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ARCODE PARAMETER MENU

(P0001) Basic settings

(P0815) Basic settings -> Elevator description

This parameter keeps a text string which is used to identify elevator.

(P0839) Basic settings -> ARCODE Class

(P0550) Basic settings -> Menu level

Determines visibility of advanced parameters in the menu tree.

- Simple: Only frequently used parameters are visible in the menu tree.

- Advanced: All parameters are visible in the menu tree.

(P0002) Basic settings -> Number of floors

This parameter determines the number of stops in the elevator system.

(P0402) Basic settings -> Mains voltage (phase to phase)

This parameter sets the main supply voltage of the electricity network

which is used to supply elevator system.

(P0901) Basic settings -> Mains frequency

(P0292) Basic settings -> Operation mode

This parametre defines the operation of controller.

-       Only inspection mode: When this option is selected, the elevator can only be run in inspection or recall modes. For safety reasons, this option is selected in factory defaults. By this way, the elevator can only be operated in inspection or recall mode when it is set up and thus it does not receive commands. When this setting is active, the car does not land on the bottom floor to reset position and

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does not consider the calls. The message "O-in" (only-inspection) is displayed on
the 7-pieced screen of ARCODE.

-       Normal operation: After motor-tuning and shaft learning procedures are
completed, this option must be selected by the user to allow the elevator to
operate in normal service mode.

(P0776) Machine plate information

The parameters under this branch must be set according to the data given by the
machine/motor manufacturer. These data are usually found written on a metal plate
on the motor.

(P0229) Machine plate information -> Motor type

This parameter informs the Arcode about used type of motor. Synchronous or
Induction (Asynchronous) can be selected.

(P0150) Machine plate information -> Motor voltage

Nominal motor voltage is defined with this parameter. This value is given by the
motor manufacturer and shown on the machine plate.

(P0159) Machine plate information -> Nominal motor current

Nominal motor current is defined with this parameter. This value is given by the
motor manufacturer and shown on the machine plate.

(P0149) Machine plate information -> Nominal motor rpm

Nominal motor RPM (Revolution per minute) is defined with this parameter. This
value is given by the motor manufacturer and shown on the machine plate.

(P0711) Machine plate information -> Nominal motor rpm

Nominal motor RPM (Revolution per minute) is defined with this parameter. This
value is given by the motor manufacturer and shown on the machine plate.

(P0165) Machine plate information -> Nominal motor frequency

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Nominal motor supply frequency is defined with this parameter. This value is given by the motor manufacturer and shown on the machine plate.

(P0148) Machine plate information -> Nominal car speed

Nominal speed of the elevator machine is defined with this parameter. This value is given by the motor manufacturer and shown on the machine plate.

(P0430) Machine plate information -> No-load current

No-load current of the motor is defined with this parameter. This value is given by the motor manufacturer and shown on the machine plate. Too high value causes high motor current. Consequently motor heat rises and more power consumed. Too low value causes torque loss which shows itself as a vibration. Values of S3 and S4 are very critical values for the motor drive performance. Optimum value is where minimum motor current is obtained without vibration. For getting to this optimum values the elevator must run a few times and the motor current should be monitored.

(P0603) Machine plate information -> Nominal slip frequency

Nominal slip frequency of the motor is defined with this parameter. This value is given by the motor manufacturer and shown on the machine plate. This parameter is only available if the Motor Type is selected as Asynchronous.

(P0004) Driver settings

The parameters under this branch are related with the driver, motor and travel also requires to be adjusted by well-informed and experienced technicians.

(P0521) Driver settings -> Motor auto-tuning done

If the motor auto-tuning is done and the results are saved this parameter automatically set to "YES". If elevator system require to be auto-tuned from the beginning than this parameter should be set to "No".

(P0233) Driver settings -> Motor control type

This parameter is used to choose the motor control type. The control of the motor can be in open loop mode or in closed loop mode.

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(P0522) Driver settings -> Motor direction

After motor-tuning is completed, motor direction needs to be determined by the user.

To determine motor direction, the following procedure can be used:

-       Move the car by pressing UP button in inspection or recall modes.

-       Observe direction of movement of the car.

-       Move the car by pressing DOWN button in inspection or recall modes.

-       Observe direction of movement of the car.

-       If the car moved in correct direction in both tries, do not change this parameter value.

-       If the car moved in wrong direction in both tries, reverse this parameter value.

-       If the car moved in correct direction in one try and wrong direction in the other try, it means that Arcode could not drive the motor against the weight. Try increasing the Speed-PID Gain parameters and perform this procedure again.

(P0125) Driver settings -> Travel curve settings

Travel related speed and comfort setting parameters can be found under this branch. Travel curve is shortly a velocity/distance curve graph that is used to compute the speed values that the car will use during the travelling of elevator system. The sooner the elevator reaches to the maximum speed which is defined, the car will move with acceleration so much. Therefore the passengers will feel the car movement. Also the car will pass the distance between two floor levels in a shorter time. In the opposite case, by reaching the maximum speed late, the travel will be comfortable for the passengers but this time it will take a longer time.

(P0135) Driver settings -> Travel curve settings -> Maximum travel speed

This is the maximum speed that the car will move in normal operation mode.

In most cases, this value should be entered the same as "(P0148) Nominal car speed" parameter.

If for some reason, running the car with a slower speed is desired, this parameter might be decreased. (No other settings need to be changed)

Entering this parameter slightly bigger than (P0148) is also possible but not advised.

Note: This value must never be entered larger than the speed rating of the speed-governor.

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(P0142) Driver settings -> Travel curve settings -> Inspection mode speed

This is the maximum speed that the car will move in inspection and recall modes.

(P0596) Driver settings -> Travel curve settings -> Comfort level

This parameter determines the acceleration and jerk values used in calculation of the travel speed curves. There are 5 preset values in the form "Comfort:X / Performance:Y".

Comfort and performance are two contradicting criteria that must be considered when choosing the value of this parameter. In order to increase travel comfort, the accelerations during travel will need be decreased which will in turn lengthen the travel times. If shorter travel times are desired, accelerations will need to be increased which will in turn result in travels with less comfort.

For this reason, it is advised to use presets with high performance in buildings like shopping malls, busy office buildings and hospitals; and presets with high comfort in residential buildings where longer travel times are not very significant.

Note: Although not necessary in most cases, the "User defined" option can also be selected to have fine control on every aspect of the travel curve. In this case; acceleration, deceleration and 4 jerk values (P0219, P220, P221, P222, P223, P224) will also be displayed in the parameter tree and these values will need to be entered by the user.

