



SECTION 10 - MERIDIA GROUP SETUP

HPU Hall Call Activation

1. Verify that all HPUs for the hall push buttons have been installed and properly addressed. See Section 1 page 7 for details.
2. Verify the following Group CSW bits are reset (disabled):
 - CS4 bit 5 - Set to use I²C for Hall Calls else HPUs
 - CS4 bit 13 - Set to enable front auxillary riser.
 - CS4 bit 14 - Set to enable rear auxillary riser.
3. Set Group CS4 bit 3 to disable Emergency dispatching. This will be reset after HPU are communicating.
4. Verify hoistway wiring for HPUs are connected to terminals, VH+, VHC, HCRT+ & HCRT- and is clear from all high voltage wires.
5. Verify this wiring is at least 6" away from any high voltage wiring. (mainline and motor).

Note: *If the HPU's LED is flashing, check the VH+ & VHC power connections to the card. If it is on solid, check the HCRT+ and HCRT- communication connections.*

6. Scroll to Car Commands and select CMG and press enter (this can only be done when connected to the group car). This will display the address of each hall HPU and the status of its communication. The primary HPU addresses are 11 through 42.

Note: *If there are any with 100% failures, check the connection address of that HPU. If problem still exists, replace HPU.*

7. With all the HPUs showing good communications, place the car on Automatic and, using the hall push button stations, call the car to each landing, using both the up and down push buttons.

Note: *If aux. risers are used, set Group CS4 bit 13 and repeat step 6.*

Note: *If rear aux. risers are used, set Group CS4 bit 14 and repeat step 6.*

I²C Hall Call Activation

1. Verify all hall call wiring has been connected to its proper terminal.
2. Verify Group CS4 bit 5 is set to enable I²C hall call enabling, and bits 13 and 14 are reset.
3. Set Group CS4 bit 3 to disable Emergency dispatching. This will be reset after HPUs are communicating.
4. Scroll to Car Commands and select CMG and press enter (this can only be done when connected to the group car). This will display the address of Group I²C device and the status of its communication.

Note: *If there are any with 100% failures, check the connection address of that I²C Device. If problem still exists, replace I²C.*

5. With all the I²C Devices showing good communications, place the car on Automatic and, using the hall push button stations, call the car to each landing, using both the up and down push buttons.

Note: *If aux. Risers are used, set Group CS4 bit 13 and repeat from step 1.*

6. Scroll to Car Commands and select CMG and press enter (this can only be done when connected to the group car). This will display the address of each hall HPU and the status of its communication. The primary HPU addresses are 11 through 42.

7. With all the HPUs showing good communications, place the car on Automatic and, using the hall push button stations, call the car to each landing, using both the up and down push buttons.

8. Reset CS4, 3 to enable emergency dispatch.



- Set up EDS System using Black Terminal Screen.

Setting Additional Group Parameters

- Set the following parameters for the group under the Group Parameters Menu.

Note: *These parameters that set floors must also be set to the same floor in each car.*

| | |
|-----|---------------------------------|
| LBY | Lobby Floor Designation |
| FIR | Main Fire Recall Landing |
| FAL | Fire Alternate Floor Landing |
| EPF | Emergency Power Floor |
| MEP | Maximum Cars on Emergency Power |
| LER | Elevator Lobby Request Set to 0 |

Group Dispatching

Note: *This procedure can be set up when 2 or more of the cars have been put into service. It is ideal to set the group up when all cars are in service.*

Note: *Prior to setting up the group, it is a good idea to monitor and note existing traffic patterns. For example, if the main lobby has continuous traffic all day, then an elevator might want to be returned to the lobby when free.*

The Meridia is defaulted so that elevators will stay at the last floor served if there is no demand. If this is what is required, there is no further adjustment necessary.

Parking One or More Cars at the Lobby

- Note which floor in the building is referred to as the main lobby.
- Set Group parameter LER to the number of elevators wanted to be placed at the lobby. In most cases this will be 0 (no elevators required) or 1.
- Place all the elevators on Automatic and observe, verifying that the number of cars returning to the lobby matches what was set for parameter LER.

Note: *If the lobby has floors below, an elevators going up from those lower floors will always stop at the lobby.*

- Once the proper number of elevators have been assigned to stop at the lobby an extended door time can be programmed in for that floor. If this is desired set CSW 0 bit 1 and entering the time required to stay open at group parameter NDH.

Should the remainder of the elevators be required to space themselves out in the building once they are free for a period of time, then Zoning will be required.

Zoning Setup

- Note the traffic in the building and determine the following:
 - Is one or more cars required in the lobby?
 - Are there certain floors where you would want to park an elevator?
 - What floor spacing would be required to accommodate one elevator per zone? (Having an elevator parked at the lobby will be a separate zone function).
- Count the number of elevators that are in the group minus LER value and set Group Parameter NZN to that number.
- Set CSW 0 Bit 4 to have the elevators park at specific floors.
- Set ZN1 (first zone) to the floor where an elevator should park.
- Set ZN2 (second zone) to the floor where an elevator should park.
- Continue setting ZN# until there are no more elevators for zones. The ZN# should equal the NZN parameter.
- Set the time the elevators have to set idle before zoning using PFT parameter.
- Once these are set, use the WRT Car command to save to flash memory.



Up Peak and Down Peak

1. In order to trigger up peak automatically from the number of calls or load, set the following Group Parameter:

UCC – Number of trips from the lobby with more than 2 calls entered.

ULC – Number of trips from the lobby with load switch tripped.

2. In order for Down peak to be triggered by calls, ETA times and wait times, set the following parameters:

DCC – Number hall calls initiated at one time.

DTT – Average ETA time. The time that triggers down peak if the average ETA time exceeds this value.

DWT – Long down call waiting time. If a down call is not answered in this amount of time the system will swing to Down Peak.

Setting Elevator ETA Parameters in the Group

In order for the group to properly dispatch the elevators to the call, it must know specific details of each elevator.

1. Using a stop watch, observe and note the following:
 - A. Average acceleration time it takes the elevator to reach top speed.
 - B. Average transfer time the doors are fully open when loading and unloading passengers.
 - C. Blind travel time it takes the car to travel through a blind hoistway.
 - D. Door closing time it takes the doors to close.
 - E. Average deceleration time it take the elevator to slow from top speed to stopping at a floor.
 - F. Door open time it takes to open the doors fully.
 - G. Speed of elevator in timed units by using the formula:

Average floor height (h)/(Speed in FPM/60) X 16 =SPE value

or for metric

Average floor height in meters X 3.28/(Speed in meters per second/.3048) X 16.

- H. If this is a generator application the time it takes for the generator to start completely.
2. Using the **Group Command REE**, enter the car number you are working on, then enter the previous values For example, REE = 1.
 3. With the exception of **SPE** all values recorded in the previous steps will be multiplied by 16 and entered into these related group parameters. **ACC, ATT, BTT, DCT, DEC, DOT, GPT, SPE.**

