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Motion Group Supervisor

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Important Precautions and Useful Information

This preface contains information that will help you understand and safely maintain MCE equipment. We strongly recommend you review this preface and read this manual before installing, adjusting, or maintaining Motion Control Engineering equipment. This preface discusses:

- Safety and Other Symbol Meanings
- Safety Precautions
- Environmental Considerations
- In This Guide

Safety and Other Symbol Meanings



This manual symbol is used to alert you to procedures, instructions, or situations which, if not done properly, might result in personal injury or substantial equipment damage.



Caution

This manual symbol is used to alert you to procedures, instructions, or situations which, if not done properly, might result in equipment damage.



This manual symbol is used to alert you to instructions or other immediately helpful information.

Safety Precautions



Danger

This equipment is designed to comply with ASME A17.1, National Electrical Code, CE, and CAN/CSA-B44.1/ASME-A17.5 and must be installed by a qualified contractor. It is the responsibility of the contractor to make sure that the final installation complies with all local codes and is installed in a safe manner.

This equipment is suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes, 600 volts maximum. The three-phase AC power supply to the Drive Isolation Transformer used with this equipment must originate from a fused disconnect switch or circuit breaker sized in conformance to all applicable national, state, and local electrical codes in order to provide the necessary motor branch circuit protection for the Drive Unit and motor. Incorrect motor branch circuit protection will void the warranty and may create a hazardous condition.

Proper grounding is vitally important to safe and successful operation. Bring your ground wire to the system subplate. You must choose the proper conductor size and minimize the resistance to ground by using the shortest possible routing. See National Electrical Code Article 250-95 or the applicable local electrical code.

Before applying power to the controller, physically check all the power resistors and other components located in the resistor cabinet and inside the controller. Components loosened during shipment may cause damage.

For proper operation of the AC Drive Unit in your controller, you must make sure that: 1) A direct solid ground is provided in the machine room to properly ground the controller and motor. Indirect grounds such as the building structure or a water pipe may not provide proper grounding and could act as an antenna to radiate RFI noise, thus disturbing sensitive equipment in the building. Improper grounding may also render any RFI filter ineffective. 2) The incoming power to the controller and the outgoing power wires to the motor are in their respective, separate, grounded conduits.

This equipment may contain voltages as high as 1000 volts. Use extreme caution. Do not touch any components, resistors, circuit boards, power devices, or electrical connections without ensuring that high voltage is not present.

Environmental Considerations

- Keep the machine room clean.
- Controllers are generally in NEMA 1 enclosures.
- Do not install the controller in a dusty area.
- Do not install the controller in a carpeted area.
- Keep room temperature between 32 and 104 degrees F (0 to 40 degrees C).
- Prevent condensation on the equipment.
- Do not install the controller in a hazardous location or where excessive amounts of vapors or chemical fumes may be present.
- Make certain that power line fluctuations are within plus or minus 10% of proper value.

Air Conditioned Equipment Cabinets

If your control or group enclosure is equipped with an air conditioning unit, it is very important to observe the following precautions. (Failure to do so can result in moisture damage to electrical components.)

- Maintain the integrity of the cabinet by using sealed knockouts and sealing any holes made during installation.
- Do not run the air conditioning while the cabinet doors are open.
- If you turn the air conditioner off while it is running, wait at least five minutes before restarting it. Otherwise, the compressor may be damaged.
- Observe the recommended thermostat setting (75 degrees) and follow recommended maintenance schedules.
- Make certain that the air conditioning drain tube remains clear to avoid water accumulation in the unit.

In This Manual:

This manual is the installation and operating guide for the Motion Group supervisor. When viewed online as a pdf file, hyperlinks (buttons or blue text) link to related topics and informational websites. The manual includes:

- **Contents**: Table of Contents. When viewed online as a pdf file, hyperlinks in the Contents link to the associated topic in the body of the manual.
- Section 1. Installation and operating information
- Index: Alphabetical index to help you find information in the manual. When viewed online as a pdf file, index entry page references are hyperlinks to the associated information in the body of the manual.

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Motion Elevator Groups

A Kinetek Company®

In this Section

This section contains:

- Group Overview: Physical description. Group Overview on page 2.
- Group Connections: Input and Output definitions. Group Field Connections on page 6.
- Group Configuration. Group setup to serve building. Group Configuration on page 9.
- Edit Parameters: Car operations. Edit Job Parameters on page 26.
- Change/Disable Password. Change/Disable Password on page 43.
- Write Parameters to EEPROM. Write Parameters to EEPROM on page 44.
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- MCP Software version display. MCP Software Version Display on page 47.
- Controller CAN Communication Diagnostics. Controller CAN Communication Diagnostics on page 48.
- Serial CAN Communication Diagnostics. Serial CAN Comm. Diagnostics on page 49.
- Serial Hall Call Node Board. SC-3HN Three Input Serial Hall Call Node Board on page 57. (Serial hall call supported only with v3.xx or newer MCP software.)



Group Overview

Motion control architecture allows groups of up to eight cars. The group controller is in a separate, wall-mounted cabinet. All group hall call risers are connected to the group cabinet.

Figure 1. Group Control



MC-MCP Motion Group Processor Board

The MC-MCP is the processing board for the mGroup dispatcher. The I/O and hub boards used in mGroup are the same as those used in the car controllers. Refer to car controller manuals for a description of those boards.

Note

Elevator and group control software changes continuously as new capabilities are added. This causes parameters to appear on information screens that will not be supported until consolidated in a future release. In these instances, the accompanying description will state "Future Release."







MC-MCP Board Details

MC-MCP board field connections, DIP switches, jumpers, and momentary switches are detailed in the following table.

Table 1	MC-MCP Board Connections	lumners	and Switches
	NIC-INCE BOALD CONNECTIONS,	Jumpers	and Switches

Component	Functionality		
	Connectors		
J4	CAN		
J6	CAN, internal to HC-CHP board		
J7	CAN, external network		
J9	16 VAC input		
J10	Ethernet connection, monitoring		
J12	MCE micro SD card slot		
J13	CAN		
J14	RS 232		
	DIP Switches		
SW1	MCE use only.		
SW2	MCE use only. Display test.		
SW3	MCE use only. ARM2, U18 programming.		
	Jumpers		
JP1	2-position jumper. A = Normal (default). B = Boundary Scan mode for U3. Reserved for MCE use only.		
JP2	2-position jumper. A = Normal (default). B = Board programming. Reserved for MCE use only.		
JP3	When installed, enables signal termination for CAN connector J4. CAN termination is enabled for the devices at the beginning and end of the CAN path only.		
JP4	When installed, enables signal termination for CAN connector J7. CAN termination is enabled for the devices at the beginning and end of the CAN path only.		
JP5	2-position jumper. A = Normal (default). B = Flash erasure, U18. Reserved for MCE use only.		
JP6	2-position jumper. A = Normal (default). B = Boundary Scan mode for U18. Reserved for MCE use only.		
JP7	2-position jumper. A = Normal (default). B = Flash erasure, U3. Reserved for MCE use only.		
JP8	2-position jumper. A = Normal (default). B = Programming use, U18. Reserved for MCE use only.		
JP9	When installed, programming use for U14. Normal = Not installed (default).		
Momentary Switches			
S1	RSTdsPIC. Resets LCD controller U2.		
S2	RSTA1. Resets MCP U3.		
S3	RSTST. Resets processor communications interface ST, U14.		
S4	RSTA2. Resets MCP.		

Component	Functionality	
Diagnostic LEDs		
DS1	ON = CAN processor ARM2 running.	
DS2	ON = Parallel Port Processor U14 running.	
DS3	ON = Active connection to J8.	
DS4	ON = LCD controller U2 running.	
DS5	ON = Ethernet, X-Port, RS-232 processor ARM1 running.	

Table 1. MC-MCP Board Connections, Jumpers, and Switches

Back Up Dispatching

If back up dispatching was ordered for the job, there will be a second MC-MCP processor board in the dispatcher cabinet. If the primary board fails, the second immediately takes over dispatching. Please refer to MC-MCP Motion Group Processor Board on page 3.

If a change is made in the field to the processor parameters, it must be made to both boards. Please refer to "System Performance" on page 32.

Firmware Update

mGroup firmware may be updated using the mPAC hand-held tool or the micro SD card slot. Instructions are provided when an update is distributed.

mGroup to Car Connections

Always make connections exactly as shown in the prints for your installation. 18-AWG, shielded, twisted pair conductors are normally used.



Group Field Connections

Field inputs and outputs will vary depending upon job requirements. Your installation may not use all the inputs and outputs described in this section.

Inputs

The physical locations of inputs to the group are shown on the job prints. This section lists and defines the potential input types.

- ALT: (Alternate Eligibility Map) When active, changes the normal eligibility map to use the alternate eligibility map definition.
- AUTO: Enables automatic emergency power response operation by the dispatcher when commercial power is lost.
- CRC(x): (Cross Registration Car "x" [x is the label of a cross registered car]) Used to indicate when a cross registered car is in service and can accept hall calls. These inputs are enabled only when Legacy Group Interface is set to Cross Registration. "Legacy Group Interface" on page 15. (Inputs used on version 3.xx and newer group software only.)
- EB A EB H: Emergency Bus inputs. In installations where multiple groups share emergency power sources or where emergency power sources are shared between groups, these inputs (and associated BR outputs) allow the system to equitably share access to limited power. Future release.
- EC: Energy Conservation. Directs the dispatcher to run all cars in the group according to their energy conservation speed curve. This curve is generally used during off-peak traffic hours when conserving power may be more desirable than achieving minimum floor-to-floor times.
- EPI: Emergency Power input. When active (input polarity is user-selectable), informs the dispatcher that it is operating on emergency power. Depending on the sophistication of the emergency power system, this input may be automatically activated by external power equipment or may be a mechanical switch set by a human after emergency power has been applied to the system. When this input is active, the group will begin the emergency power sequence.
- EPIA/EPIB: Emergency Power inputs per generator source (A or B). When emergency power is provided to cars in the group by two sources (usually generators), the EPI input described above is "separated" into two inputs; one for each generator. While setting emergency power parameters, you choose which feeder/generator source provides power to which group cars. If EPIA or B becomes active, the dispatcher will begin the emergency power sequence for the affected cars while allowing unaffected cars to continue to run on normal power. Future release.
- FBY: Not used in this release.
- HBF: Hall Call Bus Failure, active low input. The dispatcher monitors hall call bus power. If power is lost, typically caused by an opened fuse, this input will be activated and HBF will drop highlighting on the status display while HCB bus fail will show in group status. To preserve service under these conditions, cars will sequentially stop at each floor in both up and down directions to accept passengers.
- HLK: When physical hall call lockout switches are present at particular landings/risers, inputs are created to support them. When one of these switches is active, HLK is high-lighted on the mGroup display. Future release.

- HLOF: When active, HL and HR hall call locks are overridden. Usually connected to a keyed switch in a security lobby panel. Future release.
- HP: High Performance. When active, this input directs the dispatcher to run all cars in the group according to their High Performance speed curve. This curve is generally used during peak traffic hours when conserving power may be less important than achieving minimum floor-to-floor times. (Controller software must be capable of supporting this feature.)
- LKON: Lock On. When active, all non-lobby car calls are locked out on all group cars. Usually connected to a keyed switch in the lobby security panel. Future release.
- LKOF: Lock Off. When active, all car call locks imposed by timers, or a monitoring system, or the LKON input are overridden. Usually connected to a keyed switch in the lobby security panel. Future release.
- MRET: Manual Return. Manually initiates emergency power recall sequence.
- NPWR: Normal Power. When activated, informs the dispatcher that normal commercial power has been applied to the system following a period of operating on emergency power sources. Depending on the sophistication of the emergency power system, this input may be automatically activated by external power equipment or may be a mechanical switch set by a human after commercial power has been restored to the system. Future release.
- PTI: Power Transfer Input. When activated, causes the dispatcher to stop all cars at the next landing in the direction of travel, open the doors, and shut down. Used when transferring from emergency to normal power.
- REC / nREC: (Main Fire) Recall switch input. When active, initiates Fire Phase I recall to (usually) the lobby floor. Future release.
- RECA: Recall switch input. When active, initiates Fire Phase I recall to (usually) the lobby floor. ANSI/ASME 2000 Code only. Future release.
- RUNA RUNH: Emergency Power (manual) car selection inputs. These inputs allow you to manually select a car to put into emergency power operation Phase 1 or Phase 2. To manually select a car on emergency power Phase 1, the MRET input must be active.
- SASW: Seismic Activity Switch. When active, informs the dispatcher that seismic activity has been detected. Once triggered, the seismic switch remains on until a reset switch is activated. When SASW is enabled, the dispatcher will send the seismic hall direction to the cars. Future release.
- SEC: Security. When active, indicates that the optional security access code feature is active on this dispatcher. Future release.

Outputs

The physical locations of outputs from the group are shown on the job prints. this section lists and defines the potential output types. Outputs from elevator equipment are monitored. When an output is active, it will be highlighted on the status display screen in the elevator or dispatcher to make an observer aware of the activity.

Most outputs are non-latching. They are active while the condition exists or time out after a few seconds. Some outputs are latching. Dispatcher outputs include:

• BAL: Balanced. Used to light an indicator and/or sound an alarm to alert observers when balanced service mode is active. Selection is based on time and up and down hall call imbalance parameters.



- DF: Dispatcher Failure. Used to light an indicator and/or sound an alarm to alert observers in the event of a dispatcher to car communication failure.
- DNP: Down Peak. Used to light an indicator and/or sound an alarm to alert observers when down peak service mode is active. Selection is based on time and up and down hall call imbalance parameters.
- EPGA or B: Emergency Power from feeder A or B. Used to light an indicator and/or sound an alarm to alert observers when the dispatcher and/or designated cars are operating on emergency power provided by that feeder. Future release.
- EPL: Emergency Power Light. Used to light an indicator and/or sound an alarm to alert observers when the dispatcher is operating on emergency power.
- EPLn: Emergency Power Light. Used to drive an indicator to alert observers when a particular car "n" in the group is operating on emergency power. The output may be off, on, or flashing depending upon the emergency power status of the car:
 - Not on emergency power: Light off.
 - On emergency power but halted: Light flashing.
 - Car returns to recall floor on manual emergency power Phase 1: Light flashing.
 - Car returns to recall floor on automatic emergency power Phase 1: Light on.
 - Car finishes emergency power Phase 1 return and is shut down: Light off.
 - Car is manually selected on emergency power Phase 2: Light on.
 - Car is automatically selected on emergency power Phase 2: Light off.
 - Car returns to emergency power recall floor after being taken off Phase 2: Light on. (MRET should be off at this time. If MRET is on, the EMLn light will flash.)
- FR1L: Fire Service Light Lobby. When active, indicates that at least one car in the group is on Fire Phase 1 (recall).
- HF: Hall Button Fail. Used to light an indicator and/or sound an alarm to alert observers in the event of a dispatcher hall call bus failure. Enabled by activation of the HBF (active low) input.
- RTDA: Return (emergency power recall for feeder source A complete) output. For groups using two feeder power sources or if two feeder power sources are used for different cars within a group, informs the next dispatcher or simplex in the recall sequence that it may begin emergency power recall for cars powered by feeder B. Future release.
- RTDB: Return (emergency power recall for feeder source B complete) output. For groups using two feeder power sources or if two feeder power sources are used for different cars within a group, informs the next dispatcher or simplex in the recall sequence that it may begin emergency power recall for cars powered by feeder A. Future release.
- UPP: Up Peak. Used to light an indicator and/or sound an alarm to alert observers when up peak service mode is active. Selection is based on time and up and down hall call imbalance parameters.

Group Configuration

You configure the group to the building environment using a touchscreen LCD. The LCD displays information over the greater area of the screen and has a group of entry buttons, the numerals 0 - 9, Left, and Right across the bottom of the screen. The numeric buttons allow numeric value entry, act as ENTER keys, toggle Yes/No selections, or scroll through options depending on screen requirements. The Left and Right buttons move the cursor horizontally or vertically depending on screen entry arrangement.

Dispatcher Screen

The dispatcher screen is displayed during normal group operation. It provides time, date, group operating mode, an overview of hall call activity, active inputs to and outputs from the group, car status, and dispatching assignments per car.