(P0219) Driver settings -> Travel curve settings -> Acceleration (P)

This parameter is used to adjust acceleration of speed up when car started to move. High acceleration value can be uncomfortable for some passengers while it makes the travel duration shorten. This parameter enables only when the "Comfort Level Parameter" adjusted as "User defined".
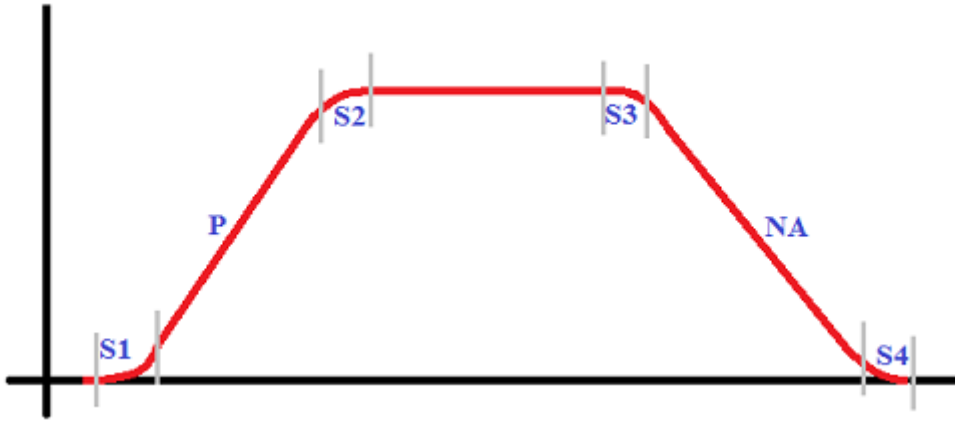
(P0220) Driver settings -> Travel curve settings -> Deceleration (NA)

This parameter is used to adjust acceleration of speed down when car approaching to its stop level. High deceleration value can be uncomfortable for some passengers while it makes the travel duration shorten. This parameter enables only when the "Comfort Level Parameter" adjusted as "User defined".
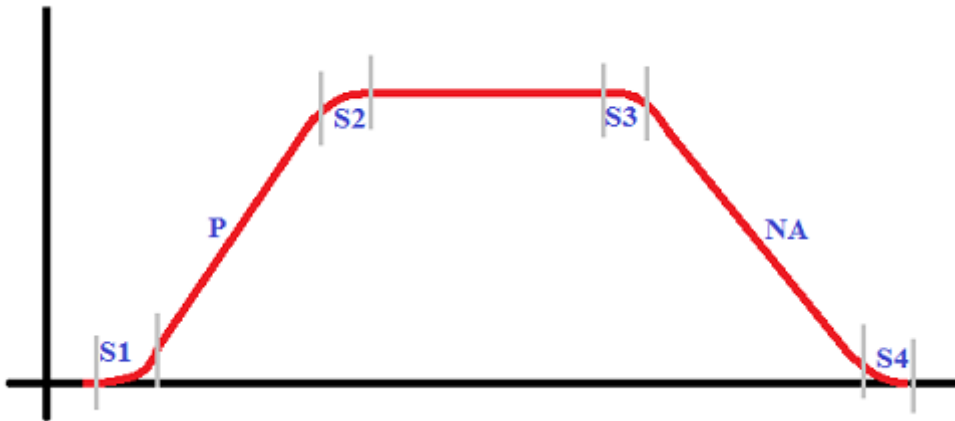
(P0221) Driver settings -> Travel curve settings -> Jerk-1 (S1)

This parameter is used to soft acceleration in the start of the speed up ramp in the travel curve. S1 jerk (Change in acceleration per second) shown in below drawing. This parameter enables only when the "Comfort Level Parameter" adjusted as "User defined".

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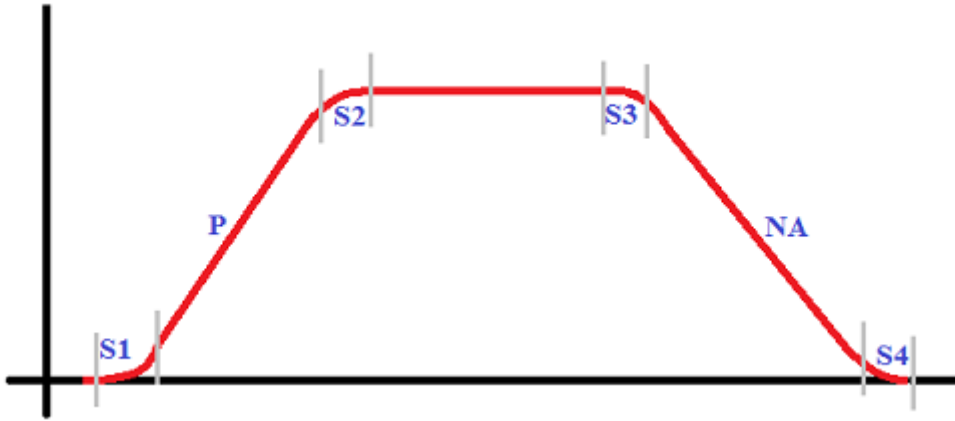
(P0222) Driver settings -> Travel curve settings -> Jerk-2 (S2)

This parameter is used to soft acceleration in the end of the speed up ramp in the travel curve. S1 jerk (Change in acceleration per second) shown in below drawing. This parameter enables only when the "Comfort Level Parameter" adjusted as "User defined".
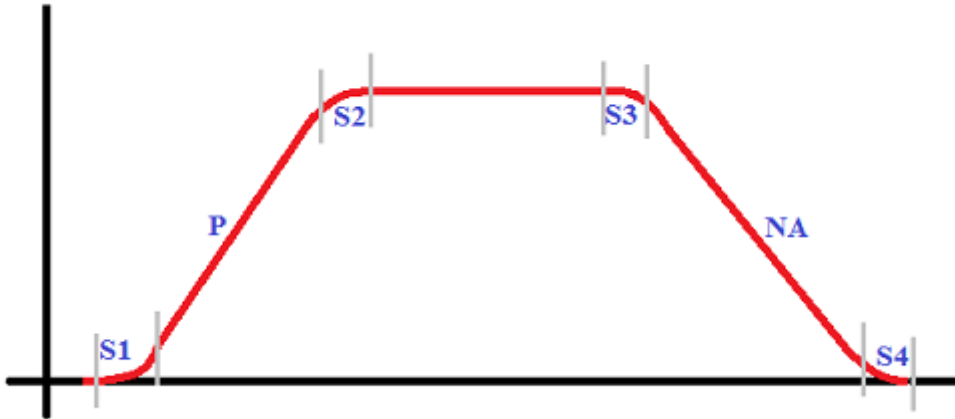
(P0223) Driver settings -> Travel curve settings -> Jerk-3 (S3)

This parameter is used to soft deceleration in the start of slowdown ramp in the travel curve. S1 jerk (Change in acceleration per second) shown in below drawing. This parameter enables only when the "Comfort Level Parameter" adjusted as "User defined".

