



BETACONTROL

# Special Elevator Control Functions

Safety, Efficiency and Comfort for Users

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## PUTTING YOUR SHOPPING INTO THE ELEVATOR/"CLEANER" MODE - HOLD MODE

For a preset period of time, the elevator is parked on the floor with its automatic doors left open. On the desired floor, the floor on which the elevator cabin is currently standing will be selected together with pressing the door opening button.

The automatic shaft and car doors will remain open for the time set in the internal memory of the elevator control system.

Activation of the HOLD mode is indicated by all buttons lighting up and the PAUSE symbol appearing on the display.

Once the cleaning or loading of shopping into the elevator has been finished, you can exit the mode by making any selection and the elevator will switch to the standard mode.

The mode can be deactivated in the elevator parameters.



## DAY AND NIGHT MODE

It has its practical use when buildings are closed to the public, when access is restricted to security guards or selected staff on selected floors of a building only, or in hospitals or office buildings. The modes are switched automatically as per the preset schedule.

## INFORMATIVE MODE AND REMOTE ADMINISTRATION

This mode allows you to display useful information on the panel display such as various informative messages (community of owners), advertisements or information about the location of companies/organizations that are on a given floor.

## DESTINATION-ORIENTED CONTROL

It can be effectively used, for example, in administrative buildings where a large number of people are transported at a given time. In this elevator group control mode, the user enters the destination floor and the system selects the elevator that will take the user to the selected floor. Selections are not enabled in the elevator cabins.

Modes for the disabled, as well as for maintenance and servicing of elevators, are available. There is an option for connecting to the building access system.

## CONNECTION TO BMS

Beta Control elevators can be connected to the BMS using the Modbus TCP/IP protocol and can transmit the following information:

- **information on the operational condition of the elevator** (position of the cabin, door status, direction of travel + information on the BMS screen)
- **instant information about the elevator malfunction** (information on the BMS screen)

## LOCKOUT MODE UPON UNAUTHORIZED OPENING OF THE SHAFT ELEVATOR DOOR

In this mode setting, any unauthorized opening of the shaft door is detected. If this happens, the elevator gets locked out.

## SHABBAT ELEVATOR MODE

A version of elevator control that operates in a special automatic mode. It conforms to the Jewish law that requires the Jews to refrain from operating electrical switches during Shabbat.

## CAR ELEVATOR CONTROL MODE

A mode for controlling the entry and exit of cars IN and OUT of the building using a single elevator. This mode enables optimized operation and improves the overall efficiency of the elevator system.

## CONTROL MODE FOR A PAIR OF CAR ELEVATORS

A mode for controlling the entry of one car into the garage and the exit of another car out of the building. The simultaneous upward travel of both elevators may be blocked due to low power input to the building (mainly in the case of hydraulic elevators).





# Special Elevator Control Functions for Hospitals

Efficiency, Comfort and Continuous Surveillance

## **PRIORITY TRAVEL MODE**

### **URGENT ELEVATOR CALL**

After putting the chip on the reader of the floor caller, the elevator cabin stops immediately (if going in the opposite direction) and arrives at the platform from where the selection was made using the chip. Upon arrival, the priority is terminated and the cabin selection will be made in the standard way.

### **URGENT TRAVEL TO THE DESTINATION STOP**

To be used when there is a request for a doctor to arrive at the destination floor as soon as possible. After putting the chip on the external caller, the cabin completes the last selection and arrives at the required stop, where it will wait for 60 seconds for the cabin selection to be made. If no selection is made, the mode is terminated.

Upon making the selection, the elevator cabin executes one selection (it is possible to change the destination stop during the travel) and the mode is then terminated.

### **LOCKING THE ELEVATOR FOR THE OPERATORS OF URGET ADMISSION ONLY**

After putting a special chip on the elevator control panel, the priority mode is activated (the destination stop can be changed in the cabin). The priority mode is active until the chip is put to the panel again. If no chip is put on the panel, the priority mode will be active indefinitely. In the case of using a mechanical key, the priority on the elevator panel remains active for as long as the key is turned on.

## **AMBULANCE MODE**

After putting the chip on the external caller, the cabin completes the last selection in the arrival stop and travels to the required stop, where it will wait for 60 seconds for the cabin selection to be made. If no selection is made, the mode is terminated. Upon making the selection, the elevator cabin executes one selection (it is possible to change the destination stop during the travel) and the mode is then terminated.



## **BED MODE**

The presence of a hospital bed is detected by several sensors installed in the ceiling of the elevator cabin. After activating the mode, the elevator deletes the existing requests using the sensors and waits for the destination stop to be selected on the cabin panel. When the request is executed, the elevator switches to normal operation automatically. The bed mode is indicated on the cabin panel display and the external position displays above the elevator doors.