Display Interpretation

- Group operating modes may be configured to be selected by timer operation or dynamically (depending upon detected traffic imbalance):
 - Balanced: Serving up and down traffic equally (off-peak operation).
 - Lobby Peak: Favoring traffic departing the building lobby. Typically used during peak building occupant arrival times.
 - Up Peak: Favoring traffic moving in the up direction.
 - Down Peak: Favoring traffic moving in the down direction.



- Active hall calls are highlighted on the display, indicating floor number, call direction, and riser.
 - 'n' DF: Down call on Front riser.
 - 'n' DR: Down call on Rear riser.
 - 'n' UF: Up call on Front riser.
 - 'n' UR: Up call on Rear riser.
 - 'n' IUF: Up/front call on Inconspicuous riser.
 - 'n' IUR: Up/rear call on Inconspicuous riser.
 - 'n' IDF: Down/front call on Inconspicuous riser.
 - 'n' IDR: Down/rear call on Inconspicuous riser.
 - 'n' MF: Call on Medical / hospital emergency front riser.
 - 'n' MR: Call on Medical / hospital emergency rear riser.
- Car Dispatching, DSP: Shows assigned hall calls per car.
- Car Status, STA:
 - NOR: Normal operation
 - IND: Independent Service
 - REC: Fire Recall, Phase I
 - FIR: Fire Service Phase II
 - ATT: Attendant Service
 - BYP: Attendant or automatic service with weight or attendant-implemented bypass
 - MLF: Malfunction (no car communication)
 - FLT: Fault
 - INS: Inspection
 - MR2: Medical Phase 2
 - WTD: Weight Dispatch (car leaves lobby when predetermined weight attained)
 - SAF: Safety device open
 - DCB: Normal operation with Door Close Button lobby service override
 - MR1: Medical Emergency recall from car riser (has priority over group med recall)
 - SES: Earthquake with car removed from service
 - HBF: Hall Bus Failure
 - RSY: Encoder Resync
 - INI: Car removed from service door/gate close limit failure, encoder failure, test operation, brake or overspeed fault, disconnect door service)
 - OGR: Temporarily Out of Group (out of service switch, return to lobby switch)
 - OSV: Out of Service, MPU restart
- Car Location, CAR: Floor at which car is currently located.

Placing Calls

To place a hall call:

- Touch the desired hall call location to move the cursor to that spot.
- Touch again, or press any numeric button to place the call.

Note

The touch screen is sensitive and densely populated. If you are navigating by touching, you will find it easier to use something like a pencil eraser or stylus to make selections. Alternatively, move the cursor where you want by touching, then press a numeric "button" to select.

Menu Access

To access configuration menus:

- Touch to select <MENU>.
- Touch again or press any numeric button to access the menu.

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Menu Selection

When you choose to access configuration menus from the primary display, a menu selection screen is displayed.

Figure 4. Menu Selection Screen

- RETU	RN TO DISPATCHER SCREEN		
- EDIT	JOB CONFIGURATION		
∎ - EDIT	JOB PARAMETERS		
- MCP	SOFTWARE VERSION DISPLAY		
- CONT	ROLLER CAN COMM. DIAGNOSTICS		
- SERI	AL CAN COMM. DIAGNOSTICS		
- CHAN	GE / DISABLE PASSWORD		
- WRIT	E PARAMETERS TO EEPROM		
- COPY	PARAMETERS TO/FROM SD		
- SWITCH TO MONITORING			
0 1	2 3 4 5 6 7 8 9 FT RGT		

- Touch to move the cursor to your selection
- Touch again or use any numeric button to select

Return To Dispatcher Screen

• Return to the Dispatcher Screen

Edit Job Configuration

• Adjust group settings to suit the building

Edit Job Parameters

• Adjust group to car control settings

MCP Software Version Display

• Displays the bootloader and application versions of the dispatcher processors and system boards.

Controller / Serial CAN Comm. Diagnostics

• These menus aid in diagnosing communications problems in the Controller CAN and Serial CAN communications buses respectively.

Change / Disable Password

• Set up password access to group menus

Write Parameters to EEPROM

• When a menu change affects EEPROM stored information, the LCD will instruct you to write parameters to EEPROM and then possibly to physically reset the processor (press the RSTA2 button).

Copy Parameters To/From SD

• Allows you to use an SD card to back up parameters or to copy and move parameters from one dispatcher to another.

Switch to Monitoring

• When Switch To Monitoring is selected, a series of menus allowing you to set up communications protocol for monitoring applications appears.

Edit Job Configuration

The menus here allow you to adjust the group to building needs.

Note

Some changes to these screens will require the user to save changes (write parameters to EEPROM) and reset the MCP board by pressing the RSTA2 button.

Decision Menu

Once you have elected to edit the job configuration, you will see a decision menu. Selecting NO allows you to view but not edit the job configuration.

Figure 5. Job Configuration Factory Settings Decision Menu

- RETURN TO DISPATCHER SCREEN - EDIT JOB CONFIGURATION ARE YOU SURE YOU WANT TO CHANGE? - YES NO -
- CHANGE / DISABLE PASSWORD - WRITE PARAMETERS TO EEPROM - COPY PARAMETERS TO/FROM SD
- SWITCH TO MONITORING 0 1 2 3 4 5 6 7 8 9 FT RGT

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Group Definition Menu

The first of the Job Configuration menus defines the group. If they will be needed to support changes made to this menu, the system will automatically create appropriate menus and inputs and/or outputs to support the changed feature. For example, referencing the menu below, if you were to change the Legacy Group Interface from NONE to Cross Cancellation or Cross Registration, the group would create the required outputs in software. (Obviously, you would have to have the physical I/O boards in the system to make the required mechanical connections.)

Figure 6. Group Definition Menu



- <Back Menu Next>: Navigation.
 - Position the cursor on Back and press a numeric button, or tap again, to go to the previous menu.
 - Position the cursor on Menu and press a numeric button, or tap again, to go to the main screen.
 - Position the cursor on Next and press a numeric button, or tap again, to go to the next menu.
- Total Cars:

The number of cars connected to this group control.

- Car Name: Desired label for each car (two characters maximum).
- Lobby Flr: Designated floor to be served as the lobby floor per car.
- Top Floor: Number of floors served by this car.
- Door Open: Door openings for each car (F = front only, B = front and rear).

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- Medical Plus Special Calls Amount: Emergency medical and other (usually) switch activated calls for special services are handled differently than standard riser calls. Determine the number of special calls required and enter that number here. This enables a sub-menu to configure inputs and outputs for the calls, Medical / Special Call Menu on page 19.
- Emergency Power: This selection determines what inputs and outputs are created to coordinate emergency power operation.
 - Stand Alone: Emergency power for group cars is independent of other groups or elevators in the building. (Example: one emergency generator provides power to this elevator group only.)
 - Split: If cars in a group are split across different generators, select this option. Future release.
 - Master: Emergency power for this group is shared with another group or elevator. Master means that this group will initiate the emergency power return sequence and will have preference to return to service on emergency power operation. Future release.
 - Slave: Emergency power for this group is shared with another group or elevator. Slave means that this group will recall on emergency power (Phase 1) after another group or elevator has finished its recall. The Master designated group or elevator will have preference to return to service on emergency power operation over this group. Future release.
- Legacy Group Interface: Typically NONE. However, if there is a legacy group control that still shares elevator control with mGroup, Cross Cancellation or Cross Registration will allow mGroup to increase the efficiency of the combined group.
 - Cross Cancellation: mGroup will cancel a hall call placed on the legacy group control if mGroup determines that an mGroup car is able to service the call more efficiently. Future release.
 - Cross Registration: mGroup will move a registered hall call to the legacy controller if mGroup determines that a legacy car is able to service the call more efficiently.
- Enable Annunciator Lights: Y/N (Future release.)
 - Yes: The group will announce car arrival at a hall call by activating an indicator light or light/gong at the landing. (Output must be physically present.)
 - No: The group will not activate an indicator light or light/gong to announce car arrival.
- Display Security Access Code Page: Y/N (Future release.)
 - Yes: Display Security Access Code menu.
 - No: Do not display Security Access Code menu. Allows the user interface to skip unused screens, accelerating the configuration process.
- Display I/O Manual Override Menus: Y/N
 - Yes: Display Manual Override Menus.
 - No: Do not display Manual Override Menus. Allows the user interface to skip unused screens, accelerating the configuration process.
- Title: Enter the text to be displayed on the second line of the primary group display.
 - Use LFT or RGT or tap the screen to move cursor.
 - Press any numeric button to scroll through letters and numbers. (The 9 key scrolls backwards.)



Floor Eligibility Menu

This menu allows you to configure elevator service to match the floors and openings (front/rear) to be served. This menu is also used to indicate if physical hall locks are supported per floor and riser.

Figure 7. Floor Eligibility Menu

	Physical hall lock at (Front/Rear)	riser
	Openings served per	car
Floor label ——	FLOORELIG/HALLLOCK <back< th="">MENUNEXT>FLHLABCFRFRFRFRFR1NNYYYY2NNYYYY3NNYYYY4NNYYYY5NNYYYY6NNYYYY7NNYYYY8NNYYYY9NNYYYY10NNYYYY11NNYYYY12NNYYYY13NNYYYY15NNYYYY15NNYYYYLEGEND:FL-FLOORMARKINGHL-HALLLOCK01234567890123456789FTRGT</back<>	

- HL If physical hall locks are installed at particular floors and risers, their presence must be indicated here: (Future release.)
 - Position cursor on F or R riser for floor
 - Press a numeric button or tap again to change N (no physical hall lock) to Y (physical hall lock present)
- · Enable front or rear opening per floor and car
 - Position cursor on F or R opening for desired car at desired floor
 - Press a numeric button or tap again to change N (no opening) to Y (opening)

Note

In the illustration above, no physical hall locks are present at any floor/opening and all openings and floors are accessible for all group cars.

If the Alt input is used, selecting <NEXT> from this menu will bring up the Alternate Floor Eligibility Map. The Alternate map will be used anytime the Alt input is active. See Alt on page 6.

Input Selection Menu

When the system is shipped, it is configured to support inputs required per the specification. Inputs are physically connected to UIO boards. Only those inputs acknowledged here will be monitored for activity and displayed on the Dispatcher Screen. (Hall calls are edited on a separate screen. Please refer to "Manual Override Riser Menu" on page 21.)

Figure 8. Input Selection Menu



- To program an input:
 - Position the cursor on the N next to the input name
 - Use any numeric button or tap again to change the N to a Y

Please refer to "Inputs" on page 6 for input definitions. If you are making changes to this menu, it may be important for you to understand more about HC-UIO boards, please refer to the description in the Motion controller manual.



Output Selection Menu

When the system is shipped, it is configured to support outputs required per the specification. Outputs are physically connected to UIO boards. Only those outputs acknowledged here will be monitored for activity and displayed on the primary group menu.

Figure 9. Output Selection Menu

OUTPU NAME BAL UPP DNP DF HF EPL FR1L EPLA EPLB EPLC	T SELECTION Y/N N N N N Y Y Y Y	< B A C K	MENU	NEXT>	
0 1	2 3 4 5	6 7 8	9	FTRGT	

N: Unused output Y: Programmed output

- To program an output:
 - Position the cursor on the N next to the output name
 - Use any numeric button or tap again to change the N to a Y

Please refer to "Outputs" on page 7 for output definitions. If you are making changes to this menu, it may be important for you to understand more about HC-UIO boards, please refer to the description in the Motion controller manual.

Medical / Special Call Menu

This menu supports Code Blue (Medical) or other special needs risers. If more than 16 call locations must be configured, additional screens will appear (when Next is selected). If you are making changes on this menu, you may need to understand more about how HC-UIO boards work, please refer to the Motion controller manual.

Note

This menu is enabled when a number is entered for the Medical plus Special Calls amount selection on the Group Definition menu. Please refer to "Group Definition Menu" on page 14. The number of entries on this menu matches the number entered for the Medical Plus Special Calls amount.

Figure 10. Medical / Special Call Menu

MEDICAL/SPECIAL CAL LOC LD S TYPE XC A 001 01 F MED N Y 002 01 F MED N Y 003 01 F MED N Y	L 1 < BACK MENU NEXT> B C Y Y Y Y Y Y Y Y
005 01 F MED N Y	Y Y
006 01 F MED N Y	Y Y
007 01 F MED N Y	Y Y
008 01 F MED N Y	Y Y
008 01 F MED N Y	Y Y
009 01 F MED N Y	Y Y
010 01 F MED N Y	Y Y
011 01 F MED N Y	Y Y
012 01 F MED N Y	Y Y
013 01 F MED N Y	Y Y
014 01 F MED N Y	Y Y
015 01 F MED N Y	Y Y
016 01 F UP N Y	N N
LEGEND: LOC-LOCATIO	N LD-LANDING NUMBER
S-SIDE XC-C 1 TO 8 - CAR ELIG - 0 1 2 3 4 5	ROSS CANCELLATION

To set up a call:

- Set the location (LOC).
 - If calls are discrete (each call button connected to an HC-UIO board), this is the I/O number on the UIO board(s) dedicated to special risers. Physically, UIO boards are labeled IO1 through IO16. Logically, as you add UIO

boards, what you see on the screen is tabled below. As shipped from MCE, labels are applied to the boards with the names of the connections as shown on the prints for the job.

Board ID (DIP SW1, switches 1-6)	Logical I/O
00	IO1 through IO16
01	IO17 through IO32
02	IO33 through IO48
03 - 31	Sequence as above





- Set the landing number (LD).
- Set the call opening side (S), F-Front, or R-Rear.
- Set the type of call (TYPE).
 - MED medical call
 - UP Inconspicuous riser, up service call
 - DN Inconspicuous riser, down service call
- XC: Not used in this release.
- Set which cars (1 8) are eligible to respond. Y(es) or N(o), per car.

Note

If the Alt input is used, selecting <NEXT> from this menu will bring up the Alternate Medical/ Special Call menu. The Alternate menu settings will be used anytime the Alt input is active. See Alt on page 6.

Manual Override Riser Menu

Hall call and lock inputs are connected to HC-UIO boards addressed from 00 to 31. The factory connection order is provided by the prints for the job. If necessary, on a per riser basis, the default input order may be overridden using the Manual Override menu. This also permits flex-ibility if inputs not originally specified are added later. For example, in the example below, the lock inputs from the hall calls have not been assigned. If this functionality is added later, additional UIO boards are added to the system and their I/O assigned here.

Figure 11. Manual Override Menu

MANUAL	OVERRIDE	RISER 1 <back< th=""><th>MENU NEXT></th></back<>	MENU NEXT>
FL UHE	F DHF HLF	UHR DHR HLR	LEGEND:
2 0.3	001 000	032 002 000	FL·FLOOR
3 033	8 003 000	034 004 000	MARKING
4 035	5 005 000	036 006 000	
5 03	007 000	038 008 000	U:UP
7 04	011 000	040 010 000 042 012 000	
8 043	8 013 000	044 014 000	D. DOWN
9 0 4 5	5 015 000	046 016 000	H:HALL
10 04	017 000	048 018 000	
12 05	021 000	050 020 000 052 000	L.LUCK
13 053	8 023 000	054 024 000	F:FRONT
14 055	5 025 000	056 026 000	OPENING
15 000	0 27 000	000 028 000	
			OPENING
			OTENTING
0 1			9 LET RGT

To assign or override:

- Position the cursor on the digit to be changed
- Use the appropriate numeric key to enter a new digit
- When you exit the menu, you will be prompted through the save process

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Input Manual Override Menu

This menu defines the physical location mapped for each programmed "spare" input and allows the user to reorder the default settings.

Figure 12. Input Manual Override Menu

INPUT	MANUAL	OVERRIDE	< B A C K	MENU	NEXT>
NAME	LOC NA	ME LOC			
REC	000 P	TI 007			
AREC	000 MR	ET 000			
BREC	000 HL	0F 000			
CREC	000 RE	CA 000			
EPI	002 A	LT 000			
RUNA	004				
RUNB	005				
RUNC	006				
FBY	000				
HBF	001				
HLK	000				
SASW	000				
AUTO	003				
LKON	000				
LKOF	000				
SEC	000				
HP	000				
EC	000				
NPWR	000				
LEGENI	<u> LOC -</u>	LOCATION			
0 1	2 3	4 5 6	7 8	9 -	FTRGT

Inputs not related to hall and car calls are referred to as "spare" inputs. They are assigned to HC-UIO boards with addresses set from 32 through 63. When a board has one of these addresses (set by DIP switch SW1, rockers 1 through 6), its input/output pattern is set as:

Figure 13. HC-UIO Board Configured for Spare Inputs and Outputs



DIP SW1, switches 7 and 8 set the baud rate at which the CAN bus communicates with this board. (Leave both in the OFF position.)