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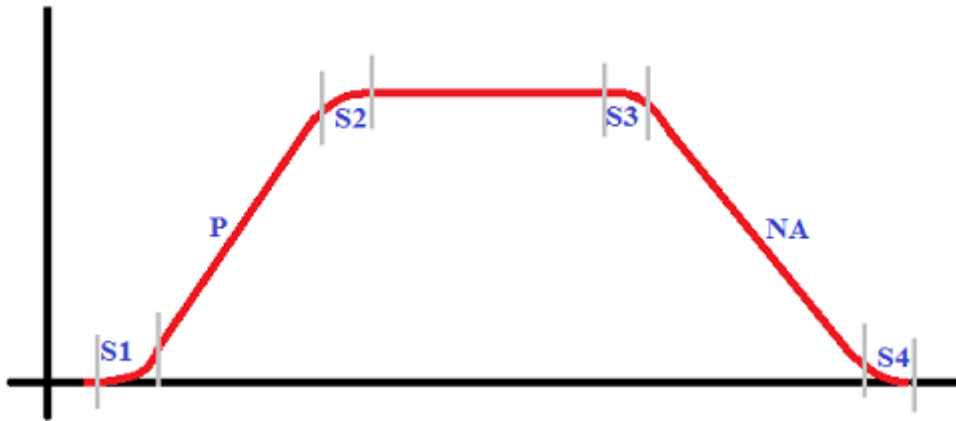
(P0224) Driver settings -> Travel curve settings -> Jerk-4 (S4)

This parameter is used to soft deceleration in the end of slowdown ramp in the travel curve. S1 jerk (Change in acceleration per second) shown in below drawing. This parameter enables only when the "Comfort Level Parameter" adjusted as "User defined".
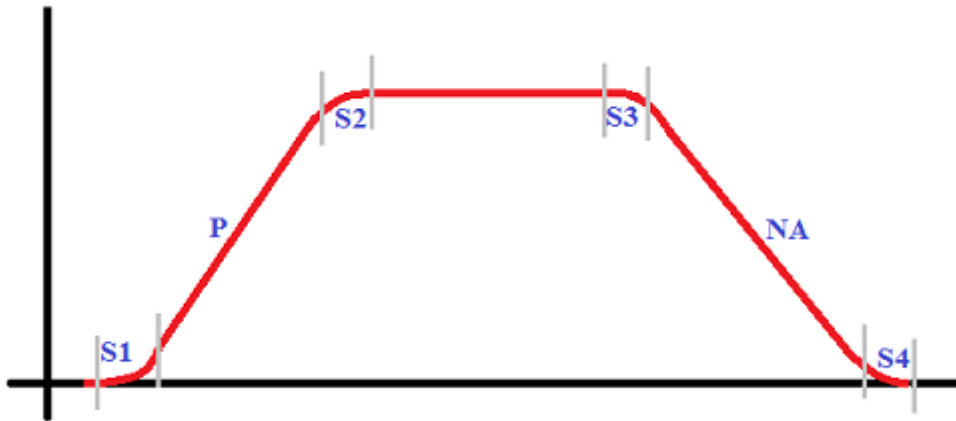
(P0350) Driver settings -> Travel curve settings -> Anti-rollback function

Anti-Rollback function is used to keep the elevator in stand still position from releasing of the brakes until the start of movement. This function creates enough force against to gravity by using motor to hold cabinet to prevent passengers feel falling down for a moment when the motor brakes are released. This function can be enabled or disabled by adjusting "On" or "Off".

(P0363) Driver settings -> Travel curve settings -> PID gains boost percent on anti-rollback

PID gain boost percent indicates strengthening factor for current PID coefficients of normal operation. Current PID coefficients are used in control loop for torque estimation. This parameter can be varies 0 to 100 and should be adjusted by competent person.

(P0779) Driver settings -> Travel curve settings -> Pre-torque function

Pre-torque function is support function for anti-rollback. Anti-rollback system, itself starts to hold elevator with no torque. Require torque is calculated with control loops in duration. Pre-torque function estimates required torque for anti-rollback function with the help of weighting sensor. This parameter enables and selects sensor type or disabled pre-torque function.

(P0342) Driver settings -> PID Control settings

This branch is contains all PID coefficient settings for the Arcode system.

(P0817) Driver settings -> PID Control settings -> Speed-PID gains

Speed PID gain settings branch. Speed-PID coefficients calculated by linear interpolation between zero speed and full speed coefficients.
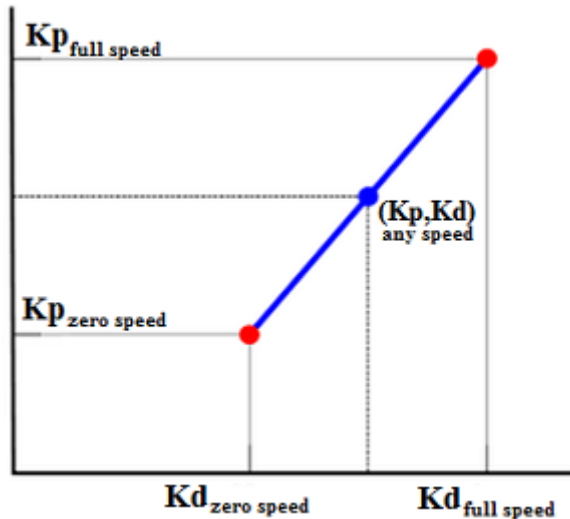
(P0387) Driver settings -> PID Control settings -> Speed-PID gains -> KP gain for Speed-PID (zero speed)

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Proportional term of the speed-PID control loop for zero speed can be adjusted via this parameter and can be set to any value from 0 to 99999. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.
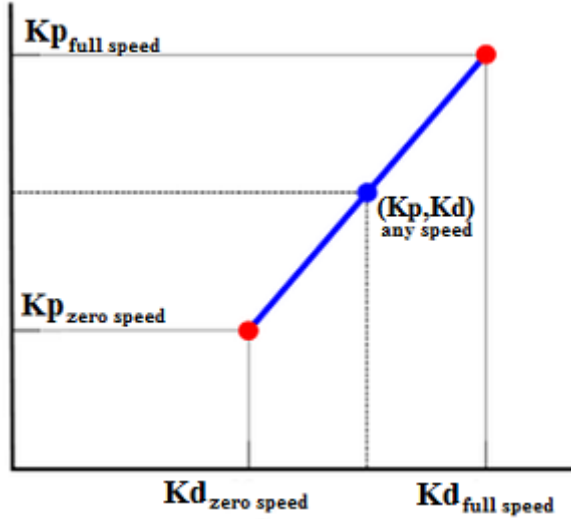
(P0388) Driver settings -> PID Control settings -> Speed-PID gains -> KI gain for Speed-PID (zero speed)

Integral term of the speed-PID control loop for zero speed can be adjusted via this parameter and can be set to any value from 0 to 99999. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.

