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SECTION 11 - GROUP ADJUSTMENT PARAMETERS

The **FUTURA™** operating system provides a series of adjustment parameters which allow the user to fine tune the operation of the elevator as well as control the operation of some of the devices associated with the elevator. For example, the parameter ACR controls the acceleration rate of the car while the parameter DOD controls door timing.

PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
ALR	0-# cars	1	Number of Cars	Alternate Lobby minimum car Request This is the minimum amount of cars which must be at the Alternate Lobby at any time. <i>Note: This is only effective if system was configured with an (Optional) alternate lobby.</i>
ALY	1 - # Fl.	2	Floor Number	Alternate Lobby floor. This is the floor location of the Alternate Lobby. <i>Note: This is only effective if system was configured with an (Optional) alternate lobby.</i>
AST	0-1600	640	Second	Automatic Service protection Time: This "Group" parameter is similar to the car controller AST parameter. <i>Note: Group AST must always be set higher than the Car AST by a minimum of 15 seconds (n=240).</i>
BDP	0-720	0	1/16 Second	Not used on FUTURA™ HYDRO.
BEx	0-65535			Building Elevator number One through Eight: Sets the building designation number for car number x. Similar to BED for the Car controller. This will change the number the elevator displays on Group Screens such as on the RVU unit. Example: BE1= 21 (if 1 st car in group is Building designated number is 21)
BGC	0-7			BackGround Color for video display
BLK	1-2			1= BLinKs the text on the group screen. 2= Blinks the background of text on the group screen.



PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
CBH	0-120	15	Second	Code Blue door Hold time: The amount of time the doors will remain open at Code Blue designated floor. If after this time the Hospital service switch has not been activated, doors will close and car will return to normal operation.
CBR	0-5	0	Number	Communication Baud Rate: 0=1200, 1=300, 2=600, 3=2400, 4=4800, 5=9600
CBx	0-# cars	CB1 = 1 CB2 = 2 CB3 = 3 CB4 = 4 CB5 = 5 CB6 = 6 CB7 = 7 CB8 = 8		Code Blue car pre-selection order: It is possible to establish which cars are better able to respond to a Code-Blue Call and prioritize these cars per CB1 through CB8 order. When there is a Code-Blue Call, car designated by CB1 will be evaluated first, then CB2 car if first one was not available. Note: Car number must use FUTURA™ group car numbering (i.e. #1-8)
COx	0-# cars	CO1 = 1 CO2 = 2 CO3 = 3 CO4 = 4 CO5 = 5 CO6 = 6 CO7 = 7 CO8 = 8		Car Order: The order in which car number x is displayed on Video Screen. These parameters can change the left-to-right relationship of cars 1 through 8 respectively. This is for the Dispatch screen. Note: Car number must use FUTURA™ group car numbering (i.e. #1-8)
CS1	0-65535			Control Status Word (Group) 1 (See CSW Bits p.12-4)
CS2	0-65535			Control Status Word (Group) 2 (See CSW Bits p.12-5)
CS3	0-65535			Control Status Word (Group) 3 (See CSW Bits p.12-6)
CS4	0-65535			Control Status Word (Group) 4 (See CSW Bits p.12-7)
CSW	0-65535			Control Status Word (Group) 0 (See CSW Bits p.12-3, not FLTXn param.): Used to manipulate all 16 bits of CSW simultaneously. Number to be entered must be hexadecimal equivalent of the 16 bits.
DCC	1 - 8	4	Number of Calls	Down Call Count trigger
DDT	10-255	20	Second	Down-Peak Duration Time: Minimum duration of time the system will remain on Down Peak Operation after being triggered.



PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
DLB	1 – # Fl.	2	Floor Number	Dual LoBby floor
DLR	0-# cars	1	Number Of Cars	Dual Lobby number of car Requests
DTT	10-960	70	Second	Down-Peak Trigger Time: If the average forecasted Down Call ETA exceeds this value, Down Peak operation will be activated.
DWT	0-65535	20	Second	Down Call long Wait Time trigger: If a Down Hall Call forecasted waiting time exceeds the value Down Peak Operation will be activated.
EPF	1 - # Fl.	1	Floor Number	Emergency Power Floor: Floor to which cars will return if emergency condition occurs. Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serves. It normally is set the same as the Main Fire Recall floor (FIR).
EPx	0-# cars	EP1 = 1 EP2 = 2 EP3 = 3 EP4 = 4 EP5 = 5 EP6 = 6 EP7 = 7 EP8 = 8		Emergency Power car selection order: During an Emergency power automatic recall operation, all the cars must be returned to the designated floor. The car at EP1 will be the first car to be returned, followed by EP2 through EP8. Note: Car number must use FUTURA™ group car numbering (i.e. #1-8)
FAL	1 – # Fl.	2	Floor Number	Fire Alternate Floor: Floor to which the cars will return to when on Fire Service Phase 1 Alternate. (FAL Activated). Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serves.
FBT	1-65535	1	Second	Fire Bypass Timer for fire GSA standard. Note: This is only applicable to GSA specific projects and is used to time out the Smoke Detector Bypass function



PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
FIR	1 - # Fl.	1	Floor Number	<p>Fire Recall Floor: Floor to which the cars will return to when on Fire Service Phase 1.</p> <p>Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serves.</p>
GP0	0-65535		Number	<p>General Purpose Reserved variable used on a per job basis.</p> <p>Note: Documentation on the use of this parameter (if implemented) provided with the job.</p>
GP1	0-65535		Number	<p>General Purpose Reserved variable used on a per job basis.</p> <p>Note: Documentation on the use of this parameter (if implemented) provided with the job.</p>
GP2	0-65535		Number	<p>General Purpose Reserved variable used on a per job basis.</p> <p>Note: Documentation on the use of this parameter (if implemented) provided with the job.</p>
GP3	0-65535		Number	<p>General Purpose Reserved variable used on a per job basis.</p> <p>Note: Documentation on the use of this parameter (if implemented) provided with the job.</p>
IRC	0-# cars	0	Car Number	<p>Must be set to select which car will be the Inconspicuous Riser Car when the IR switch is activated. If set to 0, no IR Car will be selected.</p> <p>Note: Car number must use FUTURA™ group car numbering (i.e. #1-8)</p> <p>Note: This is only effective if system was configured with an (Optional) Independent Riser</p>
LBY	1 - # Fl.	1	Floor Number	<p>LoBbY Floor: Main lobby designation</p> <p>Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serves.</p>



PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
LER	0-#cars	0	Number of Cars	Lobby Elevator Request: Number of cars that must be at lobby floor is equal to 'n'. Note: This will cause an elevator to stop at the lobby if traveling up from a floor below the lobby and there are not enough elevators at the lobby to fulfill this requirement.
LRP	0-960	8	1/16 Second	Lobby Request Penalty time
MEP	1-# Cars	1	Number of Cars	Maximum cars for Emergency Power: Maximum number of cars which can operate simultaneously under emergency power.
MID	2-40	18	1/16 Second	Minimum ETA Differential: Min differential ETA during call SCAN to prevent reassignment. For example, if MID is set at 3/4 sec (12), no calls will be reassigned when the Minimum ETA is less than MID.
MIE	0-65535			Minimum Eta compare. Used with job specific software to set a minimum limit on the ETA to execute a specific function.
MTT	0-960	300	1/16 Second	Max allowed Travel Time: Maximum (ETA) to lobby in order to consider a car in a good position to become next-up or to be dispatched to the lobby floor.
MXD	2-36	12	Second	Maximum ETA Differential: Max differential ETA during call SCAN to force a reassignment. For example, if MXD is set for 2 seconds (32), another car must be in a better position by more than MXD to force a reassignment to that car.
MXE	0-65535			Maximum ETA compare. Used with job specific software to set a maximum limit on the ETA to execute a specific function.
NCF	1-12	0	Number	Number of Codes available per Floor for keypad security. This number multiplied by number of floors must be 299 or less. NOTE: If this value is changed, all new codes must be entered. Note: This is only effective if system was configured with an (Optional) Coded Car Call Security.



PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
NDH	5-480	220	1/16 Second	<p>Next-Up Door Hold time: Door Open time when at the lobby floor and assigned as the next up.</p> <p>Note: When calls are registered, this value becomes smaller in order to release the car faster</p>
NDP	10-1440	350	Second	<p>Next-Up Dispatch Penalty time: When a car is Next-Up, a call's ETA must be greater than NDP parameter. For better traffic handling, this value should be smaller in a Duplex operation to enable lobby car to be more responsive.</p>
NZN	0-6	0	Number of Zones	<p>Number of ZoNe floor pointers (ZN1 through ZN6). This is to be set to the maximum number of Zones you would like. Setting this requires to use the LER parameter also.</p> <p>Example: If there are 4 cars total in the group and LER is set to 0 then NZN should be set to 4. If LER is set to 1 then NZN should be set to 3.</p>
PFT	0-60	8	2 Second	<p>Time the car must be Free to Park: This sets the time the elevators have to set idle before zoning using PFT parameter.</p> <p>Note: PFT is in increments of 2 seconds, so if PFT is set to 5 then the time period is 10 seconds.</p>
RLB	1-# floors	2	Rear Floor Number	<p>Rear LoBby floor: This designates which rear floor as a lobby.</p> <p>Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serve</p>
RLR	0-# cars	1	Number of Cars	<p>Rear Lobby number of car Requests: Number of cars that must be at the rear lobby floor is equal to 'n'.</p> <p>Note: This will cause an elevator to stop at the lobby if traveling up from a floor below the lobby and there are not enough elevators at the lobby to fulfill this requirement.</p>
RRT	0-65535	20	Second	<p>Remote Car Recall Travel Time. Time allowed for remote car to travel to emergency power floor during Recall operation.</p>



PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
RST	0-65535	5	Second	Remote car Sequence Time . Time delay to select next remote car during emergency power recall operation.
RTO	0-65535	25	Second	Remote car Time-Out during emergency power recall operation. Time delay for remote car to give drive running signal after group has given a drive enable signal.
S5C	0-FFFF			Not used on FUTURA™ HYDRO.
TXC	0-7			TeXt Color
UCC	1-20	6	Number of Trips	Up-Peak Car-Call Count trigger: Number of trips from Lobby registering more than 2 Car Calls will trigger Up Peak operation mode.
UDP	10-960	60	1/16 Second	Up-Peak Dispatch Penalty time.
UDT	10-255	15	Second	Up-Peak Duration Time : Minimum duration of time the system will remain on Up Peak Operation after being triggered
ULC	1-20	5	Number of Trips	Up-Peak Load Switch Count trigger: Number of trips (in a time interval) from the lobby floor with the load weigher activated which will trigger Up Peak operation. (Normally Hydraulic elevators are not equipped with load weighers, however the system is equipped to handle this type of option if needed.)
VP1	1-# floors	0	Floor Number	Selects the floor at which the VIP1 input is used. i.e. if set to 4 then floor 4 would be the VIP floor when VIP1 input is activated. Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serves



PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
VP2	1-# floors	0	Floor Number	Selects the floor at which the VIP2 input is used. i.e. if set to 4 then floor 4 would be the VIP floor when VIP2 input is activated Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serves
ZN1	1-# floors	1	Floor Number	ZoNe One (1) floor pointer Set this to the floor stop number where you want a car to zone to for Zone 1 Note: This is to be set to the landing number of the group and is counted from the lowest landing the group serves
ZN2	1-# floors	1	Floor Number	ZoNe Two (2) floor pointer Set this to the floor stop number where you want a car to zone to for Zone 2
ZN3	1-# floors	1	Floor Number	ZoNe Three (3) floor pointer Set this to the floor stop number where you want a car to zone to for Zone 3
ZN4	1-# floors	1	Floor Number	ZoNe Four (4) floor pointer Set this to the floor stop number where you want a car to zone to for Zone 4
ZN5	1-# floors	1	Floor Number	ZoNe Five (5) floor pointer Set this to the floor stop number where you want a car to zone to for Zone 5
ZN6	1-# floors	1	Floor Number	ZoNe Six (6) floor pointer Set this to the floor stop number where you want a car to zone to for Zone 6



GROUP RELATED CAR ETA PARAMETERS

Note: <REE> command must be equal to the car number to access these parameters.

PARAMETER	RANGE	DEFAULT	UNITS	DESCRIPTION OF GROUP ADJUSTMENT PARAMETER
ACC	16-255	30	1/16 Second	Average ACC eleration Time: Average time car needs to Accelerate to top speed.
ATT	8-160	60	1/16 Second	Average (passengers) Transfer Time: The average time the doors are fully opened. A value of 64 (4 seconds) is about normal.
BTT	0-720	0	1/16 Second	Blind Travel Time: Not used on FUTURA™ HYDRO.
DCT	16-160	40	1/16 Second	Door C losing Time. Average time car needs to close its doors.
DEC	16-255	30	1/16 Second	DEC eleration Time: Average time it takes car to decelerate from top speed.
DOT	16-160	30	1/16 Second	Door O pening Time. Average time car needs to open its doors.
GPT	0-720	0	1/16 Second	Generator Start Penalty Time: Not used on FUTURA™ HYDRO.
SPE	4-48	12	Calc.	SP eed of E levator in Time Units: One typical floor travel time. If the average floor height (H) is 12 feet, and the speed (S) of the car is 500 FPM then one floor travel time in "tu", or "time units" (16 "tu" in one second) is: $(h / (s / 60)) * 16$ (12/ (500/60)) * 16 = 23 tu or {H in meters*3.28} / {(S in m/s)/0.3048}*16=tu