Table 3.	HC-UIO	Board DIP	SW1	Switches	7	and 8
10010 01		Doara Dri	••••	0111101100	•	

Sw 7	Sw 8	Baud Rate	Description
OFF	OFF	500 kbps	For boards inside the group, RJ12 cable from J2 on HC-UIO board to HC-CHP board Internal Network J1 through J10.
ON	OFF	250 kbps	For boards on the cartop, RJ12 cable from J2 on HC-UIO board to MC-LSI board LAN connectors. Caution: Do not connect to J3 on the MC-LSI (Landing System) board.
OFF	ON	125 kbps	Future use

DIP SW1, switch 9 sets the activation threshold for inputs IO1 through IO16.

Table 4. HC-UIO Board DIP SW1 Switch 9

Sw 9	Description
OFF	Sets Input activation threshold to 18 Volts ac or dc
ON	Sets Input activation threshold to 55 to 65 Volts ac or 18 Volts dc

Inputs assigned to the lowest addressed board (32) are numbered 001 through 008; inputs assigned to the next addressed board (33) are numbered 009 through 016; inputs assigned to the next addressed board are numbered 017 through 024; and so on.

Note

mGroup UIO boards with addresses 0 through 31 are used for hall call I/O exclusively.

In order to be valid, an input must:

- Have an assigned physical location (LOC) on an HC-UIO board (set up on the Input Mapping Manual Override Menu, page 22).
- Be activated on the Input Selection Menu, page 17.
- When you assign an input to a connector location, it will automatically appear and be enabled on the Input Selection Menu.

Example

On the example Dispatcher Screen, input HBF is assigned to 001 which is node I/O 1 on the first addressed UIO board. Note that it is also the first input displayed on the Dispatcher screen, page 9.

On our example Dispatcher Screen, input EPI is assigned to 002 which is node I/O 2 on the first addressed (32) UIO board. Note that it is the second input displayed on the Dispatcher Screen, page 9.



Output Manual Override Menu

This menu allows you to reassign the physical location mapped for each "spare" output programmed and allows the user to reorder the default settings.



OUTPUT MANUAL	OVERRIDE	< B A C K	MENU	NEXT>
NAME LOC BAL 000				
UPP 000 DNP 000				
DF 000 HF 000				
EPL 002 FR1L 001				
EPLA 003 EPLB 004				
EPLC 005				
			,	
	4 5 6	7 8	9 L	FTRGT

Outputs not related to hall and car calls are referred to as "spare" outputs. They are assigned to HC-UIO boards with addresses set from 32 through 63. When a board has one of these addresses (set by DIP switch SW1), its input/output pattern is set as shown below.

Figure 15. HC-UIO Board Configured for Spare Inputs and Outputs



DIP SW1, switches 7 and 8 set the baud rate at which the CAN bus communicates with this board. (Leave both in the OFF position.)

Table 5.	HC-UIO	Board DIP	SW1	Switches 7	and 8
	110 010	Doura Dri	U • • • •	011101103 /	

Sw 7	Sw 8	Baud Rate	Description
OFF	OFF	500 kbps	For boards inside the group, RJ12 cable from J2 on HC-UIO board to HC-CHP board Internal Network J1 through J10.
ON	OFF	250 kbps	For boards on the cartop, RJ12 cable from J2 on HC-UIO board to MC-LSI board LAN connectors. Caution: Do not connect to J3 on the MC-LSI (Landing System) board.
OFF	ON	125 kbps	Future use

DIP SW1, switch 9 sets the activation threshold for inputs IO1 through IO16.

Table 6. HC-UIO Board DIP SW1 Switch 9

Sw 9	Description
OFF	Sets Input activation threshold to 18 Volts ac or dc
ON	Sets Input activation threshold to 55 to 65 Volts ac or 18 Volts dc

Outputs assigned to the lowest addressed board (32) are numbered 001 through 008; outputs assigned to the next addressed board (33) are numbered 009 through 016; outputs assigned to the next addressed board are numbered 017 through 024; and so on.

Note

UIO boards with addresses 0 through 31 are used for call I/O exclusively.

In order to be valid, an output must:

- Have an assigned physical location on an HC-UIO board (set up on the Output Mapping Manual Override Menu, page 24).
- Be activated on the Output Selection Menu, page 18.
- When you assign an output to a connector location, it will automatically appear and be enabled on the Output Selection Menu.

Example

On the example Dispatcher Screen, output FR1L is assigned to 001 which is node I/O 9 on the first addressed UIO board. Note that it is also the first output displayed on the Dispatcher Screen, page 9.

On the example Dispatcher Screen, output EPL is assigned to 002 which is node I/O 10 on the first addressed UIO board. Note that it is the second output displayed on the Dispatcher Screen, page 9.



Edit Job Parameters

These screens are used to configure the behavior of the cars in the group. After selecting the Edit Parameters menu, the first screen displayed provides an opportunity to back out without making changes if the Job Configuration settings are not correct.

Figure 16. Edit Job Parameters Decision Menu

- RETURN TO DIDSPATCHER SCREEN - EDIT JOB CONFIGURATION - EDIT JOB PARAMETERS ARE YOU SURE JOB CONFIG. IS CORRECT? ■-YESNO-
- CHANGE / DISABLE PASSWORD - WRITE PARAMETERS TO EEPROM - COPY PARAMETERS TO/FROM SD
0 1 2 3 4 5 6 7 8 9 LFT RGT

- Yes: Proceed to Edit Parameters menus
- No: Back out without changes

Dispatching Mode Timing and Assignment

This screen allows you to set up timer based up and down peak modes, to set the call factors that will trigger dynamically assigned peak modes, and to set an emergency power recall floor. Peak mode selection may be timer based (as set up on this screen) or the system may select it dynamically when traffic conditions warrant.

Figure 17. Dispatching Mode Timing and Assignment Menu

	 BACK MENU MEX	T >
LONG HALL MODE HYSTE	CALL WAIT PRIORITY (SEC): 1 RESIS TIMER (SEC): 0	20
ST UP PK 1 00	ART END START EN :00 00:00 UP PK 2 00:00 00:	D 00
UP PK 3 00 UP PK 5 00	:00 00:00 UP PK 4 00:00 00: :00 00:00 UP PK 6 00:00 00:	0000
DN PK 1 00 HALL CALL	:00 00:00 DN PK 2 00:00 00: IMBALANCE UP PEAK (CALLS):	00008
HALL CALL HALL STALL	IMBALANCE DN PEAK (CALLS): DETECTION (SEC): 0	08 15
EMERGENCY	POWER RECALL FLOOR:	01
0 1 2	3 4 5 6 7 8 9 LFT R	GТ

• Long Hall Call Wait Priority (sec):

When a call has been registered for longer than this setting, the dispatcher assigns it high priority. Typically, this is set to about twice the average wait time for a hall call. In systems using cross registration, this setting also determines how long the dispatcher will wait for a call assigned to a legacy car to be answered before re-assigning that call to a Motion dispatched car.

- Minimum: 45 seconds
- Maximum: 999 seconds
- Default: 120 seconds
- Mode Hysteresis Timer (sec):

Sets the delay time the system will observe before dropping dynamically selected peak due to changing traffic conditions. This helps to avoid volatility across operating mode assignments due to temporary fluctuations in hall calls.

- Minimum: 1 second
- Maximum: 999 seconds
- Default: 30 seconds
- Timer Based Peak Operations

During each 24 hour period, midnight to midnight, up to six up peak and two down peak periods of operation may be specified.

• Use 24-hour format for time entries: 0 - 23 hour entries / 0-59 minute entries.

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• Hall Call Imbalance Up Peak Calls:

The difference between the number of active up calls in comparison to the number of active down calls that will trigger dynamic selection of up peak operation.

- Minimum: 1
- Maximum: 30
- Default: 8
- Hall Call Imbalance Down Peak Calls:

The difference between the number of active down calls in comparison to the number of active up calls that will trigger dynamic selection of down peak operation.

- Minimum: 1
- Maximum: 30
- Default: 8

Note

If timer based up and down peaks overlap, the down peak will take precedence. If an imbalance of calls causes dynamic selection of peak mode, it will override any currently active timer peak selection. In the latter case, when the dynamic peak de-selects, a currently active timer peak will re-assert.

• Stall Time-out (sec):

Determines the number of seconds the system will wait before placing the car into a temporary fault state (FLT) when the car is on the same floor as its hall call assignment but is stuck or cannot open its doors. While the car is in the fault state, the hall call will be reassigned. Default value is 15 seconds.

• Emergency Power Recall Floor:

Selects the floor to which group cars will recall when emergency power becomes available during a commercial power loss. (Phase 1 of emergency power operation.) (Set the emergency power recall floor on individual group cars to this same landing.)
Call Assignment Weighting and Timers

When making dispatching decisions, penalties are time added to a cars estimated arrival time at a hall call to allow the dispatcher to compensate for conditions that will delay one car in comparison to others or to favor assignment of one car over another.

Advantages are time subtracted from a cars estimated arrival time at a hall call to allow the dispatcher to favor assignment of one car over another.

Figure 18. Call Assignment Weighting and Timers Menu



- Penalties:
 - Generator Off: Penalty assigned to a car parked with its MG set dropped. Set to "0" for SCR drive systems. In general, the more cars that are available to dispatch, the higher this penalty should be set (less need to turn on the generator in a car with its generator off). For generator systems, multiply the number of cars by two for a good starting point value. Valid entries range from 0 to 10 with a default setting of 5. Future release.
 - This Car Up: Penalty assigned to the lobby car when calculating the best car to assign to a call. Larger values will cause the lobby car to remain in the lobby and another car in the system to be assigned hall calls. Valid entries range from 0 to 5 with a default setting of 1.
 - Next Car Up: Penalty assigned to the next car up when calculating the best car to assign to a call. Valid entries range from 0 to 5 with a default setting of 2.
 - Halted Time: Penalty assigned to a car depending upon the amount of time required for it to halt (decelerate) and cycle its doors. Valid entries range from 1 to 30 with a default setting of 2. A car with a slow door operator should be assigned a comparatively longer penalty.



- Advantages:
 - In Line Call: An advantage given to a car that will pass the active hall call in its present direction of travel. Valid entries range from 0 to 10 with a default setting of 5.
 - Call Coincidence: An advantage given to a car that has a car call at the floor for which the hall call is registered. Valid entries range from 0 to 10 with a default setting of 5.
- Doors Open Simultaneously?

For cars with front and rear doors, on Automatic (passenger) Operation only, set to Yes if both front and rear doors open together.

Note

Doors Open Simultaneously parameters on both dispatcher and car screens must be set alike.

• Reopen Door with Hall Call?

If set to yes, pressing the hall call button will cause a closing door to reopen or to be held open if constant pressure is applied. (The hall button will not hold the door beyond the Bypass Hall Call Time parameter unless the car has no car calls registered and no other hall assignments in the preferred direction of travel as indicated by the directional arrow.) This prevents a stuck hall call button from holding the car indefinitely. If set to no, the car will not reopen its doors if it has another hall assignment or car call registered. The default is no.

• Bypass Stuck Hall Call Timer (sec):

The number of seconds that a continuously pressed hall call button can be used to keep the car door open at a floor. (See Reopen Door with Hall Call above.) After this amount of time, the hall button is considered stuck and the car will be released. The timer starts when the car first stops to answer the hall call. The timer increments only if the car has a hall assignment or car call at another floor. The range is 0 to 999 seconds with a default of 30 seconds.

• Time Out of Service (sec):

Sets the amount of time that the car will be allowed to stand at a floor before the dispatcher puts it into FLT (fault) status and reassigns the hall call. The timer starts when the car arrives at the floor and the doors start to open. Setting the time too short will cause a car to go into fault mode too quickly for common problems like someone holding the doors. We recommend 30 seconds.

- Hosp. Recall Timeout Timer (sec): Sets the amount of time the door will remain open when the car is at the recall floor waiting to go on Phase 2 of Medical Emergency. When the timer expires, the car will close its door, go off Medical Phase 1, and rejoin the group. (Phase 2 was not initiated before the set time expired.)
- Hosp. Override Fire if Trig 1st? If set to yes, a car on Medical Phase 1 Recall will not respond to a subsequent Fire Phase 1 Recall but will continue traveling to, or remain standing at, the medical recall floor even though a Fire Recall has been initiated. If set to no, the Fire Phase 1 Recall will override the Medical Phase 1 recall and the car will proceed to the appropriate fire recall floor.

• Assign Hosp. Calls to Ind Cars?

If set to yes, cars on Independent service will be assigned to medical recall (code blue) calls. If set to no, cars on Independent service will be exempted from medical recall. In order to be effective, this parameter must be set to match the like parameter on the car parameter screen.

• Assign Hosp. Calls to Att Cars?

If set to yes, cars on Attendant service will be assigned to medical recall (code blue) calls. If set to no, cars on Attendant service will be exempted from medical recall. In order to be effective, this parameter must be set to match the like parameter on the car parameter screen.

- Lockout Inputs Normally Closed? Allows the user to specify the (normal operation) state of the switches connected at the hardware hall call lock inputs. Set to Yes if normally closed. Set to No if normally open. Future release.
- Lockout Car Calls w/Hardware Hall Lock? If set to yes, an active hardware hall lock input (see above parameter) will also lock out car calls for the associated floor. If set to no, an active hardware hall lock input will affect only the hall call for the associated floor. Future release.
- Drop Group Hall Calls for IR Cars?

If set to yes, a car running on inconspicuous riser (swing) will not be assigned group hall calls. If another group car is not available, the hall call will be dropped. If set to no, the group hall call will be latched, regardless of the availability of other cars. If the call is still active when the car on inconspicuous riser returns to group service, it may be assigned to answer the call.

- HLOF Input Normally Open? Allows the user to specify the (normal operation) state of the switches connected at the All Hall Call Locks Off (HLOF) input. Set to Yes if normally open. Set to No if normally closed. Future release.
- Lockout Car Calls with Alt Riser? If set to yes, and the dispatcher has an alternate riser, the dispatcher will lock out the car calls corresponding to hall calls that are not valid for the selected riser. Future release.
- Auto Car Call Locks By Time: All car calls (except for the lobby call) on all cars will lock and unlock automatically at these set times. Locks may be set for: Monday to Friday, Saturday Only, or Sunday Only. Enter times in 24-hour (military) format. Future release.



System Performance

This menu allows you to set performance curve selection timers, backup dispatching, and cross cancellation/cross registration parameters.

Figure 19. System Performance Menu



• Energy Conserv Status Based On Time and Day: These timers allow you to set as many as four time periods a day during which the dispatcher will command High Performance or Energy Conservation speed/curve assignment to group cars, as set. The default is 0=high performance (Motion 4000 normal operating curve). A setting of 1 = Energy Conservation selects the Motion 4000 Alternate operating curve and Backup Power speed. For the timers to be effective, dispatcher EC (Energy Conservation) and HP (High Performance) inputs must be off. To use a timer:

- Set On and Off times in 24-hour (military) format.
- Set the desired performance curve (0=high performance, 1=energy conservation).
- Select the days of the week during which this timer should be active by selecting a Y or an N under each day.

Figure 20. Operating Curves



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- Hall Call Long Wait Time Before Switching to High Perform:
- Set to the number of seconds a hall call may be registered before the dispatcher switches a car from energy conservation to high performance operation to respond to the call. Default is 120 seconds. Range is from 0 to 999 seconds.

Note

1

Hall Call Long Wait Time Before Switching to High Perform takes effect only if EC (Energy Conserve) and HP (High Performance) inputs are OFF, no manually set EC or HP timers are active, and cars are set to change curves dynamically (as demanded by the dispatcher).

• Does This Dispatcher Have a Backup?

Set to Yes if this dispatcher is the primary dispatcher and there is a backup/redundant dispatcher for it.

Set to No if there is no backup dispatcher for this dispatcher.

• Is This Dispatcher the Backup? Set to Yes if this dispatcher is the backup/redundant dispatcher for a primary dispatcher. Set to No if this dispatcher is not a backup/redundant dispatcher.