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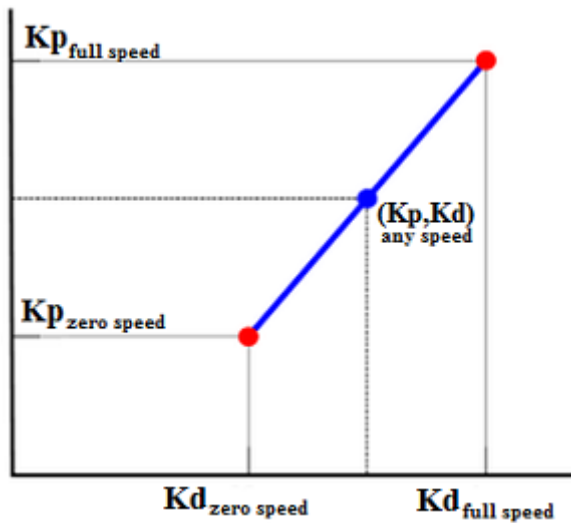
(P0420) Driver settings -> PID Control settings -> Speed-PID gains -> KP gain for Speed-PID (full speed)

Proportional term of the speed-PID control loop for full speed can be adjusted via this parameter and can be set to any value from 0 to 99999. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.
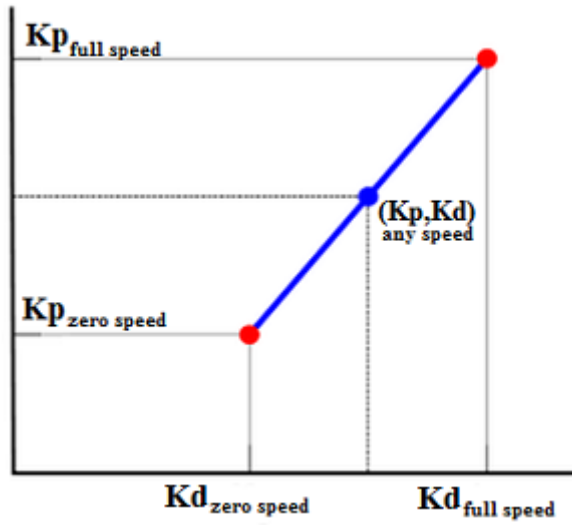
(P0421) Driver settings -> PID Control settings -> Speed-PID gains -> KI gain for Speed-PID (full speed)

Integral term of the speed-PID control loop for full speed can be adjusted via this parameter and can be set to any value from 0 to 99999. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.
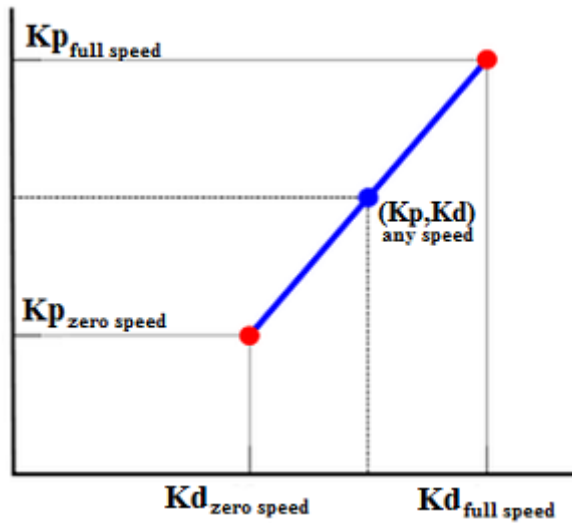
(P0899) Driver settings -> PID Control settings -> Speed-PID gains -> Motor-cogging compensation amplitude

(P0900) Driver settings -> PID Control settings -> Speed-PID gains -> Motor-cogging compensation angle

(P0818) Driver settings -> PID Control settings -> Current-PID gains

Current PID gain settings collected under this branch. Current-PID loop calculates required torque value for desired speed coming from the travel curve.

(P0352) Driver settings -> PID Control settings -> Current-PID gains -> KP gain for Current-PIDs

Proportional term of the current-PID control loop can be adjusted via this parameter and can be set to any value from 0 to 100000. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.

(P0353) Driver settings -> PID Control settings -> Current-PID gains -> KI gain for Current-PIDs

Integral term of the current-PID control loop can be adjusted via this parameter and can be set to any value from 0 to 100000. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.

(P0819) Driver settings -> PID Control settings -> Anti-rollback PID gains

Anti-Rollback PID settings contains two set of PID gains. One for speed-PID control loop and one current-PID control loop. Speed-PID control loop gains can be adjusted with direct value settings while current-PID control loop gains derived from normal operation current-PID gains with a boost factor.

(P0359) Driver settings -> PID Control settings -> Anti-rollback PID gains -> KP gain for Speed-PID on anti-rollback

Proportional term of the speed-PID control loop of anti-rollback function can be adjusted via this parameter and can be set to any value from 0 to 50000. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.

(P0360) Driver settings -> PID Control settings -> Anti-rollback PID gains -> KD gain for Speed-PID on anti-rollback

Integral term of the current-PID control loop of anti-rollback function can be adjusted via this parameter and can be set to any value from 0 to 50000. PID gain values have direct relation with the movement of the cabinet. While changing those values take the required precaution to prevent hazardous movement.

(P0597) Driver settings -> Brake and motor timings

This branch collects timing adjustments between motor and brake operation.

(P0336) Driver settings -> Brake and motor timings -> Mechanical brake opening time

This parameter sets the delay between opening of the brakes at the start of travels. During this period, the motor is held at zero speed and waits for the mechanical brake to free the motor. At the end of the period, the elevator begins accelerating.

Setting this parameter too short will cause Arcode to try to move the motor before the brake is released. This will be felt as a jump in the car at travel starts.

Setting this parameter too long will cause unnecessary delays before start of travels.