## **VIP ACCESS MODE**

Each elevator can be programmed for each day of the week so that the elevator automatically switches from public access mode to authorized access mode depending on the time of day. For example, day/night mode, weekend mode, etc.

## **MODE FOR TRANSPORTING HAZARDOUS/INFECTIOUS MATERIAL**

The mode is activated by using a key on the platform. When the mode is activated, the selections which are already in memory are not deleted, but no new selections are registered. After executing the selections in memory, the cabin will arrive at the desired floor. The indication of the elevator call phase will be implemented via LEDs on the floor callers. Upon arrival at the floor, the elevator will wait for 60 seconds for the mode to activate. After activation, the mode symbol is displayed on the cabin panel and the floor displays above the doors. The activation key is pulled out in the active position. After loading the cargo and selecting the destination floor on the cabin panel, the travel to the selected stop is executed upon activating the key on the floor caller. Upon arrival at the destination stop, the door is closed and only after activating the key on the floor caller at the destination stop will the door be opened. The mode is terminated by using the key on the cabin panel.

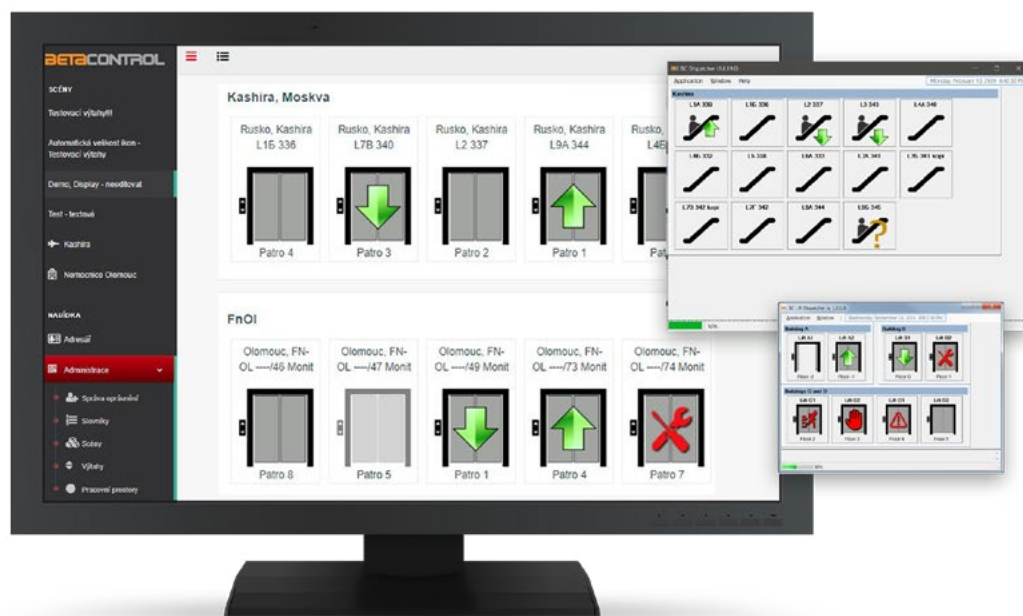
# Central Monitoring of Elevators in Hospital

## LEMON SW Application

In the hospital technical service centre, you can access the LEMON software application, which displays the current status of the elevators and enables the following functions:

- **information on the operational condition of the elevator** (position of the cabin, door status, direction of travel)
- **instant information about the elevator malfunction**
- **communication link between the centre and the cabin**
- **control of the display of current information on the cabin panel display for the duration of the travel or on individual floors**

The centre operator can remotely change the content of the information part of the cabin panel display. E.g., no visitors allowed, access with a mask only. For each floor, you can set to display information about on which floor a particular hospital ward is situated.



**BUILDING BMS USING THE MODBUS TCP/IP PROTOCOL:**

Beta Control elevators can be connected to the hospital BMS using the Modbus TCP/IP protocol and can transmit the following information:

- **information on the operational condition of the elevator** (position of the cabin, door status, direction of travel + information on the BMS screen)
- **instant information about the elevator malfunction** (information on the BMS screen)
- **remote parking of the elevator on the ground floor for testing the hospital's backup power supply** (button on the BMS surveillance console)
- **elevator reservation for emergency ambulance/helicopter** (button on the BMS surveillance console)

The centre operator can remotely switch the defined elevator to the AMBULANCE mode. The elevator will stop at the nearest stop and delete all selections. The elevator then goes to the admission floor, opens the doors and waits for a preset time for the patient and his/her attendants to enter. After selecting the destination station, the specified option is executed. It will automatically switch to standard mode once the selection has been executed. The building BMS must be prepared for this selection.





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