Note

The two preceding backup parameters enable the communicating inputs and outputs between primary and backup dispatchers so that they monitor and/or transmit over the expected paths when control is transferred from one to the other.

• Main Disp Failure Time-out (0.1 sec):

Set to the amount of time the backup dispatcher should wait before taking over car dispatching after losing communication with the primary dispatcher. The default is 5.0 seconds (setting value 50). Range is from 20 (2 seconds) to 150 (15 seconds).

- Cross Cancel Time (0.1 sec): (Future release.)
 - ON: Controls the time on (duration) for the cross cancellation signal. Set in 1/10 second increments. Default is 10 (1 second). Range is 1 (1/10 second) to 20 (2 seconds).
 - OFF: Controls the time off (duration) for the cross cancellation signal. Set in 1/10 second increments. Default is 10 (1 second). Range is 1 (1/10 second) to 40 (4 seconds).
- Cross Registration ETA Threshold (sec): If Cross Registration is enabled, and the time it would take a Motion car to respond to an active hall call exceeds this setting, the call will be assigned to the legacy controller. The default setting is 25 seconds. Range is from 0 to 240 seconds.
- Cross Registration Output On Time (0.1 sec): Sets the on time for the signal transferring a call from the Motion dispatcher to a legacy controller in 1/10 second increments. Default is 15 (1.5 seconds). Range is 1 (1/10 second) to 40 (4 seconds).
- Maximum Car Speed (FPM): When Cross Registration is active, set to the contract speed of the legacy cars. The Motion group uses this information in deciding whether or not to transfer a call to the legacy system. Minimum: 50. Maximum: 1200. Default 1200.
- With Alternate Elig. Maps, Cross Latch Auxiliary Riser During Normal Mode:
 - YES: When the ALT input is not active (normal mode), Auxiliary riser hall calls will function as Main riser hall calls.
 - NO: When the ALT input is not active, Auxiliary riser hall calls behave according to their normal eligibility map. See page 16.



Parking Modes

This menu allows you to set parking parameters for group cars.

Figure 21. Parking Modes Menu

DYNAMIC SECT PARKING DELA PARK AT FULL USER DEFINED FLR CAR TIME 00 00 00 00 00 00 00 00	<back ix<="" menu="" td=""> OR PARKING: Y TIMER (SEC): Y LOCKED FLOORS? PARK FLOORS (0 = LAST F RS HR:MN N 00:00 OFF ON 00:00 OFF ON 00:00 OFF ON 00:00 ON 00:00 OFF ON 00:00</back>	IEXT > N 030 N ELR)
LOBBY PARKIN CARS: GROUP 1: GROUP 2: CARS TO LOBB CARS TO LOBB CARS TO LOBB DOOR OPEN TI (99=KEEP DOOR OPEN TI	G: 1 2 3 4 5 6 7 8 N N N Y ON BAL: GP1: 03 GP2 Y ON UP PK: GP1: 01 GP2 Y ON UP PK: GP1: 00 GP2 Y ON DN PK: GP1: 00 GP2 ME AT LOBBY (SEC): OPEN, 00=KEEP CLOSED) ME LOBBY AFTER CAR CALL	2: 00 2: 00 2: 00 10 05
0 1 2 3	4 5 6 7 8 9 F	TRGT

• Dynamic Sector Parking:

When set to Yes, the dispatcher will optimize parking decisions in real time, taking into consideration current building traffic conditions, and using user defined parking floors and lobby parking settings. This mode allows the system more latitude than traditional Zone parking which forces parking assignment in user-defined floor sets (zones). Timer settings are not used.

- Parking Delay Timer (sec): Determines how long an idle car should wait at the last served floor before moving to its parking floor.
- Park at Fully Locked Floors? Set to Yes if cars should park at an assigned floor even if that floor is currently fully locked (no front/rear car calls and no front/rear hall calls allowed without appropriate security input).
- User Defined Park Floors (0 = Last Floor)

Allows a priority parking floor to be set, on a timed basis, for each car in the group.

- If Floor is set to zero, the car will park at the last served floor unless lobby or zone parking assignments are in effect.
- If Car is set to zero, the first available car will park at the floor.



Lobby parking assignments will override Priority parking assignments. Priority parking assignments will override A.I. Zone parking assignments. Use Priority parking assignments sparingly. Forcing cars to park at specific floors can have a negative impact on overall traffic efficiency in the building.

- Lobby Parking:
 - Cars: Lists cars in the group.
 - Group 1 / Group 2: For purposes of lobby parking, you can split the group into two different groups for lobby coverage. If the group is split, you can have two "this car up" cars. This is useful if you wish to assign a specific car as the Lobby car or if the group has two types of service (high and low rise for example) and you want one car from each group to park in the Lobby.

Enter a Y for each car you want to place in a group and an N for cars not to be placed in that group.

If you do not want to split the group, put all cars in Group 1 (all Y's) and no cars in Group 2 (all N's).

- Cars to Lobby on Balanced/Up Peak/Down Peak: These three choices allow you to assign a number of cars from each "group" to the Lobby floor during balanced, up peak, or down peak operating modes.
- Door Open Time at Lobby (sec):

When a lobby-parked car is assigned This Car Up status, it will open its doors for the period of time set here (from 1 to 98 seconds). If set to 99, doors will remain open until the car is preparing to leave the lobby. If set to 00, doors will remain closed until a lobby call button is pressed.

• Door Open Time Lobby After Car Call: This setting allows the Door Open Time at Lobby time to be truncated if a car call is entered or the car is otherwise assigned, allowing the doors to close and the car to leave the lobby. Time entry is in seconds (1 to 99); default is 5 seconds.

Note

To park at the lobby floor with the doors closed, select user-defined parking.

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A.I. Lobby Parking/Zoning

This menu allows dispatching system artificial intelligence to assign parking and zoning depending upon current traffic conditions in the building, rather than arbitrarily or by timer. User settings on the Parking Configuration menu are generally overridden.

Figure 22. A.I. Lobby Parking/Zoning Menu



- Enable A.I. Lobby Parking/Zoning? If set to Y, the dispatcher will use artificial intelligence to dynamically control lobby parking and zone parking features.
- A.I. Status:

After operating and collecting data for 24 hours, the A.I. status display will be populated with data. The data helps you to verify lobby parking and zoning operations. These are status displays, not user-enterable parameters.

Emergency Power Configuration

This menu allows you to set group behavior during emergency power operation. Depending upon specific system inputs and outputs, one of two screens may be displayed. If the dispatcher is Stand Alone (all cars in the group are supplied by the same emergency power source), you will see this screen. If the cars in the group are supplied with power from multiple feeders (and also in some cases of multi-bank emergency power operation when a full range of options must be available), you will see the second, Split, emergency power screen.

Figure 23. Emergency Power Configuration Menu



- Emergency Power: Setting is read-only. Value from Group Definition screen (page 14).
 - Stand Alone: Emergency power for group cars is independent of other groups or elevators in the building. (Example: one emergency generator provides power to this elevator group only.)
 - Master: This dispatcher will initiate the emergency power return sequence and will have preference to go back to service on emergency power Phase 2.
 - Slave: This dispatcher will return on emergency power Phase 1 after the other simplex or group has finished its return. This dispatcher will not have preference to go back to service on emergency power Phase 2.
 - Split: See Split Emergency Power Configuration on page 39.
- Recall Att/Ind Cars Em Pwr Ph 1?

Applies only to cars on Attendant or Independent service at a floor with their doors open when the Emergency Power signal is activated. If the door is not open, the car will obey a Phase 1 recall to the recall floor. If you wish to bring cars on Attendant or Independent service down to the recall floor in all situations, set this to Y. If set to Y, the door will close and the car will be returned to the recall floor in the order assigned. If set to N, the car will not return. If the car is selected to run on Phase 2 emergency power, it will return to service from the present floor.



• Em Pwr: Amt Cars Manual Select:

When the manual Phase 2 (run on emergency power) input is active, this parameter sets the number of cars from each group that are allowed to run (when multiple manual select inputs are activated). (As with lobby parking, the group of cars controlled by this dispatcher may be separated into two "groups" for emergency power assignments.)

• Phase 1 Car Time-out (sec):

Enter the time in seconds that the dispatcher should attempt to call/return a non-responsive car on Phase 1 recall before moving on to the next car. After completing recall, the dispatcher will once again return to non-responsive cars and attempt recall. If the car again fails to respond, the dispatcher will report it Out of Service.

- Em Pwr Phase 2 Auto Select Priority: For each priority group, enter the car numbers in the order in which they should be selected to run on Emergency Power Phase 2. If you are not separating into priority groups, enter the car numbers in run order in Gen 1 and leave Gen 2 set to all zeros.
- Amount Cars: Gen 1: Gen 2: For each priority group, enter the maximum number of cars that should be run when automatic Phase 2 (run on emergency power) is active.
- Add No. Cars Gen 1 to Gen 2 if Gen 1 Cars Can't Return? If Gen 1 cars are unable to return, should the number of Gen 1 cars selected to run on emergency power be added to those selected to run from Gen 2?
- Phase 2 Emergency Power Return to Service Att/Ind Cars After Auto Cars? If set to Y, cars on ATS/IND have lower priority than passenger cars for selection to run. If set to N, prior operating mode will not be considered when placing cars on Phase 2 service.
- Interdisp Em Pwr Times PH1: PH2:
 - PH1: Setting this parameter on Group A tied to Group B or to a simplex car for emergency power purposes will adjust the amount of time in minutes to be given Group B or the simplex to complete its emergency power return Phase 1 before allowing the emergency power Phase 2 on Group A. This parameter only affects groups set up as Master for emergency power purposes. Minimum: 0. Maximum: 20. Default: 1.
 - PH2: If Group A is tied to Group B for emergency power purposes and none of the Group A cars are able to go on emergency power Phase 2, this parameter adjusts the amount of time (in seconds) to be give Group B to go on emergency power Phase 2 before Group A retries placing one of its cars on emergency power Phase 2. This parameter only affects groups set up as Master for emergency power purposes. Minimum: 0. Maximum: 99. Default: 60.
- Phase 1 Recall Order (Enter Car # 1 8): For each car in PH 1 Order, enter the order in which it should recall. For example, if car 6 should recall first, enter a 01 for it, a 02 for the next car, etc. All entries must be two digits. This sequence will be bypassed when some of the cars are on emergency status (i.e., medical or Fire Phase 2). If an invalid car number is entered, the default order will be used (Car 1 is first, Car 2 second, etc.).
- Max Number of Cars to Run on Phase 1: Sets the maximum number of cars that may be run on Phase 1 (recall) simultaneously. The default is one. This must be determined by the capacity of the emergency power source.
- EPI Switch Normally Open? When set to Y, the dispatcher will be on emergency power when the EPI input is HIGH. When set to N, the dispatcher will be on emergency power when the EPI input is LOW.

Split Emergency Power Configuration

Split emergency power configuration is not supported in current release software.

This menu allows you to set group behavior during emergency power operation. Depending upon specific system inputs and outputs, one of two screens may be displayed. If the dispatcher is Stand Alone (all cars in the group are supplied by the same emergency power source), you will see the Stand Alone screen. If the cars in the group are supplied with power from multiple feeders (and also in some cases of multi-bank emergency power operation when a full range of options must be available), you will see the second, Split, emergency power screen.

Figure 24. Split Emergency Power Configuration Menu



- Emergency Power: Split. Read-only. Value from Group Definition screen (page 14).
- Phase 1 Recall Order, Auto Phase 2 Selection Order (Enter Car Number 1-8): These parameters allow you to enter the order in which cars should be recalled during Phase 1 and the order in which cars should be selected to run in Phase 2.
- Car Feeder and Auto PH2 Grp Assignment: For each car in the group, assign the feeder (generator), A or B. For each car in the group, assign Phase 2 group (1 or 2) priority.
- Max Number Cars This Dispatcher to Run:
 - Phase 1: How many cars can be returned to the recall floor simultaneously?
 - Phase 2: How many cars can be run on emergency/generator power simultaneously?
 - Feeder A: How many cars can be run on emergency feeder A?
 - Feeder B: How many cars can be run on emergency feeder B?
- Auto PH2 Gen 1: / Gen 2: When Phase 2 (run on emergency power) is active, how many cars should be run from each generator?
- Add Number of Gen 1 Cars to Gen 2 when Gen 1 Cars Can't return? If Gen 1 cars are unable to return should the number of Gen 1 cars selected to run (but now unavailable) be added to Gen 2? Set to Yes or No.



• Phase 1 Car Timeout:

Enter the time in seconds that the dispatcher should attempt to call/return a non-responsive car on Phase 1 recall before moving on to the next car. After completing recall, the dispatcher will once again return to non-responsive cars and attempt recall. If a car again fails to respond, it will be reported out of service.

• Recall Att/Ind Cars on Phase 1?

This only applies to cars that are on attendant or independent at a floor with their doors open when the Emergency Power signal is activated. If the door is not open, the car will do a Phase 1 recall to the recall floor. If you wish to bring cars on attendant or independent down for an Emergency Power Phase 1 Recall in all situations, set this to "Yes". If you set this to "Yes" the door will close and the car will be brought to the recall floor in the order assigned. If set to "No" the car will not return. If the car is selected to run on phase 2, it will return to service from the present floor. This parameter should be set to match the parameter in the car parameter menu.

- Place Att/Ind Cars on Phase 2 After Automatic Cars? If set to Yes, cars on Attendant or Independent operation when recalled during Phase 1 will be held at the recall floor and not released to Phase 2 service until after those cars returned from automatic passenger service. If set to N, prior operating mode will not be considered when placing cars on Phase 2 service.
- EPIA/EPIB Switches Normally Open? If set to Yes, the dispatcher will be on emergency power when the EPI input is low. If set to No, the dispatcher will be on emergency power when the EPI input is high (default).
- Total Num of Banks:

Used only on groups when the group is set up for multi-bank / split feeder Emergency Power operation. This parameter should be set to the total number of banks that will share the Emergency Power buses. It affects bus selection timing. Minimum: 1. Maximum: 10. Default: 1.

• This Bank Num:

Used only on groups when the group is set up for multi-bank / split feeder Emergency Power operation. This parameter is used to identify which number bank this car is in. Each dispatcher or simplex car tied to the same Emergency Power generator(s) must have a unique number. This parameter affects bus selection timing and so will also control the order banks put cars on automatic Phase 2 service.

Call Locks: Front Riser Per Car

Future release. On a per car/per riser basis, these menus allow you to:

- Lock hall call service for a specific landing/direction.
- Lock car panel call registration to a specific landing.

Figure 25. Front Riser Lock Enable

LOCK SCREEN FL UDC 1 YNY 2 YYY 3 YYY 4 YYY 5 YYY 6 YYY 7 YYY 8 YYY 9 YYY 10 YYY 11 YYY 12 NYY 12 NYY 13 NNN 14 NNN 15 NNN	CAR	A	FRONT
UDC - MAIN R	I SER	5 6	

- U: Up direction call
- D: Down direction call
- C: Car call to opening
- Y = Locked
- N = Not locked

Note

These settings will not override a hall call lock placed by a physical lock switch at that station. If a hardware override is desired, it is provided through a key switch located (typically) at a security station.



Call Locks: Rear Riser Per Car

Future release. On a per car/per riser basis, these menus allow you to:

- Lock hall call service for a specific landing/direction.
- Lock car panel call registration to a specific landing.

Figure 26. Rear Riser Lock Enable

LOCK SCREEN FL UDC 1 NNN 2 NNN 3 NNN 4 NNN 5 NNN 6 NNN 7 NNN 8 NNN 9 NNN 10 NNN 11 NNN 12 NNN 13 NNN 13 NNN 15 NNN	CAR A	A REAR	
UDC - MAIN RI	SER	 	XT>
0 1 2 3	4 5		RGT

- U: Up direction call
- D: Down direction call
- C: Car call to opening
- Y = Locked
- N = Not locked

Note

These settings will not override a hall call lock placed by a physical lock switch at that station. If a hardware override is desired, it is provided through a key switch located (typically) at a security station.

Change/Disable Password

This screen allows you to set password protection such that the correct password must be entered before parameters may be changed.