Note: This parameter also sets the duration of anti-rollback phase (if anti-rollback function is enabled)

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(P0337) Driver settings -> Brake and motor timings -> Mechanical brake closing time

This parameter sets the delay between stopping of the motor and closing of the brakes at the end of travels. During this period, the motor is held at

zero speed and waits for the mechanical brake to hold the motor.

Setting this parameter too short will cause the motor to release the car before brakes could lock the car in position. In this case, the car will start to move freely in the heavy direction until the brakes close.

Setting this parameter too long will cause unnecessary delays before opening the doors at the end of travels.

(P0645) Driver settings -> Brake and motor timings -> Motor deflux time

When the car reach to its stop level the breaks are closed while motor is kept as energized. In this situation brakes don't hold the car. If the motor energy cut suddenly it creates mechanical impact with a disturbing voice. To prevent this, motor energy is decreased and then cut in a predefined duration with this parameter. If this duration is too low then mechanical impact can be felt. If it is too long than doors opening is delayed. Parameter can be adjusted 0.1sec to 0.3 sec.

(P0234) Driver settings -> Motor voltage/frequency profile

In this branch open loop control voltage vs. frequency table can be found. These parameters can be activated if the motor type is adjusted as Asynchronous. The parameter under this branch forms a shape like below.

It looks like there are two different lines which has different gradients. This type of values can be necessary for some motors to achieve good start up. Gradient of the first line is higher to provide more torque by giving more voltage to the motor. Second line gradient is relatively lower because motor already starts to rotate and no need to apply higher voltage.

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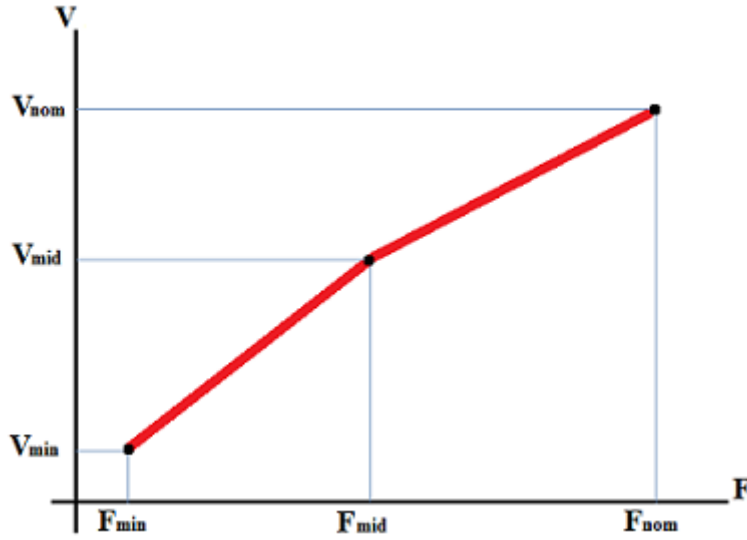
(P0247) Driver settings -> Motor voltage/frequency profile -> Middle frequency

This parameter determines approximately middle point frequency of the voltage-frequency table. The value varies between 1Hz and 25Hz.

(P0248) Driver settings -> Motor voltage/frequency profile -> Middle frequency voltage

This parameter determines approximately middle point voltage of the voltage-frequency table. The value varies between 10Volt and 100Volt.

(P0249) Driver settings -> Motor voltage/frequency profile -> Minimum frequency

This parameter determines approximately minimum point frequency of the voltage-frequency table. The value varies between 0Hz and 5Hz.

(P0250) Driver settings -> Motor voltage/frequency profile -> Minimum frequency voltage

This parameter determines approximately minimum point voltage of the voltage-frequency table. The value varies between 0Volt and 50Volt.

(P0124) Driver settings -> Motor encoder settings

Motor encoder related settings collected under this branch.

(P0868) Driver settings -> Motor encoder settings -> Encoder coupling type

(P0257) Driver settings -> Motor encoder settings -> Motor encoder pulse/rev

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This parameter defines how many pulse in generated in one turn of the motor rotor. 100pulses/rev to 10000pulses/rev encoders can be used. This parameter requires only for asynchronous motors.

(P0516) Driver settings -> Motor encoder settings -> Motor encoder offset

The encoder offset angle between the zero point of absolute encoder and the electrical zero point of motor winding for synchronous motors.

Before a normal operation of synchronous motor it is required to measure the encoder offset. This parameter is measured automatically by the inverter during auto tune.

After the auto tune process, note the value of this parameter. When the inverter need to be changed because of a failure, this parameter must be set to this value manually for the new inverter without performing a new auto tune process. The auto tune process must be performed when the relative position between motor and encoder changes.

(P0520) Driver settings -> Motor encoder settings -> Encoder type

Motor encoder type can be adjusted with this parameter which is activated only for synchronous motors. Most of the absolute encoder protocols are supported and can be pick up from the menu.

(P0519) Driver settings -> Motor encoder settings -> Encoder direction

This parameter can be used to change the encoder direction. If driver gives wrong direction error after the correct wiring of encoder in a closed-loop control, the connection of encoder phases must be reversed. Encoder's direction can also be reversed easily by using this parameter without making any wiring changes.

(P0726) Driver settings -> Motor encoder settings -> Encoder filter

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(P0874) Driver settings -> Motor encoder settings -> Reference angle-1

(P0875) Driver settings -> Motor encoder settings -> Reference angle-2

(P0876) Driver settings -> Motor encoder settings -> Pulse/rotor rev.

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(P0879) Driver settings -> Motor encoder settings -> Init Vq

(P0880) Driver settings -> Motor encoder settings -> Init Vd

(P0251) Shaft learning settings

The parameters under this branch are related with shaft, door positions and pre-limiters and also require to be adjusted by well-informed and experienced technicians.

(P0252) Shaft learning settings -> Shaft configuration

Shaft configuration data located under this branch.

(P0452) Shaft learning settings -> Shaft configuration -> Door-zone flag length

In Arcode system door zones are determined by long magnets called as door zone flags. Lengths of door zone flags are important because any length in the shaft based on door zone flag length. If door zone flag length is entered incorrect way, all lengths in the shaft will be calculated as wrong.

(P0830) Shaft learning settings -> Shaft configuration -> Distance between ML1-ML2 sensors

(P0459) Shaft learning settings -> Shaft configuration -> Number of flags below 817 pre-limiter

In some buildings there may be some floor zone magnets below 817 pre-limiter due to shaft and floor positions. Number of door zone flags below 817 pre-limiter should be adjusted with this parameter.

