E7	11100111
232	E8	11101000
233	E9	11101001
234	EA	11101010
235	EB	11101011
236	EC	11101100

DEC	HEX	BIN
237	ED	11101101
238	EE	11101110
239	EF	11101111
240	F0	11110000
241	F1	11110001
242	F2	11110010
243	F3	11110011
244	F4	11110100
245	F5	11110101
246	F6	11110110

DEC	HEX	BIN
247	F7	11110111
248	F8	11111000
249	F9	11111001
250	FA	11111010
251	FB	11111011
252	FC	11111100
253	FD	11111101
254	FE	11111110
255	FF	11111111

Page intentionally left blank