MENU	
PARAMETER PASSWORD PROTECTION ENABLED? N CHANGE PASSWORD	
	This message is for MCE development staff instruction only.
INTERNAL USE ONLY - DO NOT SET 001	
0 1 2 3 4 5 6 7 8 9 LFT RGT	

A password protects all parameters from being changed unless the correct password is first entered.

- Parameter Password Protection Enabled:
 - Yes = password entry required to change parameters.
 - No = (default) password entry not required to change parameters.
- Change Password:
 - If selected, accesses a screen on which a password may be selected.



Write Parameters to EEPROM

When a job configuration or job parameter is changed, you will be prompted to write that change into long term memory (system EEPROM) when you navigate past that parameter.

1. On the menu selection screen, select Write Parameters to EEPROM.

Figure 28. Write Parameters to EEPROM Menu

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	- - -	R I E I E I			I R	N J J	000	T B B	0	C P	D O A	I N R	S F A	P I I M	A G E	T U T	C R E	H A R	E T S	R I	0	S N	с	R	EE	ΕI	N								
	-	M (C (S)	C F D M E F	N N T R I	S R A	0 0 L	F	T L C	W E A	A R N	R	E C C	A 0	V N M	E M	R C	S 0	I M D	0 M I	N Á	G	D D N	I I O	S A S	PI GI TI			/ 5 T 5	Ī	С	S				
	-	CI WI	H A F	A N I T R E	E	E Y	P 0	/ A U	R -	D A S Y	I M U E	S E R S	A T E -	B	L R Y	E S O	U	P T	A 0 W -	S A N	S E N O	W E T -	0 P	R R T	D 10 0	1	S A	4 V	'E	?					
		1-		_	_		_	_			. –			1.5			_	_			. –			1.5			76			1		_			
L	0		1			2			3			4			!	5			6			7	,		8	3		ę)		.F	Т	R	GТ	J

- 2. The message "Are you sure you want to save?" will be displayed, select Yes to proceed.
- 3. You may be prompted to reset the group processor board. To do this, press the RST2A button.

There will be a period of seconds during which the system is saving parameters. When parameters have been successfully saved, the main status screen for the group will be displayed.

Copy Parameters To/From SD

This selection allows you to use an SD card to copy parameters from one dispatcher to another or to use an SD card as a repository for backup parameter storage. Selecting Copy Parameters To/From SD brings up the Parameter Management screen allowing you to:

- Backup Parameters to SD Card Writes parameters currently in EEPROM to the SD card.
- Restore Parameters From SD Card Writes parameters currently on the SD card to the system EEPROM.
- Restore to Factory Configuration Restores group settings to last saved factory configuration
- Save Parameters as Factory Configuration Allows you to overwrite last saved factory configuration with current settings

Selecting any of the above will display a screen providing a final OK/CANCEL opportunity.

Note

After restoring parameters from the SD card, it is necessary to Write Parameters to EEPROM and then press the RST2A button to fully implement and retain the parameter changes.

Figure 29. Parameter Management

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SD Card Process

If you are backing up to or restoring from an SD Card:



- 1. Use your finger tip to gently slide the micro SD slot cover to the right. It will slide about 1/4-inch. Lift your finger and open the cover.
- 2. Insert the SD card into the slot in the hinged cover, notch on top and exposed contacts facing the circuit board.
- 3. Use your finger tip to close the cover and gently slide it to the left. It will lock into place.
- 4. Select desired Parameter Management process.
- 5. Follow on-screen instructions.
- 6. If you have chosen to restore parameters from the SD card, complete that process, then:
 - Use the Write Parameters to EEPROM command
 - Press the RST2A button to complete storage to non-volatile memory.

MCP Software Version Display

This selection allows you to display the version of the software installed on dispatcher components.

Figure 30. MCP Software Version Display

MCD BOARD SOFTWARE VERSIONS.	
HEF BOARD SOFTWARE VERSIONS.	
	BOOT
DISPATCHER = 0001.01	00.01 XX XX
DISPLAY = 0001.00	01.00
ST = UNUSED	
SERIAL BOARDS:	
UIO # 00 = 0009.07 3HN #000 ID#0 = XXXX XX	02.00 XX XX
CHP = 0011.05	04.03
	MENU>
	9 LFIRGI

- Dispatcher: Software version for dispatcher processor board and software version of boot loader routine.
- Monitor: Software version for real time monitoring software resident on dispatcher and software version of boot loader routine.
- Display: Software version for LCD display and software version of boot loader routine.
- ST: Unused in this release.
- Serial Boards -
 - UIO #00: Version of software running on HC-UIO boards (by set board address).
 - 3HN #000: Version of software running on HC-3HN boards in hall calls (by set board address and ID [riser #]). Rear node board addresses start at 129 for floor 1. Please refer to "Riser Assignment" on page 59.
 - CHP: Version of software running on HC-CHP (CAN hub) board.
- To select a board to view software version:
 - Use Left/Right buttons to navigate to the UIO or 3HN board address field.
 - Use numeric buttons to set the address/ID of the board you want to view.

Note

For further 3HN board information, please refer to SC-3HN Three Input Serial Hall Call Node Board on page 57. For UIO board information, refer to Section 5 of the Motion 4000 Controller manual.

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Controller CAN Communication Diagnostics

This screen is an aid to diagnosing problems in CAN communication between the dispatcher and a particular car. The car's sent and received messages are displayed here.

Figure 31. Controller CAN Communication Diagnostics

CAN DISPATCHER - CONTROLLER MSGS
TO CAR A FROM CAR A MSG ID 00 MSG ID 00
48 00 00 00 04 32 32 13 30 30
CAN MSG ID: 0X0000
DATA: XX XX XX XX XX XX XX XX
■ M E N U >
0 1 2 3 4 5 6 7 8 9 LFT RGT

Note

This screen is primarily intended for software verification at MCE. If you have an operational issue that Technical Support determines warrants this level of attention to communications protocol, they will bring a software engineer into the support call.

Serial CAN Comm. Diagnostics

This screen allows you to inventory and test serial hall call node boards. (Supported by group software version 3.xx and newer only.)



CAN DISPATCHER - SERIAL BUS MSGS FLOOR ID = 01 SIDE: FRONT	- Data to that FLOOR/SIDE locatio
TO SERIAL BUS: 00 00 00 00 00 00 RESULTS: RISER ID: #0: 00 00 00 #1: 00 00 00 #1: 00 00 00 #0: 00 00 H :: 00 00	Data from node per riser ID
#2:00000 + G000 #3:00000 - MSNG #4:000000 #5:00000 #6:00000 #7:000000 #7:000000	
<inventory> <test> <menu> 0 1 2 3 4 5 6 7 8 9 FT RGT</menu></test></inventory>	Riser IDs

- 1. Select a Floor ID and a car door location (SIDE = FRONT/REAR).
- 2. Select an operation to perform (INVENTORY or TEST [test should be run only after an inventory has been performed]).
 - INVENTORY RESULTS: If you perform an inventory, the system sends a message to and reads results from each board set to the selected FLOOR ID/SIDE on each of the 8 (#0 #7) RISER IDs. In the RESULTS INV column, a + indicates a board is present while a indicates no board present on the associated riser. After performing an Inventory, be sure to save the Parameters (Write to EEPROM) so they can be compared to test results in the future.
 - TEST RESULTS: If you perform a test, the system sends a message to and reads results from each board set to the selected FLOOR ID/SIDE on each of the 8 (#0 #7) RISER IDs. In the RESULTS TEST column:
 - GOOD indicates a board that was included in the inventory reported with no errors.
 - NEW indicates a board replied that was not part of the Inventory.
 - MSNG indicates a board that was part of the Inventory failed to respond.
 - IN 1/2/3: A board that was part of the inventory detected the specified input failed.
 - OUT 1/2/3: A board that was part of the inventory detected the specified output failed.

Note

Risers IDs 7 through 4are Main risers. Riser IDs 3 - 0 are Auxiliary risers. Please refer to "Riser Assignment" on page 59.



Switch to Monitoring

MCE iReport and iMonitor applications may be used to monitor Motion group controls and individual controllers. If so, the interface is configured through these menus.

Figure 33. MCE Monitoring Main Menu



- From this menu:
- Press any # to enter dispatcher view
- Press RGT to enter setup screens

Viewing

If you press any "number" button in the above screen, the dispatcher view screen will be displayed.

Figure 34. View Dispatcher

VIEW DISPATCHER? LFT:NO 0:YES	
0 1 2 3 4 5 6 7 8 9	FT RGT

From this menu:

- Press LFT to return to the previous menu
- Press 0 to return to the main dispatcher viewing screen. Please refer to "Dispatcher Screen" on page 9.

Configuration

If you press RGT on the MCE Monitoring, Main Menu screen, you enter a series of screens that allow you to set up the dispatcher to be monitored by iReport or iMonitor applications. The first of these screens displays the version of the monitoring software currently on the dispatcher.

Figure 35. Monitoring Version

Continue pressing the RGT button to access remaining configuration screens.



Figure 36. MAC Address

MAC ADDRESS:
0 0 2 0 4 R - 7 2 5 3 B B
0 1 2 3 4 5 6 7 8 9 LFT RGT

The MAC address is a unique, hardware address for the dispatcher.

Figure 37. IP Address

IP ADDRESS: 010.010.010.057
0 1 2 3 4 5 6 7 8 9 LFT RGT

Sets the IP address for the dispatcher. See the iReport or iMonitor manual for information about setting the address.

Figure 38. Subnet Mask

255.255.000.000

Sets the subnet mask for the dispatcher. See the iReport or iMonitor manual for information about setting this.

Figure 39. Gateway Address

GATEWAY ADDRESS: 010.010.254.254	
	5 6 7 8 9 LFT RGT

Sets the gateway address for the dispatcher. See the iReport or iMonitor manual for information about setting this.





CONN 1 2 3 4 5 6 C * * * * *	Displays the number of iReport or iMonitor connections currently active on this dis- patcher, by type: M = iMonitor R = iReport C = Other connection
0 1 2 3 4 5 6 7 8 9 FT RGT	

Figure 41. Cars and Floors



Displays the number of cars and floors served by this dispatcher (for use by the monitoring application).

The second line provides car to group connection status (in ascending order): N = Not connected

C = Connected

Figure 42. Communication Status, RQ TQ



Monitors the current number of receive and transmit messages in the CAN monitoring queue, the peak number of messages in that queue, and the maximum acceptable number of messages in each queue. Used to help diagnose communication problems.

Figure 43. Communication Error Reporting



Displays those data points being checked for change. Used to help diagnose communication problems. S = Status messages P = Parameters

M = Monitors



Figure 44. Device Data

DEVICE DATA: 0000 = 6	Display lar reg nicatio
	To sele to disp tons to
0 1 2 3 4 5 6 7 8 9 FT RGT	

Displays the current data bytes in a particular register. Used to help diagnose communication problems.

To select display, press any numeric button to display a cursor, then use numeric buttons to enter an address.

Figure 45. iReport Status



SC-3HN Three Input Serial Hall Call Node Board

The SC-3HN board is used to provide serial hall calls for Motion controllers. The SC-3HN provides analog inputs and outputs for the hall call buttons and LEDs and a CAN connection to the Motion group (version 3.xx and newer software only). Refer to the drawings package for connection instructions to your fixtures.



Figure 46. SC-3HN Three Input Serial Hall Call Node Board

Call Bus Conditions

In the dispatcher, the serial hall call CAN Bus originates on connectors J16 and/or J17 on the HC-CHP board. The two are electrically identical. If more than two physical connection points are required, a CAN Bus may be paralleled through the Panel Mount Terminal (PMT) strip. Refer to the drawings for the particular job.

- Eight risers are supported; four Main and four Auxiliary.
- Each hoistway wire drop consists of a twisted pair for signals and one wire each for 24V power and common. A wire drop can support more than one riser.
- Settings on each SC-3HN board determine which riser it belongs to, its floor address, and whether it is associated with the Front or Rear car entry.
- SC-3HN boards with the same floor address and entry association will register the same call and light indicators. Each must have a different riser ID but within the same riser group (Main or Auxiliary).
- Main risers A D use riser IDs 7 4. Auxiliary risers A D use riser IDs 3 0.

General Installation

All SC-3HN connections are at one end of the board. One board is installed in each hall call panel electrical box. The board is shipped in an anti-static bag.

- 1. Make connections to the hall call buttons and indicators. (See following page.)
- 2. Make connections to the signal/power drop. (See following page.)
- 3. Set floor number and door (F/R) location, page 59.
- 4. Set riser assignment, page 59.
- 5. Last board on wire drop only: Place a jumper on JP5. All other boards: Ensure jumper NOT placed across JP5 pins, page 59.
- 6. Insert board in anti-static sleeves and tape closed using supplied ESD sticker.
- 7. Tuck bag/board into electrical box and re-install hall call.

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Figure 47. Hall Call Node Wiring



Table 7. Hall Wiring Colors

Color	Signal
red	+24V
black	common
brown	CAN H
yellow	CAN L
orange	UL+
blue	UL-
violet	DL+
green	DL-
gray	SP+
white	SP-

Addressing and CAN Bus Termination

Set SC-3HN addresses as shown in the job prints for the installation. Generic examples are provided below.

Riser Assignment

1 There are four Main risers and four Auxiliary risers. Jumper locations JP3, JP2, and JP1 are used to assign the appropriate riser to the SC-3HN board. In the following table, a "1" indicates a jumper in place.

JP3	JP2	JP1	Riser
1	1	1	Main A (Binary value 7)
1	1	0	Main B (Binary value 6)
1	0	1	Main C (Binary value 5)
1	0	0	Main D (Binary value 4)
0	1	1	Auxiliary A (Binary value 3)
0	1	0	Auxiliary B (Binary value 2)
0	0	1	Auxiliary C (Binary value 1)
0	0	0	Auxiliary D (Binary value 0)

Table 8. **Riser Assignment by Jumper Binary Representation**

Floor Number and Front or Rear Opening

DIP switch SW1, switches 1 through 7 set the floor address for the board, beginning with Floor 1. Switch 8 selects Front or Rear opening.



When setting addresses, use the values silkscreened on the circuit board, not those shown on the DIP switch.

ON switch adds its value to floor address.

Baud Rate

Jumper JP4 is reserved for future use to select a different CAN Bus baud rate should it become necessary. For now, the only option is to leave the JP4 jumper in place, setting baud rate to 125 kbps.

CAN Bus Termination

The CAN Bus must be terminated ONLY ON THE LAST SC-3HN connected to the wire drop (farthest board from Dispatcher).





Last board on wire drop ONLY.



On Board Diagnostics

Two LEDs provide diagnostic information: The ON LED (green) and the FLT LED (red).

ON LED

The ON LED reflects power/communications status.

- ON: Group communications OK
- OFF: Board is not receiving power or has no software loaded.
- Blinking: Communications error more than ten seconds have passed without a message from the group dispatcher.

(FLT) FAULT LED

The FLT LED reflects the status of the analog outputs.

- ON steady: Internal fault -
 - Replace board if problem persists
- OFF: No Errors detected.
- Blinking: Output overload or disconnection. Pressing the Reset button on the SC-3HN board will clear a blinking Fault LED.
 - Overload: Excessive current draw. Resets when current draw is corrected and call button is pressed again.
 - Not Connected: The output is on (button pressed) but nothing is connected to the ULor DL- output. Resets when the lamp is connected and the call button is pressed again.
 - Output Shorted: If short is very quick, the LED will flash. Pressing the call button for a few moments will cause the board to reboot. Resets when the short is removed and the call button is pressed again.

Group Settings Record

Use this table to record your group settings.