(P0591) Shaft learning settings -> Shaft configuration -> Number of flags above 818 pre-limiter

In some buildings there may be some floor zone magnets above 818 pre-limiter due to shaft and floor positions. Number of door zone flags above 817 pre-limiter should be adjusted with this parameter.

(P0258) Shaft learning settings -> Learned shaft values

After shaft learning parameter values under this branches adjusted to new learned values. Changing these parameters may affect elevator behavior.

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(P0443) Shaft learning settings -> Learned shaft values -> Shaft learning done

If the shaft learning is done and the results are saved, this parameter automatically set to "YES". If elevator system require new shaft learning than this parameter should be set to "No".

(P0703) Shaft learning settings -> Learned shaft values -> Door-zone top entry positions

After shaft learning door zone magnets positions while moving to downside is calculated and saved to these parameters.

(P0267) Shaft learning settings -> Learned shaft values -> Door-zone top entry positions -> Floor-$ doorzone entry from top

Positions can be adjusted for every floor.

(P0705) Shaft learning settings -> Learned shaft values -> Door-zone bottom entry positions

After shaft learning door zone magnets positions while moving to upside is calculated and saved to these parameters.

(P0509) Shaft learning settings -> Learned shaft values -> Door-zone bottom entry positions -> Floor-$ doorzone entry from bottom

Positions can be adjusted for every floor.

(P0309) Shaft learning settings -> Learned shaft values -> Shaft encoder pulse/cm multiplier

If a shaft encoder is used for the car position calculation how many pulses per centimeter data is needed to be given by this parameter. This information related with shaft encoder and can be found its technical specs.

(P0453) Shaft learning settings -> Learned shaft values -> 817 signal position

After shaft learning 817Pre-limiter position is calculated and saved to this parameter.

(P0454) Shaft learning settings -> Learned shaft values -> 818 signal position

After shaft learning 818Pre-limiter position is calculated and saved to this parameter.

(P0094) Programmable inputs

Most of the input terminals in Arcode system are programmable. These input terminals on the Arcode box and Arcode peripheral boards are assigned to input functions by using the parameters under this branch.

(P0095) Programmable inputs -> Arcode controller inputs

The programmable input terminals PI1-PI15 on the Arcode box are assigned to input functions by these parameters.

(P0096) Programmable inputs -> Arcode controller inputs -> Arcode controller PI$

The programmable input terminals PI1-PI15 on the Arcode box are assigned to input functions by these parameters.

(P0097) Programmable inputs -> IBC board inputs

The programmable input terminals PI1-PI12 on the IBC board are assigned to input functions by these parameters.

(P0524) Programmable inputs -> IBC board inputs -> IBC board PI$

The programmable input terminals PI1-PI12 on the IBC board are assigned to input functions by these parameters.

(P0099) Programmable inputs -> CPC board inputs

The programmable input terminals PI1-PI4 on the CPC board(s) are assigned to input functions by these parameters.

CPC boards are addressed with DIP-switch settings as follows:

DS1	DS2	DS3	DS4	
0	0	1	0	CPC-1A
0	1	1	0	CPC-2A
1	0	1	0	CPC-3A
0	0	0	1	CPC-1B
0	1	0	1	CPC-2B
1	0	0	1	CPC-3B
0	0	1	1	CPC-1AB
0	1	1	1	CPC-2AB
1	0	1	1	CPC-3AB

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(P0671) Programmable inputs -> CPC board inputs -> CPC-1A board inputs

The programmable input terminals PI1-PI4 on the CPC board set as 1A (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0478) Programmable inputs -> CPC board inputs -> CPC-1A board inputs -> CPC-1A board PI$

The programmable input terminals PI1-PI4 on the CPC board set as 1A (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0674) Programmable inputs -> CPC board inputs -> CPC-1B board inputs

The programmable input terminals PI1-PI4 on the CPC board set as 1B (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0479) Programmable inputs -> CPC board inputs -> CPC-1B board inputs -> CPC-1B board PI$

The programmable input terminals PI1-PI4 on the CPC board set as 1B (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0676) Programmable inputs -> CPC board inputs -> CPC-2A board inputs

The programmable input terminals PI1-PI4 on the CPC board set as 2A (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

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(P0480) Programmable inputs -> CPC board inputs -> CPC-2A board inputs -> CPC-2A board PI$

The programmable input terminals PI1-PI4 on the CPC board set as 2A (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0678) Programmable inputs -> CPC board inputs -> CPC-2B board inputs

The programmable input terminals PI1-PI4 on the CPC board set as 2B (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0481) Programmable inputs -> CPC board inputs -> CPC-2B board inputs -> CPC-2B board PI$

The programmable input terminals PI1-PI4 on the CPC board set as 2B (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0680) Programmable inputs -> CPC board inputs -> CPC-3A board inputs

The programmable input terminals PI1-PI4 on the CPC board set as 3A (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0482) Programmable inputs -> CPC board inputs -> CPC-3A board inputs -> CPC-3A board PI$

The programmable input terminals PI1-PI4 on the CPC board set as 3A (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0682) Programmable inputs -> CPC board inputs -> CPC-3B board inputs

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The programmable input terminals PI1-PI4 on the CPC board set as 3B (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0483) Programmable inputs -> CPC board inputs -> CPC-3B board inputs -> CPC-3B board PI$

The programmable input terminals PI1-PI4 on the CPC board set as 3B (by DIP-switches) are assigned to input functions by these parameters.

Note: For DIP-switch settings, see the help on "CPC Board Inputs" branch

(P0101) Programmable inputs -> BCX board inputs

The programmable input terminals PI1-PI2 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards are assigned to input functions by these parameters.

(P0683) Programmable inputs -> BCX board inputs -> BCX-A boards PI1 inputs

The programmable input terminals PI1 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the A-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0102) Programmable inputs -> BCX board inputs -> BCX-A boards PI1 inputs -> BCX-A$ board PI1

The programmable input terminals PI1 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the A-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0685) Programmable inputs -> BCX board inputs -> BCX-A boards PI2 inputs

The programmable input terminals PI2 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the A-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0486) Programmable inputs -> BCX board inputs -> BCX-A boards PI2 inputs -> BCX-A$ board PI2

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The programmable input terminals PI2 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the A-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0687) Programmable inputs -> BCX board inputs -> BCX-B boards PI1 inputs

The programmable input terminals PI1 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the B-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0103) Programmable inputs -> BCX board inputs -> BCX-B boards PI1 inputs -> BCX-B$ board PI1

The programmable input terminals PI1 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the B-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0689) Programmable inputs -> BCX board inputs -> BCX-B boards PI2 inputs

The programmable input terminals PI2 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the B-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0487) Programmable inputs -> BCX board inputs -> BCX-B boards PI2 inputs -> BCX-B$ board PI2

The programmable input terminals PI2 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards connected to the B-doors on floors 1 to 64 are assigned to input functions by these parameters.