1.1.11							oup	Pala	ame	ler S	eun	ys							
Job#						Job	Name): 							Dete				
Prod Order#						les	t techr	nician:							Date):)			
						-	J!4 1	0	f !										
D (1					E	alt J		ontig	jurati	on								
Parameter			De	scrip	tion								MCE	settin	ıg				
Name Total cars	Tho num	oor of	care co	- nnocto	d to Gr	0110									•				
Car Name	Desired la	abel fo	r each	car		oup			Ą	В	С		D	E		F	G		Н
Lobby Floor	Designate	ed Floo	or to be	e serve	d as lob	by floor	r per ca	r											
Floor amount	The # of f	loors p	per car																
Door Open	Door Ope F=front of	ening fo nly, B=	or eacł =front a	h car. F and rea	Program r	as belo	w												
Medical Plus Special Calls Amount	The # of I	Hall Ca	alls deo	dicated	for Spe	ecial Sei	rvice						(00					
Emergency Power	configura operation Stand ald based on current di Split: En generator for the cu Master: E emergeno Master. E Slave: Er to Master to the Master	during during one: E gener spatch nergen rrent d Emerge cy pow merger , Mast ster Die	aring the gring the lo merger rator 1, ner is in nerator lispatcl ency Po ver, the ency Po rer Disp ispatch	e loss poss of c ncy Po the cu ndepen wer is c c 2 or b her is ir power is curren ower is c potcher power is co potcher her. Em	ver is common ommerce wer is corriguted adent fro configure oth, the ndepend configure t dispat r the cu configure . During vergence	ingency nercial pow onfigure spatche mother ed for (2 current dent frou ured for cher wi rrent dis red for a g the ev y Power	power I power I ed for (1 r will co r groups 2) Power dispatc m other Multiple II contro spatche a genera ent of e r for the	n additi ergency) powe ntrol all s. r Gene cher will groups e Group l the se r is bas ator that emerger current	rators. con, the power r gener seque rators. contro s with equence ed on t t is con ncy pow t dispat	ator. During the ator. During the ator. During the l all sequed different e of opera he conner trolled by ver, the c cher is de	I param ing the eration e event ence of generat ation for ected gr a Disp current c efine as	event Event Event of em operator. Du reach oups. atcher dispatces one o	ill define of emergency P ergency P tion. Err ring the group co with em her will f the gro	event opperate opperate opperate opperate opperate	operation of the second	of on er r set Jing d to			
Legacy Group Interface	Determin None: If Cross Ca Cross Re	ed if th group ancella egistra	ne Disp desigr ation: I ation: I	oatcher n has n Legacy MCE G	will inte o Cross Dispate roup re	rface w -Reg or cher ma ceives a	ith lega Cross- anages l and mar	cy conti Cancel nall call nages h	roller or dispate all call	Legacy ching. dispatchi	dispatc	her wil ed on (l interfac	ce with	controll	er			
Enable Annunciator Lights?	This featu	ure is r	not ava	iilable y	vet.														
Display Security Access Code Page	Yes: Disp No: Don't	lay se displa	curity A ay secu	Access urity Ac	Code N cess Co	/lenu ode Mer	าน												
Display I/O Manual Override Menus	Yes: Disp No: Don't	lay I/C displa) Manu ay I/O N	ial Ove Vanual	rride Me Overrid	enus le Menu	IS												
Title	Type job	Name																	
	This Men 00 to 31 a Auxiliary EI = Eloor	u allow are us Calls	vs you ed for . If Ha HI =P	to conf these II Lock	igure el calls. I/ cout el	evator s O's sec igibility	service f quence r is prog	to matc start w gramm	h the flo vith sta ed theo r	oors and ndard h h Hall Lo	opening all calls ck out	gs (fro s (fron inputs	nt/rear) f t and re s start w	to be se ar), Me vith UIC	erved. H edical/C D addre	IC-UIO Code bl	board a ue calls	address then	ses
		1	. <u> </u>	C	ar#	Ca	ar#	Ca	ar#	Ca	r#	C	ar#	C	ar#	C	ar#	Ca	ır#
	FL		1L .		Α	E	В	(C	D			E		F		G	I	1
		F	R	F	R	F	Ŕ	F	R	F	R	F	R	F	R	F	R	F	R
Floor Eligibility/																			
Hall Lock																			
Config. for Main Riser			1																
during Normal	L																		
Mode		<u> </u>																	
		-																	
	<u> </u>																		
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M Group Parameter Settings

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				I	M Gr	oup	Para	ame	ter S	ettir	igs				
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nis Me r thes	nu allov e calls	ws you . I/O's	to con seque	figure e nce sta	levator s	service standa	to matc rd hall	h the Au calls (fr	uxiliary ont an	calls to d rear),	be ser	ved. HC al/Code	-UIO b blue c	oard ac alls the	ld n

				0	ar#		ar#		∟–⊢∩ysi ar#		an IOCK 2 ar#		ar#	C C	ar#	0	ar#	0	ar#
	FI			0	ΔI# Δ	0	ai # R	0	ai# C		ai# D	U U	ai# F	0		0	ai# G	0.	H
				F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R
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Fligibility MAD																		-	-
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Main Riser																		+	
during Alternate																		-	
Mode																			
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	·																		
	This scree	en is u	used to	configu	ure the	inputs a	as per c	ontrolle	r design	HC-U	IO boai	'd addı	esses	32 to 63	3 (exce	ot 37-44	I) are u	sed for	r
	these inp	outs.	Whene	ever ad	ldress	32-63 is	select	ted, the	n softw	are au	tomatic	ally co	onfigure	e first 8	termin	als (I/C) 1-8) fo	or input	ts and
	other 8 te	ermina	als (I/C	D 9-16)	for out	tputs. If	Hall Lo	ock out	eligibil	ity is p	rogram	med th	nen Hal	I call L	ock out	inputs	start v	vith UIC)
	address	32 the	en follo	ow by s	standa	rd input	s.	1							-				
	Name	e		Y/N		Nan	ne		Y/N		Name	•	<u> </u>	(/N		Name		Y/I	N
	REC	;				RUN	H	1	N/A		PII								
	ARE	3				FBY					MREI								
	BREG	0				HBF					HLOF								
Input Selection	CREO	0				HLK					RECA								
menu	EPI					SAS	N				ALT								
	RUN	A				AUTO													
	RUNI	В				LKON													
	RUN	c _				LKOF													
	RUNI	D				SEC													
	RUN	E	1			HP		1											
	Ron							_											
	RUN	F				EC													

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Μ	Group	Parameter	Settings
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	other 8	termina	ls (I/O 9-	16) for out	tputs.		MAL			MAL			N/A·
	Nai B/	ne	¥/	N	Name		Y/N	Name		Y/N	Name		Y/N
					EPLC EPLD								
Output	DN	IP			EPLE								
Selection menu	D	F			EPLF								
	Н	F			EPLG								
	EF	۲L			EPLH								
	FR	1L											
	EP	LA											
	EP	LB											
	On per appear. Medica LOC= I UP call	landing/p HC-UIO I/Code b nput locat or DN (I	er car ba board ac lue calls tion on th nconspic	sis, this me ddressees then Aux e UIO, LD uous riser	enu suppor 5 00 to 31 a iliary Calls =Set the lar Down call),	ts code blue re used for - nding#, S= I XC= Cross	e or other sp these calls F for front ar Cancellatio	ecial needs s. I/O's seq nd R for Rea n, Y/N = Pro	risers. If mo uence start ar, Type=ME ogram as pe	ED (Medical er car's eligi	landings, ad lard hall cal cal) or UP (l bility.	ditional scr Is (front an Inconspicue	eens will nd rear), ous riser
	LOC	LD	S	Туре	XC	Car#	Car#	Car#	Car#	Car#	Car#	Car#	Car#
	001			-	-	A	0	U U	U		r	9	п
	002		1		-		-						
	003		1										
	004												
	005												
	006												
	007												
	008												
	009												
	010												
	012												
	012												
	014												
	015												
	016												
	017												
Codo	018												
Blue/Special	019												
call menu for	020												
Auxiliary Riser	021												
luring Normal	023												
Node	024												
	025												
	026												
	027												
	028												
	029												
	030												
	032												
	033												
	034												
	035												
	036												
	037												
	038												
	039												
	040				-								
	042												
	043												
	044		1										
	045												
	046	-										-	
	047												
	048		1	1	1	1		1	1	1			1