(P0655) Programmable inputs -> IO0210 board inputs

IO0210 boards have 2 programmable inputs. An Arcode system can support up to 64 IO0210 board installed in a system. So total number of IO0210 board inputs reach to 128 programmable input. For Input definitions please refer to corresponding input help files.

(P0691) Programmable inputs -> IO0210 board inputs -> IO0210 boards PI1 inputs

The input terminal function of PI1 ports on different addressed IO0210 boards is programmed with this parameter. Board addresses need to be adjusted between 1 to 64 value.

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(P0656) Programmable inputs -> IO0210 board inputs -> IO0210 boards PI1 inputs -> IO0210-$ board PI1

The input terminal function of PI1 ports on different addressed IO0210 boards is programmed with this parameter. Board addresses need to be adjusted between 1 to 64 value.

(P0692) Programmable inputs -> IO0210 board inputs -> IO0210 boards PI2 inputs

The input terminal function of PI2 ports on different addressed IO0210 boards is programmed with this parameter. Board addresses need to be adjusted between 1 to 64 value.

(P0657) Programmable inputs -> IO0210 board inputs -> IO0210 boards PI2 inputs -> IO0210-$ board PI2

The input terminal function of PI2 ports on different addressed IO0210 boards is programmed with this parameter. Board addresses need to be adjusted between 1 to 64 value.

(P0760) Programmable inputs -> Virtual bridge board inputs

(P0761) Programmable inputs -> Virtual bridge board inputs -> Virtual bridge input-$

(P0965) Programmable inputs -> CPC-T IO mode

(P0966) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=0)

(P0970) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=0) -> CPC-T IO mode (ID=0) PI$

(P0967) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=1)

(P0971) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=1) -> CPC-T IO mode (ID=1) PI$

(P0968) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=2)

(P0972) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=2) -> CPC-T IO mode (ID=2) PI$

(P0969) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=3)

(P0973) Programmable inputs -> CPC-T IO mode -> CPC-T IO mode (ID=3) -> CPC-T IO mode (ID=3) PI$

(P0108) Programmable outputs

Most of the output terminals in Arcode system are programmable. These output terminals on the Arcode box and Arcode peripheral boards are assigned to output functions by using the parameters under this branch.

(P0109) Programmable outputs -> Arcode controller outputs

There are 2 types of outputs in Arcode main unit. Relay outputs and transistor outputs. Both are programmable and functions for outputs can be programmed with parameters under this branch.

(P0695) Programmable outputs -> Arcode controller outputs -> Arcode controller relay outputs

The relay output terminals PR1-PR3 on the Arcode box are assigned to output functions by these parameters.

(P0107) Programmable outputs -> Arcode controller outputs -> Arcode controller relay outputs -> Arcode controller PR$

The relay output terminals PR1-PR3 on the Arcode box are assigned to output functions by these parameters.

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(P0865) Programmable outputs -> Arcode controller outputs -> Arcode controller relay outputs -> Arcode controller PR4

The relay output terminals PR1-PR3 on the Arcode box are assigned to output functions by these parameters.

(P0696) Programmable outputs -> Arcode controller outputs -> Arcode controller transistor outputs

The transistor output terminals PT1-PT4 on the Arcode box are assigned to output functions by these parameters.

(P0471) Programmable outputs -> Arcode controller outputs -> Arcode controller transistor outputs -> Arcode controller PT$

The transistor output terminals PT1-PT4 on the Arcode box are assigned to output functions by these parameters.

(P0105) Programmable outputs -> IBC board outputs

The relay output terminals PR1-PR6 on the IBC board are assigned to output functions by these parameters.

(P0106) Programmable outputs -> IBC board outputs -> IBC board PR$

The relay output terminals PR1-PR6 on the IBC board are assigned to output functions by these parameters.

(P0111) Programmable outputs -> CPC board outputs

There are 2 outputs in every CBC board. One output is called as PO1 and the other called PT1. Both outputs are programmable and outputs functions can be programmed with parameters under this branch.

(P0530) Programmable outputs -> CPC board outputs -> CPC-1A board outputs

There are 2 outputs in every CBC board. One output is called as PO1 and the other called PT1. Both outputs are programmable and outputs functions can be programmed with parameters under this branch.

(P0538) Programmable outputs -> CPC board outputs -> CPC-1A board outputs -> PO1

For output definitions please refer to corresponding output help files.

(P0539) Programmable outputs -> CPC board outputs -> CPC-1A board outputs -> PT1

For output definitions please refer to corresponding output help files.

(P0531) Programmable outputs -> CPC board outputs -> CPC-1B board outputs

There are 2 outputs in every CBC board. One output is called as PO1 and the other called PT1. Both outputs are programmable and outputs functions can be programmed with parameters under this branch.

(P0540) Programmable outputs -> CPC board outputs -> CPC-1B board outputs -> PO1

For output definitions please refer to corresponding output help files.

(P0541) Programmable outputs -> CPC board outputs -> CPC-1B board outputs -> PT1

For output definitions please refer to corresponding output help files.

(P0532) Programmable outputs -> CPC board outputs -> CPC-2A board outputs

There are 2 outputs in every CBC board. One output is called as PO1 and the other called PT1. Both outputs are programmable and outputs functions can be programmed with parameters under this branch.

(P0542) Programmable outputs -> CPC board outputs -> CPC-2A board outputs -> PO1

For output definitions please refer to corresponding output help files.

(P0543) Programmable outputs -> CPC board outputs -> CPC-2A board outputs -> PT1

For output definitions please refer to corresponding output help files.

(P0533) Programmable outputs -> CPC board outputs -> CPC-2B board outputs

There are 2 outputs in every CBC board. One output is called as PO1 and the other called PT1. Both outputs are programmable and outputs functions can be programmed with parameters under this branch.

(P0544) Programmable outputs -> CPC board outputs -> CPC-2B board outputs -> PO1

For output definitions please refer to corresponding output help files.

(P0545) Programmable outputs -> CPC board outputs -> CPC-2B board outputs -> PT1

For output definitions please refer to corresponding output help files.

(P0534) Programmable outputs -> CPC board outputs -> CPC-3A board outputs

There are 2 outputs in every CBC board. One output is called as PO1 and the other called PT1. Both outputs are programmable and outputs functions can be programmed with parameters under this branch.