M Group Parameter Settings

	addition	landing/pe nal screen ront and i	er car ba s will ap r ear), M o	isis, this me pear. HC-U edical/Cod	enu suppor IIO board a le blue cal	ts ALT code addressees Is then Aux	blue or oth 00 to 31 au iliary Calls	er special r re used for	needs risers r these calls	(Auxiliary). . I/O's sec	If more than uence start	15 landi with sta	ngs, ndard hall
	LOC=I	nput locati	ion on th	e UIO, LD	Set the la	nding#, S= I	for front ar	nd R for Re	ar, Type=ME	D (Medica	al cal) or UP (Inconspi	cuous riser
	UP call) or DN (Ir	conspic	uous riser	Down call)	, XC= Cross	Cancellatio	n, Y/N = P	rogram as pe	er car's elig	libility.	Cort	Cart
	LOC	LD	S	Туре	XC	Cdi# Δ	B	Cal#	Dal#	Cal#	E	G	Gai#
	001									-		Ū	
	002												
	003												
	004												
	005												
	006												
	007												
	800												
	009												
	010												
ALT Medical/	012												
Special Calls	012												
or Auxiliary	014					1			1			1	
Riser during	015												
Allernate Mode	016			1				1					
	017												
	018												
	019												
	020												
	021										-		
	022										-		
	023												
	024										-		
	025												
	020												
	028												
	029												
	020												
	030												
	030												
	030 031 032 Hall ca	ll inputs an	e conne	cted to HC	-UIO board	d addresse	1 from 00 to	o 31 are us	ed for these	e calls. I/0)'s sequence	e start w	ith standa
	030 031 032 Hall ca hall ca Hall loo assign job wit start w the inp	ll inputs an Ils (front a ckout inpu ed to next h 5 floors rith 017. Jo outs.	e conne and rear uts are a t availat with sta ob with	cted to HC. r), Medical assigned t ole byte aff andard fro 12 floors v	-UIO board /Code blue o UIO add ter standa nt riser, H with stand	d addressed e calls then ress 32 the rd hall calls LF location ard front ris	d from 00 to Auxiliary C n follow by ; (front and start with ser, HLF loo	o 31 are us Calls. standard rear), Mec 009. Job w cation star	ed for these inputs. Hall dical/Code b vith 8 floors t with 025.	e calls. I/C lockout ir lue calls t with stand mGroup a	D's sequenco nputs locatio hen Auxiliar dard front ris utomatically	e start w on is aut ry Calls. ser, HLF / sets th	ith standar omatically For examp location e order of
	030 031 032 Hall ca hall ca Hall loa assign job wit start w the inp Referen	Il inputs an Ils (front a ckout input ed to next h 5 floors ith 017. Jo outs. nece to job	e conne and rear uts are a t availat with st ob with	cted to HC c), Medical assigned t ble byte afi andard fro 12 floors v correctly pro-	-UIO board (Code blue o UIO add ter standa nt riser, H with stand ogram the	d addressed e calls then ress 32 the rd hall calls LF location ard front ris hall calls an	d from 00 to Auxiliary C n follow by (front and start with ser, HLF loo	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H	ed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board	e calls. I/O lockout ir lue calls t with stand mGroup a	D's sequenco nputs locatio hen Auxiliar dard front ris utomatically	e start w on is aut ry Calls. ser, HLF / sets th	ith standar omatically For examp location e order of
	030 031 032 Hall ca hall ca Hall lo assign job wit start w the inp Referen FL=Flo	Il inputs an Ils (front a ckout inpu ed to nexis h 5 floors ith 017. Jo outs. nce to job or Label, U	e conne and rear uts are a t availat with st ob with print to c J=UP, D	cted to HC r), Medical assigned t ble byte aff andard fro 12 floors v correctly pri- correctly pri- lue	-UIO board Code blue o UIO add ter standa nt riser, H with stand ogram the :Hall, L=Lc	d addressed e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ick, F=Front	d from 00 to Auxiliary C n follow by 6 (front and start with ser, HLF loo d Lock input R=Rear	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H	eed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxiliar dard front ri- utomatically	e start w on is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of
	030 031 032 Hall ca hall ca Hall lo assign job wit start w the inp Referent FL=Flo	Il inputs ar Ils (front a ckout input ed to next h 5 floors ith 017. Jo nuts. nce to job or Label, L FL	e conne and rear uts are a t availat with st ob with print to c J=UP, D	cted to HC-), Medicali assigned t ble byte afi andard fro 12 floors v correctly pro- =Down, H= UHF	UIO board Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addressed e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ick, F=Front DHF	d from 00 to Auxiliary C n follow by (front and start with ser, HLF loo d Lock input , R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H	eed for these inputs. Hall dical/Code b /ith 8 floors t with 025. C-UIO board UHR	e calls. I/C lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxilian dard front ri- utomatically DHR	e start w on is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
	030 031 032 Hall ca hall ca Hall lo assign job wit start w the inp Referen FL=Flo	Il inputs ar Ills (front a ckout inpu ed to nex: h 5 floors ith 017. Jr outs. nce to job or Label, L FL	e conne and rear uts are a t availab with st ob with print to c J=UP, D	cted to HC-), Medicala assigned t ole byte aff andard fro 12 floors v correctly pri =Down, H= UHF	-UIO board Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF locatior ard front ri- hall calls an ick, F=Front DHF	d from 00 to Auxiliary C n follow by i (front and start with ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H	ed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/C lockout ir lue calls t with stan mGroup a	D's sequence aputs location hen Auxiliar dard front ris utomatically DHR	e start w on is aut ry Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
	030 031 032 Hall ca hall ca Hall loa ssign job wit start w the inp Referee FL=Flo	ll inputs ar lls (front a ckout inpu ed to nex h 5 floors ith 017. J nuts. nce to job or Label, L FL	e conne and rear uts are a t availab with st ob with print to c J=UP, D	cted to HC.), Medical assigned t ole byte aff andard fro 12 floors v correctly pri- =Down, H= UHF	UIO board CCde blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addressee e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ck, F=Front DHF	d from 00 tt Auxiliary C n follow by (front and start with ser, HLF loo d Lock input HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H F	ed for these inputs. Hall dical/Code b rith 8 floors t with 025. C-UIO board UHR	e calls. I/C lockout ir lue calls t iue calls t with stan mGroup a	D's sequence nputs location hen Auxiliar dard front ris utomatically DHR	e start w on is aut ry Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
	030 031 032 Hall ca hall ca Hall ca Hall ca ssign job wit start w the inp Reference FL=Flo	II inputs ar IIs (front a ckout inpr ed to nex h 5 floors ith 017. Jo nuts. nce to job or Label, L FL	e conne and rear uts are a t availat with st ob with print to c J=UP, D	cted to HC -), Medical assigned t ble byte aff andard fro 12 floors v correctly pri- =Down, H= UHF	UIO board CCde blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ock, F=Front DHF	I from 00 tc Auxiliary C n follow by to (front and start with ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job v cation star ts on the H F	ed for these inputs. Hall dical/Code b ith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxiliar dard front ri- utomatically DHR	e start w on is aut y Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
	030 031 032 Hall ca Hall ca Hall loa assign job wit start w the inp Referen FL=Flo	ll inputs ar Ils (front a ckout inp ed to nex h 5 floors ith 017. Jo outs. nce to job or Label, L FL	e conne and rear uts are a t availat with st: ob with J=UP, D	cted to HC.), Medical assigned t le byte aff andard fro 12 floors v correctly pri- EDown, H= UHF	UIO board (Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addressed e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ick, F=Front DHF	I from 00 to Auxiliary C (front and start with ser, HLF loo I Lock input R=Rear HL	o 31 are us Calls. • standard rear), Mec 009. Job w cation star ts on the H	eed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs locatic hen Auxiliar dard front rir utomatically DHR	e start w on is aut ry Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
Manual	030 031 032 Hall ca hall ca Hall ca Hall loa assign start w the inp Reference FL=Flo	ll inputs ar Ils (front a ckout inpu ed to nex h 5 floors ith 017. Ju uts. nee to job or Label, L FL	e conne and rear uts are a t availat with st ob with print to c J=UP, D	cted to HC.), Medical assigned t le byte aff andard fro 12 floors. =Down, H= UHF	-UIO board Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ri- hall calls an ick, F=Front DHF	d from 00 tt Auxiliary C n follow by (front and start with ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H	ed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence aputs locatic hen Auxiliar dard front ris utomatically DHR	e start w on is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
Manual Dverride Riser	030 031 032 Hall ca hall ca Hall loa assign job wit start w the inp Referen FL=Flo	ll inputs ar lls (front a ckout inpu ed to nex h 5 floors ith 017. Jr uts. nce to job or Label, L FL	e conne and rear uts are a t availat with st ob with print to c J=UP, D	cted to HC.), Medical assigned t ole byte afi andard fro 12 floors v correctly pre- =Down, H= UHF	UIO board COde blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addressee e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ck, F=Front DHF	d from 00 to Auxiliary C in follow by is (front and start with ser, HLF loo d Lock input d Lock input HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H F	ed for these inputs. Hall dical/Code b rith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxiliar dard front ris utomatically DHR	e start w pn is aut ry Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
fanual Override Riser ienu	030 031 032 Hall ca hall ca hall ca hall ca hall ca ssign job wit start w the inp Referent FL=Flo	ll inputs ar Ils (front a ckout inp ed to nex: h 5 floors ith 017. Jr uts. nce to job or Label, L FL	e conne and rear uts are a t availat with st ob with print to c J=UP, D	cted to HC.), Medical assigned t ole byte aff andard fro 12 floors v correctly pri- =Down, H= UHF	UIO board o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ick, F=Front DHF	I from 00 tc Auxiliary C n follow by i (front and start with ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job v cation star ts on the H F	ed for these inputs. Hall dical/Code b rith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxiliar dard front ris utomatically DHR	e start w on is aut ry Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
fanual Sverride Riser nenu	030 031 032 Hall ca hall ca hall ca hall ca hall ca hall ca ssign Referent FL=Flo	II inputs ar IIs (front a ckout inp ed to nex h 5 floors ith 017. Jo outs. nce to job or Label, L FL	e conne and rear uts are a t availat with st: ob with print to c J=UP, D	cted to HC.), Medical assigned t le byte aff andard fro 12 floors v correctly pri- Down, H= UHF	UIO board CCode blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF locatior ard front ris hall calls an ick, F=Front DHF	I from 00 to Auxiliary C n follow by (front and start with ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. • standard rear), Mec 009. Job v cation star ts on the H F	ed for these inputs. Hall dical/Code b ith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs locatic hen Auxiliar dard front ri- utomatically DHR	e start w on is aut ry Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
fanual Sverride Riser Tenu	030 031 032 Hall ca hall ca Hall ca Hall lo assign sob wit start w the inp Reference FL=Flo	ll inputs ar Ils (front a ckout inp ed to nex h 5 floors ith 017. Jo uts. roce to job or Label, L FL	e conne and rear uts are a t availat with st ob with D=UP, D	cted to HC.), Medical assigned t le byte af andard fro 12 floors v correctly pr =Down, H= UHF	UIO board Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location LF location ard front ris hall calls an ck, F=Front DHF	d from 00 tt Auxiliary C n follow by (front and start with ser, HLF loc d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H	sed for these inputs. Hall dical/Code b tith 8 floors t with 025. C-UIO board UHR	e calls. I/C lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxilian dard front ri- utomatically	e start w on is aut y Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
fanual Override Riser tenu	030 031 032 Hall ca hall ca Hall ca Hall loa assign start w the inp Referee FL=Flo	ll inputs ar Ils (front a ckout inpu ed to nex h 5 floors ith 017. Ju uts. nee to job or Label, L FL	e conne and rear uts are a t availab with st b with st J=UP, D	cted to HC.), Medical assigned t le byte aff andard fro 12 floors correctly pr =Down, H= UHF	-UIO board (Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF locatior ard front ri- hall calls an ick, F=Front DHF	I from 00 to Auxiliary C (front and start with ser, HLF loo d Lock inpul R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H F	ed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence aputs location hen Auxiliar dard front ris utomatically DHR	e start w on is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
/anual Dverride Riser nenu	030 031 032 Hall ca hall ca ha	ll inputs ar lls (front a ckout inpu ed to nex h 5 floors ith 017. Ju uts. ncc to job or Label, L FL	e conne and rear uts are a t availab with st ob with J=UP, D	cted to HC.), Medical assigned t ble byte af andard fro 12 floors v correctly pre- =Down, H= UHF	UIO board CCode blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addressee e calls then ress 32 the rd hall calls LF location ard front ris hall calls an cck, F=Front DHF	I from 00 to Auxiliary C in follow by is (front and start with ser, HLF loo d Lock input d Lock input HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H F	ed for these inputs. Hall dical/Code b rith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence aputs location hen Auxiliar dard front ris utomatically DHR	e start w pn is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
Manual Override Riser nenu	030 031 032 Hall ca hall ca hall ca hall lo assign job wit start w the inp Refere FL=Flo	ll inputs ar Ils (front a ckout inp ed to nex h 5 floors ith 017. Jo outs. nee to job or Label, L FL	e conne and rear uts are a t availat with st ob with print to c J=UP, D	cted to HC ·), Medical assigned t ole byte af andard fro 12 floors v correctly pr =Down, H= UHF	UIO board CCode blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ris hall calls an ick, F=Front DHF	I from 00 tc Auxiliary C n follow by i (front and start with ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job v cation star ts on the H F	ed for these inputs. Hall dical/Code b rith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxiliar dard front ris utomatically DHR	e start w on is aut ry Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
Manual Override Riser nenu	030 031 032 Hall ca hall ca hall ca hall ca hall ca hall lo assign job with start w the inp Refere FL=Flo	ll inputs arr Ils (front a ckout inp ed to nex h 5 floors rith 017. Jo ruts. rce to job or Label, L FL	e conne and rear uts are a t availat with st: J=UP, D	cted to HC.), Medical assigned t le byte aff andard from 12 floors v correctly pri- EDown, H= UHF	UIO board Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ris hall calls an tock, F=Front DHF	d from 00 tt Auxiliary C n follow by (front and ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. • standard • s	sed for these inputs. Hall dical/Code b ith 8 floors t with 025. C-UIO board UHR	e calls. I/C lockout ir lue calls t with stand mGroup a	D's sequence nputs location hen Auxilian dard front ri- utomatically DHR	e start w on is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
Manual Dverride Riser nenu	030 031 032 Hall ca hall ca hall ca hall ca hall ca hall lo assign f k f e l b h h h h h h h h h h h h h h h h h h	ll inputs ar Ils (front a ckout inpu ed to nex h 5 floors ith 017. Ju uts. nece to job or Label, L FL	e conne and rear uts are a t availab with st uith st UP, D	cted to HC.), Medical assigned t le byte aff andard fro 12 floors. >porrectly pr =Down, H= UHF	UIO board (Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ri- hall calls an ick, F=Front DHF	I from 00 tt Auxiliary C n follow by (front and start with ser, HLF loo d Lock input R=Rear HL HL	o 31 are us calls. standard rear), Mec 009. Job w cation star ts on the H F	ed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence oputs location hen Auxiliar dard front ris utomatically DHR	e start w on is aut y Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
Manual Dverride Riser nenu	030 031 032 Hall ca ha	ll inputs ar Ils (front a ckout inpu ed to nex h 5 floors ith 017. Ju uts. noce to job or Label, L FL	e conne and rear uts are a t availab with st ob with st	cted to HC. -), Medical assigned t ble byte aff andard fro 12 floors - correctly pre- Down, H- UHF	UIO board COde blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ris hall calls an DHF	I from 00 to Auxiliary C i (front and start with ser, HLF low d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H F	ied for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a)'s sequence nputs location hen Auxiliar dard front ris utomatically DHR	e start w pn is aut y Calls. ser, HLF y sets th	ith standard omatically For examp location e order of HLR
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Manual Sverride Riser nenu	030 031 032 Hall ca hall ca hall ca hall ca hall ca hall lo assign Referei FL=Flo	ll inputs ar Ils (front a ckout inp ed to nex ith 017. Jo outs. nce to job or Label, L FL	e conne and rear uts are a t availat with st: J=UP, D	cted to HC.), Medical assigned t le byte aff andard from 12 floors v correctly pri- EDown, H= UHF	UIO board Code blue o UIO add ter standa nt riser, hd ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ris hall calls an tock, F=Front DHF	d from 00 tt Auxiliary (front and start with ser, HLF loo d Lock input R=Rear HL	o 31 are us Calls. standard rear), Mec 009. Job v cation star ts on the H F	sed for these inputs. Hall dical/Code b ith 8 floors t with 025. C-UIO board UHR	e calls. I/C lockout ir lue calls t with stand mGroup a	D's sequence apputs location hen Auxilian dard front ri- utomatically DHR	e start w on is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
fanual Verride Riser tenu	030 031 032 Hall ca hall ca hall ca hall ca hall ca hall lo assign FL=Flo	II inputs arr IIs (front a ckout inpe ed to next h 5 floors ith 017. Jo uts. FL FL	e conne and rear uts are a t availab with st D with st D UP, D	cted to HC.), Medical assigned t le byte aff andard from 12 floors v correctly pri- EDown, H= UHF	UIO board Code blue o UIO add ter standa nt riser, H with stand ogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF location ard front ris hall calls an nck, F=Front DHF	d from 00 tt Auxiliary C n follow by (front and ser, HLF look input R=Rear HL HL	o 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H F	sed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence nputs location hen Auxiliar dard front rite utomatically DHR	e start w on is aut y Calls. ser, HLF / sets th	ith standar omatically For examp location e order of HLR
fanual Verride Riser tenu	030 031 032 Hall ca hall ca hall ca hall ca hall ca hall ca hall lo assign FL=Flo	ll inputs ar Ils (front a ckout inpu ed to nexi h 5 floors ith 017. Ju uts. nece to job or Label, L FL	e conne and rear uts are a t availab with st uith st uith st uith st uith st uith st uith st	cted to HC.), Medical assigned t le byte aff andard fro 12 floors v correctly pr =Down, H= UHF	UIO board Code blue o UIO add ter standa nt riser, H with stand bogram the Hall, L=Lc	d addresse e calls then ress 32 the rd hall calls LF locatior ard front ri- hall calls an ick, F=Front DHF	I from 00 to Auxiliary C n follow by (front and start with ser, HLF loo d Lock inpul R=Rear HL	p 31 are us Calls. standard rear), Mec 009. Job w cation star ts on the H F	ed for these inputs. Hall dical/Code b vith 8 floors t with 025. C-UIO board UHR	e calls. I/O lockout ir lue calls t with stan mGroup a	D's sequence apputs locatic hen Auxiliar dard front ris utomatically DHR	e start w pn is aut y Calls. ser, HLF y sets th	ith standar omatically For examp location e order of HLR
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M Group Parameter Settings

		_						
	This menu define board addresse automatically c Note: If job Elig by below inputs start with 009. I LOC= Location	es the physical lo is 32 to 63 (exco onfigure first 8 libility is progra s. LOC ID for st Hall lock inputs	ocation mapped for ept 37-44) are used terminals (I/O 1-8 mmed with Hall Io andard inputs sta = 9 then LOC ID s	each programm d for these input) for inputs and ckout inputs th rt with assigne tart with 017.	ed "spare" input allo Its. Whenever add I other 8 terminals inen first UIO Board d Hall lock bytes+1	ws the user to red ress 32-63 is sel (I/O 9-16) for out s are dedicated to I. For example: H	order the default se ected, then softw puts for hall lock input lall lock inputs=5	etting. HC-UIO are s then follows then LOC ID
	NAME	LOC	NAME	LOC	NAME	LOC	NAME	LOC
	REC		RUNH		PTI			
Input Manning	AREC		FBY		MRET			
Manual	BREC		HBF		HLOF			
Override Menu	CREC		HLK		RECA			
Overnide Mieria	FPI		SASW		ALT			
	RUNA		ALITO		7121			
	RUNB		LKON					
	PLINC		LKOE					
	RUND		SEC					
	DUNE							
			EC					
	RUNE							
	RUNG							
	This menu allows default settings. then software a	s you to reassigr HC-UIO board a automatically cc	n the physical locati addresses 32 to 63 onfigure first 8 ter	on mapped for (except 37-44) minals (I/O 1-8)	each "Spare" output	programmed and outputs. When	allows the user to ever address 32-6 O 9-16) for outpu	reorder the
	LOC= Location	oss Cancellatior	option is enabled	I, cross cancel	outputs start on fi	rst available out	out byte after star	idard I/O.
	LOC= Location	bss Cancellatior	NAME	l, cross cancel LOC	NAME	LOC	NAME	ndard I/O.
	LOC= Location NAME BAL	bss Cancellatior	NAME EPLF	l, cross cancel	NAME	LOC	NAME	LOC
	LOC= Location NAME BAL UPP	LOC	NAME EPLF EPLG	I, cross cancel	NAME	LOC	NAME	LOC
Output Mapping	LOC= Location NAME BAL UPP DNP	LOC	NAME EPLF EPLG EPLH	I, cross cancel	NAME	LOC	NAME	LOC
Dutput Mapping Manual	Note: When Cro LOC= Location NAME BAL UPP DNP DF UF	LOC	NAME EPLF EPLG EPLH	I, cross cancel	NAME	LOC	NAME	LOC
Output Mapping Manual Override Menu	Note: When Cro LOC= Location NAME BAL UPP DNP DF HF	LOC	NAME EPLF EPLG EPLH	I, cross cancel	NAME	LOC	NAME	LOC
Output Mapping Vanual Override Menu	Note: When Cro LOC= Location NAME BAL UPP DNP DF HF EPL EPL	LOC	NAME EPLF EPLG EPLH	I, cross cancel	NAME	LOC	NAME	LOC
Output Mapping Manual Override Menu	Note: When Cro LOC= Location NAME BAL UPP DNP DP HF EPL FR1L	LOC	NAME EPLF EPLG EPLH	I, cross cancel	NAME	LOC	NAME	LOC
Output Mapping Manual Override Menu	LOCE Location NAME BAL UPP DNP DF HF EPL FR1L EPLA	LOC	NAME EPLF EPLG EPLH	I, cross cancel	NAME	LOC	NAME	LOC
Output Mapping Manual Override Menu	Note: Uncertain LOCE Location NAME BAL UPP DNP DF HF EPL FR1L EPLA EPLA	LOC	NAME EPLF EPLG EPLH EPLH	I, cross cancel	NAME	LOC	NAME	LOC
Output Mapping Manual Override Menu	LOCE Location LOCE Location BAL UPP DNP DF HF EPL FR1L EPLA EPLB EPLC	LOC	NAME EPLF EPLG EPLH EPLH	I, cross cancel	NAME	LOC	NAME	Idard I/O.
Output Mapping Manual Override Menu	Note: When Cellsocation LOC= Location BAL UPP DNP DF HF EPL FR1L EPLA EPLA EPLC EPLD	LOC	NAME EPLF EPLG EPLH EPLH	I, cross cancel	NAME	LOC	NAME	Idard I/O.



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M Group Parameter Settings

			Edit	Job F	Parameters	6				
	Peal	k Mode	es and	Emerg	gency Power	Recall floor	•			
Parameter Name	Description								MCE Setting	
Priority (Sec)	When a call has been reg	istered f	for longer	r than se	tting, the dispate	her assigns it hi	igh priority			
	Sets the delay time the sy changing traffic conditions Timer Based Peak Oper During each 24 hour peri	/stem wi s ration od, midn	ill observe	e before idnight, ι	dropping dynam	and two down p	eak due to beak periods of			
Mode Hysteresis Timer	operation may be specifie	ed. Set a	Il start ar	nd end Ti	mers to 00:00 to	turn off.	Stor		End	
	UP PK 1		Sidri		Enu	UP PK 2	Star	ι	Ellu	
	UP PK 3					UP PK 4				
	UP PK 5					UP PK 6				
	DN PK 1		or of opti		lle in companies	DN PK 1	of active down			
Hall call Imbalance UP	calls that will trigger dyna	ne numb mic sele	er of acti	ive up ca in neak (ills in comparisor	n to the number of	of active down			
Hall call Imbalance	The difference between the	he numb	er of acti	ive down	calls in compari	son to the numb	er of active up			
Down peak calls	calls that will trigger dyna	mic sele	ction of c	lown pea	ak operation		•			
Hall Call Stall Detection (Sec)	Determine the number of state (FLT) when the car its doors. During the fault	seconds is on the state, th	s the syst same flo ne hall ca	tem will v por as its Il will be	vait before placir hall call assignr reassigned.	ng the car into a nent but is stuck	temporary fault or can't open			
Emergency Power	Selects the floor to which	group c	ars will re	ecall whe	en emergency po	wer becomes av	vailable during a			
Recall 11001	Dispate	hing P	onalty	and A	dvantage as	signment m	onu			
	Description	ining i	enalty		uvantage as	Des	cription			
Generator Off	Penalty timer assigned to with MG set. Set to 0 for A drive and SCR drive	a car AC	00	This ca	ar UP	Penalty assig when calculat to assign to a	ned to lobby car ting the best car call			
	Description					Des	cription			
Next car UP	Penalty timer assigned to car up when calculating th best car to assign to a cal	next ne II	02	Halted	Time	Penalty assig depending up of time require decelerate an doors.	ned to a car oon the amount ed for it to id cycle its			
Advantages:	In Line Call: An advantag	e given	to a car t	hat will p	ass the active ha	all call in its pres	ent direction of		In Line Call=05	
In Line Call Call Coincidence	travel. Call Coincidence: An adv registered	antage g	given to a	a car that	has a car at the	floor for which the	he hall call	Call Coincidence=05		
Doors Open Simultaneously	Program to "Yes" if front a doors open sequentially.	and rear Default s	doors op setting is	en simu "Yes".	Itaneously. Prog	gram to "No" if fro	ont and rear			
Reopen Door with hall	Set to "Yes", pressing the	hall cal	l button w	vill cause	a closing door t	o reopen or to b	e held open if			
Call Bypass stuck hall call	The number of seconds the	lea hat a coi	ntinuousl	v nrosso	d hall call button	can be used to	keen the car			
Timer (sec)	door open at a floor		minuousi	y presse	a nan can button	can be used to	Reep the car			
Time out of Service (sec)	Set the amount of time the fault status and reassigns	at the ca the hall	ar will be call	allowed	to stand at a floo	or before the disp	batcher puts into			
Hosp. Recall Timeout	Set the amount of the tim	e door w	vill remair	n open w	hen the car is at	the recall floor v	waiting to go on			
Hosp Override Fire if	Set to yes, a car on medical	gency cal phas	e 1 recal	l will not	respond to a sub	osequent fire pha	ase 1 recall.			
trig 1 st (sec)	Set to No, fire phase 1 re	call will o	override t	he Hosp	service					
IND cars	independent service will b	endent s be exem	service w pted from	n medica	li call	I recall. Set to N	o, cars on			
Assign Hosp. Calls to ATT cars	Set to Yes, cars on Attend Attendant service will be	dant ser exempte	vice will b d from m	be assigr nedical ca	ned to medical re all	ecall. Set to No c	ars on			
Lockout inputs Normally Closed	Set to NO if job print show Set to Yes if job print show	vs Locko ws Lock	out inputs	s are nor s are nor	mally open. mally closed					
Lockout Car calls w/hw hall Lock	Set to Yes, an active hard	dware ha ware hal	all lock inp	put will a ut will af	lso lockout car c fect only the hall	alls for the association of the	ciated floor. ociated floor.			
Drop Group Hall calls for IR cars.	Set to Yes, a car running Set to No, a car running c accept group hall calls	on incor on incons	spicuous	s riser (S riser (Sv	wing) will not be ving) after answe	assigned group ering swing hall o	hall calls calls, it may			
HLOF input Normally Open	Set to Yes when Hall Call Set to No when Hall Call	Lock O Lock Off	ff input a f inputs a	re norma re norma	ally open. ally Closed.					
Lockout Car calls with Alt riser	Set to Yes, and the dispar corresponding to hall calls	tcher ha s that ar	s an alter e not vali	rnate rise d for the	er, the dispatche selected riser	r will lockout the	car calls			
	All car calls (except for th	e Lobby) on all ca	ars will lo	ock and unlock a	utomatically at th	nese set time.			
Auto Car call Locks by	Mon to Fri			ON			OFF			
riine	Sat only									
	Surromy			011	1					

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		Perfor	mance Cu	rves	and Ba	ckup Dis	patching					
	These timers	allow you to se	t as many as f	our ti	me periods	a day durir	ng which the	dispatche	er will c	ommand	High Pe	erformance or
	energy conse	rvation speed of	urve assignme	ent to	group cars	as set. 0 =	High Perfor	<u>m, 1 = Er</u>	ergy C	onserv.	-	0
Energy Conserv. status	Time On	Time Off	Stati	IS	5	IVI	1	VV		1	F	5
based on Time and Day						-						
Hall Call Long Walt Time before switching to high Perform	The number of from energy of	of seconds for a conservation to	i hall call being high performa	regi nce c	stered befo operation to	re the dispa respond to	atcher switch a call	nes a car				
Does this dispatcher have a backup	Set to Yes, th	ere is a backup	dispatcher fea	ature						MC-MC Boarda (For Ma Dispatel	CP #1 ain her)	MC-MCP Board#2 (For Backup Dispatcher)
Is this dispatcher the backup	Set to Yes, if	this is backup c	lispatcher. Set	to N	o, if this is F	Primary or N	∕lain dispatc	her		MC-MC Boarda (For Ma Dispatcl	CP #1 ain her)	MC-MCP Board#2 (For Backup Dispatcher)
Main Dispatcher failure Time out (.1 sec)	Set the amou after loosing	nt of time the b communication	ackup dispatch with the prima	ner sh ry dis	hould wait b spatcher. De	efore taking	g over car di g is 5.0 sec	spatching (050)			·	
Cross cancel Time (.1	ON: Controls	the time ON du	ration for cros	s Car	ncellation si	gnal.						
sec)	OFF: Control	s the time OFF	duration for cr	oss C	Cancellation	signal.		-4				
threshold	call If the tim	er expires the h	ed, the time ai iall call will be	reass	i for a contr signed to a	enacy cont	roller	ctive nali				
Cross Registration	The time allot	ted for a signal	transferring a	call f	rom the MC	E dispatch	er to a legac	y controlle	ər.			
Maximum car speed (FPM)	When Cross	Registration is a	active, set the	contra	act speed o	f legacy ca	rs.					
With Alternate ELIG MAP, cross latch auxiliary riser during Normal mode (for dispatcher software 4.0 or greater only)	This setting is	s used to select	cross latch au	xiliar	y riser durir	ig Normal C	Operation					
For Cross Registration	When Cross all car's	registration is a	ctive, this para	imete	er set tells th	ne MCE gro	oup which leg	gacy cars	are in s	service. [Default s	etting is No for
Cars in service on the	Car A	Car B	Car C	;	Car I)	Car E	Car	F	Car G		Car H
			Davk		Configure							
Dynamic Sector Parking	When set to	r, the dispatche	r will optimize	parki	ing decision	in real time	e, taking into)				
Parking Delay timer	Determine ho	w long an idle o	car should wait	t at th	ne last serve	ed floor befo	ore moving t	o its				
Parked at fully locked	Se to Yes, if o	cars should parl	k at an assigne	ed flo	or even if th	ne floor is c	urrently fully	locked				
10013	Allows a prior Floor set to 0 Car set to 00	ity parking floor 0, the car will pa , the first availal	to be set, on ark at the last s ble car will par	timed serve k at tl	l basis, for e d floor unle he floor.	each car in ss lobby or	group zone parkin	g assignn	nents a	re in effe	ct	
	FLR		CAR		Tin	ners	HR:M	N	Tin	ners		HR:MIN
User defined parking floors					C	N			0	FF		
					0	N			0	FF		
									0			
	This setting a	llows you to spl	it the group, (GRP1	I and GRP2	?), into two	different lob	oy covera	ge and	standard	l "lobby"	parking.
Labby Darking	Cars	1	2		3	4	5	a group	6		7	8
LODDY FAINING	Grp1											
	Grp2											
Cars to Lobby On:	The # of cars	within that grou	up, (GRP1 and	GRF	P2), set to lo	bby floor d	uring BALAI	NCE, UP I	PK, and	DN PK	operatio	n
Balance		BAL		-	-	GP1	:			(GP2:	
Up peak		UP PK				GP1:				(GP2:	
Down peak Door open Time at	Doors Dwell	UN PK Time when This	CAR UP state	is is a	active for ca	GP1: ar at lobby r	Darking				3PZ:	

M Group Parameter Settings

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lobby(sec)	Door Dv	vell Time: 1 ·	- 98 Secon	ids. Dwell T	ime 99 -D	oor ren	nains	open	at lob	by floor						
Door Open Time lobby	Door Dv	vell Time for	lobby floor	. Note: Doo	r Dwell tin	ne will b	be car	ncele	d by la	tching car	calls					
			•													
		Fr	able Art	tificial Int	telligen	e Lo	bby	Par	kina/	Zonina					_	
Enable A.I Lobby	Set to Y	, the dispate	her will use	artificial in	telligence	to dyna	amica	lly co	ntrol lo	bby parkin	g zone and	i				
Parking/Zoning	zone pa	rking feature	es.													
A L Status	After op	erating and	collecting d	ata for 24 h	ours, the	A.I. sta	tus di ations	splay	will be	populated	with data.					
A.I. Olalus	user-enterable parameters															
			Emerge	ncy Pow	er conf	gura	tion	-sta	and a	lone						
	Not	e: Emerg	ency Po	wer Con	figurati	on –S	Split	(Not	t avai	lable at	this time	e)				
	This me	nu allows yo	ou to setup	group beha	vior during	emer	gency	/ pow	er oper	ation.						
	Stand a	Ilone: During	g the event	of emergen	cy power,	the dis	spatch	ner wi	II contr	ol all sequ	ence of					
	Split: D	ourina the ev	ent of eme	raency pow	er. the dis	patche	ent no	contro	ol all se	auence of	operation.					
	The Dis	patcher's En	nergency is	independe	nt from ot	her gro	ups.			1						
Emergency power	Master:	During the	event of em	nergency po	wer, the c	ispatch	ner wi	ill con	trol the	sequence	of	<u>_</u>				
	the con	nected arour	ioup conne is.		iviaster. I	ie Disp	Jaione		merge	icy Fower	is based o					
	Slave: I	During the ev	ent of eme	ergency pow	ver, the dis	patche	er will	opera	ate acc	ording to t	ne Master					
	Dispatc	her. The Dis	patcher's E	mergency F	Power is d	efine a	s one	of the	e group	os connect	ed to the					
	Set to '	Cars on A	TT/IND mo	de with doo	ors open v	vill clos	e its r	door :	and ret	urn to the	ecall floor					
Recall ATT/IND Cars	on Eme	rgency Powe	er Phase 1		no opon, i			0001 0								
EM power Ph 1	Set to 'N	I', Cars on A	TT/IND mo	ode with doo	ors open v	ill rema	ain op	ben. C	ar will	be out of \$	Service. Or	1				
EMC DWD: Amt care	emerge	ncy Power P	hase 2 Aut	o-run, car v	vill be in s	ervice a	at the	prese	ent floo	r.						
manual select	The # o	f cars to run	on Emerge	ency Power	Phase 2:	Manua	l Sele	ct								
Phase 1 car Time-out	Recall ti	me (sec) allo and car fails	otted for a c	car to return	to the rea	all floo	or on e	emerg	ency p	ower phas	e 1. If time	er ar				
	For eac	h Priority gro	up, enter th	he car numb	pers in ord	er in w	hich t	they s	hould	be selecte	d to run on	emergency	power ph	ase2		
	during A	UTO selecti	on. If you a	are separati	ng into pri	ority gr	oups,	enter	the ca	ar numbers	in run in C	Group1 and	eave grou	.p2 set to		
EMG Power phase 2	all zeros	S.	Description	n	(ar#	Ca	ar#	Car	t Car	t Cart	Car#	Car#	Car#		
auto select priority		EMG Power	PH2 auto s	select Priori	ty for	Juin	00	A1 //	oun	, 0017	ouin	Gain	Gain	Ourn		
groups	1	0	GRP 1 or G	EN 1	-											
	2	EMG Power	PH2 auto s	select Priori	ty for											
			oscription													
Amount cars	The # o	Looro to rup		nov Bower	(Group1	or GE	EN			Grou	p2 or GEN	or GEN			
	Phase 2	Auto Run	on Emerge	Fower												
Add No. Cars					1								1			
group1/GEN 1 to	Set to '	(', GRP 1's c	ar fail to re	turn to reca	ll floor. T	ne # of	cars of	define	ed to ru	in on GRP	1's EPI wi	I				
group2 / GEN 2 II group1/ GEN 1 cars	Set to 'N	l'. Do not co	mbine GRF	P 1and GRF	2 # of ca	rs to ru	ın on l	EPI								
can't return		.,														
Phase2 emergency	Set to '	", on Emerg	ency Powe	r Phase 2 A	uto Run o	ars on	ATT/	'IND n	node h	ave higher	priority to					
power return to service	be select	ted to run th	an cars de	fined in Aut	o Run See	uence	tod c	ar to	run ie k	nased on t	Auto rur	,				
cars	Sequen	ce	ency i owe	111030 27		0 30100	cicu c	ai to			ie Auto iui	'				
					Descript	ion										
	On Mas	ter Emergen	cy Power,	define the ti	mer for P	Η1, (Re	ecall),	and I	PH2 (E	P2 Run)						
Times PH1: Ph2:	PH1: R	mer (sec) se	t to run Aut	omatic FPI	Phase 2 f	or cars	defin	e for	the Ma	ster Dispa	tcher If	PH1	F	'H2		
	timer ex	pired and ca	ars within th	e Master D	ispatcher	ail to r	un on	EMG	PWR	PH2, cars	define in					
	the Slav	e Dispatche	r or Simple	x will be el	ected to r	un on E	EMG I	PWR	PH2							
Phasa1 rocall Order	Enter th	e order in wi	nich cars re	ion	Car 1	Car	2	Car	3	Cor 4	Car 5	Carle	Car 7	Car 8		
Filase Fiecali Oldei	PH1 C	Order	Recall Seq	uence	Call	Gai	2	Cai	5	Cal 4	Cal J	Caro	Gair	Caro		
Max Number car's to	Tho pur	nhor of care	to be recall		uely on E	morgor		owor	Dhaso	1 Pocall						
run on Phase 1				"		neigei	ICY F	owei	Filase	Thecan						
EPI Switch Normally	Set to Y	es, EPI conta	act is norm	ally open.	bos											
	00 10 14	J. LI I COIIta	or type is no		beu											
				Call Loci	ks: Fror	t Ris	er p	er ca	ar							
	This scr	een used to	Lock or Un	lock the fro	nt riser on	per ca	r/per	riser l	basis. I	For dispat	cher softw	vare versio	n 4.0 or g	reater,		
Front Discolards Front	this scr	een is visib	le only if H	all lock co	nfiguratio	on prog	gram	to "Y	'es" fo	r front ris	er under jo	ob configur	ation (flo	or		
Front Riser Lock Enable	eiigibili	D = DOWN	C = CAP	Y= Locked	N= Not	ocked										
	<u> </u>	Ca	ar A	. LOOKOU			Ca	ar B				Ca	r C			
	FL	U	D	С	FL	1	U		D	С	FL	U	D	С		

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	This scre this scre	en used to en is visib	Lock or Unle only if H	Call Locl ock the fror all lock col on)	ks: Rear triser on p nfiguration	Riser pe er car/per r program	r car iser basis. to "Yes" fo	For dispate	cher softw r under job	are versio	n 4.0 or gre tion (floor	eater,
Rear Riser Lock Enable	This screeting s	en used to en is visib //hall lock > = DO(WM)	Lock or Unl le only if H configurati	Call Loc ock the fror all lock col on). Y= Locked	ks: Rear triser on p nfiguration	Riser pe er car/per r program t	r car iser basis. to "Yes" fo	For dispate	cher softw r under job	are version	n 4.0 or gre tion (floor	eater,
Rear Riser Lock Enable	This scre this scre eligibility U = UP, I	en used to en is visib //hall lock /= DOWN.	Lock or Unl le only if H configurati C = CAR, r A	Call Locl ock the fror all lock co on). Y= Locked,	ks: Rear ks: riser on p figuration N= Not Lo	Riser pe er car/per n program to pcked	r car iser basis. to "Yes" fo	For dispate	cher softw r under job	are version o configura	n 4.0 or gra tion (floor	eater,
Rear Riser Lock Enable	This scree eligibility U = UP, i	en used to en is visib //hall lock D = DOWN, Ca	Lock or Unl le only if H configuratic C = CAR, r A	Call Locl ock the fror all lock co on). Y= Locked,	ks: Rear triser on p nfiguration N= Not Lo	Riser pe er car/per r program 1 scked Ca	r car iser basis. to "Yes" fo	For dispate	cher softw r under job	are versioi o configura	n 4.0 or greation (floor	pater,

M Group Parameter Settings



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Μ	Group	Parameter	Settings
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