(P0546) Programmable outputs -> CPC board outputs -> CPC-3A board outputs -> PO1

For output definitions please refer to corresponding output help files.

(P0547) Programmable outputs -> CPC board outputs -> CPC-3A board outputs -> PT1

For output definitions please refer to corresponding output help files.

(P0535) Programmable outputs -> CPC board outputs -> CPC-3B board outputs

There are 2 outputs in every CBC board. One output is called as PO1 and the other called PT1. Both outputs are programmable and outputs functions can be programmed with parameters under this branch.

(P0548) Programmable outputs -> CPC board outputs -> CPC-3B board outputs -> PO1

For output definitions please refer to corresponding output help files.

(P0549) Programmable outputs -> CPC board outputs -> CPC-3B board outputs -> PT1

For output definitions please refer to corresponding output help files.

(P0112) Programmable outputs -> BCX board outputs

Any display or button board in Arcode system has 2 programmable outputs. An Arcode system can support up to 128 BCX board. So total number of BCX board outputs reach to 256. The programmable output terminals PO1-PO2 on BCD2X, BCD3X, BCLCD and BCBUT landing panel boards are programmable with output functions through the parameters under this branch.

(P0699) Programmable outputs -> BCX board outputs -> BCX-A boards PO1 outputs

The output terminal function of PO1 ports, on different addressed BCD2X, BCD3X, BCLCD and BCBUT landing panel boards programmed with these parameters. Output parameter of boards that located in every floor can be adjusted. Total number of parameters is limited to floor number of the installation. For output definitions please refer to corresponding output help files.

(P0113) Programmable outputs -> BCX board outputs -> BCX-A boards PO1 outputs -> BCX-A$ board PO1

The output terminal function of PO1 ports, on different addressed BCD2X, BCD3X, BCLCD and BCBUT landing panel boards programmed with these parameters. Output parameter of boards that located in every floor can be adjusted. Total number of parameters is limited to floor number of the installation. For output definitions please refer to corresponding output help files.

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(P0700) Programmable outputs -> BCX board outputs -> BCX-A boards PO2 outputs

The output terminal function of PO2 ports, on different addressed BCD2X, BCD3X,
BCLCD and BCBUT landing panel boards programmed with these parameters. Output
parameter of boards that located in every floor can be adjusted. Total number of
parameters is limited to floor number of the installation. For output definitions
please refer to corresponding output help files.

**(P0484) Programmable outputs -> BCX board outputs -> BCX-A boards PO2 outputs ->
BCX-A$ board PO2**

The output terminal function of PO2 ports, on different addressed BCD2X, BCD3X,
BCLCD and BCBUT landing panel boards programmed with these parameters. Output
parameter of boards that located in every floor can be adjusted. Total number of
parameters is limited to floor number of the installation. For output definitions
please refer to corresponding output help files.

(P0701) Programmable outputs -> BCX board outputs -> BCX-B boards PO1 outputs

The output terminal function of PO1 ports, on different addressed BCD2X, BCD3X,
BCLCD and BCBUT landing panel boards programmed with these parameters. Output
parameter of boards that located in every floor can be adjusted. Total number of
parameters is limited to floor number of the installation. For output definitions
please refer to corresponding output help files.

**(P0114) Programmable outputs -> BCX board outputs -> BCX-B boards PO1 outputs ->
BCX-B$ board PO1**

The output terminal function of PO1 ports, on different addressed BCD2X, BCD3X,
BCLCD and BCBUT landing panel boards programmed with these parameters. Output
parameter of boards that located in every floor can be adjusted. Total number of
parameters is limited to floor number of the installation. For output definitions
please refer to corresponding output help files.

(P0702) Programmable outputs -> BCX board outputs -> BCX-B boards PO2 outputs

The output terminal function of PO2 ports, on different addressed BCD2X, BCD3X,
BCLCD and BCBUT landing panel boards programmed with these parameters. Output
parameter of boards that located in every floor can be adjusted. Total number of
parameters is limited to floor number of the installation. For output definitions
please refer to corresponding output help files.

**(P0485) Programmable outputs -> BCX board outputs -> BCX-B boards PO2 outputs ->
BCX-B$ board PO2**

The output terminal function of PO2 ports, on different addressed BCD2X, BCD3X,
BCLCD and BCBUT landing panel boards programmed with these parameters. Output
parameter of boards that located in every floor can be adjusted. Total number of
parameters is limited to floor number of the installation. For output definitions
please refer to corresponding output help files.

(P0658) Programmable outputs -> IO0210 board outputs

Every IO0210 board has 10 programmable outputs and the Arcode system can support up to 64 IO0210 board installed in a system. However those outputs are not programmed one by one. Instead of programming every output, group assignment is done. The group contains 10 output functions which can identify whole outputs of single IO0210 board. There are 4 group can be defined with parameters under this branch. Defined output groups assigned to IO0210 boards by dip switches which are located on IO0210 boards. Please refer to IO0210 hardware manual for group assignment.

(P0664) Programmable outputs -> IO0210 board outputs -> IO0210 Group-1 outputs

Group-1 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

(P0660) Programmable outputs -> IO0210 board outputs -> IO0210 Group-1 outputs -> IO0210 board Group-1 PO$

Group-1 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

(P0666) Programmable outputs -> IO0210 board outputs -> IO0210 Group-2 outputs

Group-2 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

(P0661) Programmable outputs -> IO0210 board outputs -> IO0210 Group-2 outputs -> IO0210 board Group-2 PO$

Group-2 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

(P0668) Programmable outputs -> IO0210 board outputs -> IO0210 Group-3 outputs

Group-3 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

(P0662) Programmable outputs -> IO0210 board outputs -> IO0210 Group-3 outputs -> IO0210 board Group-3 PO$

Group-3 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

(P0670) Programmable outputs -> IO0210 board outputs -> IO0210 Group-4 outputs

Group-4 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

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(P0663) Programmable outputs -> IO0210 board outputs -> IO0210 Group-4 outputs -> IO0210 board Group-4 PO$

Group-4 of outputs are programmed with this parameter under this branch. There are 10 output functions can be programmed to the group. For output definitions please refer to corresponding output help files.

(P0762) Programmable outputs -> Virtual bridge board outputs

(P0763) Programmable outputs -> Virtual bridge board outputs -> Virtual bridge output-$

(P0005) Door settings

(P0052) Door settings -> Common door settings

The door settings under this branch affect both A and B doors.

(P0023) Door settings -> Common door settings -> Time to wait after photocell interruption

The door will stay opened during the value set in this parameter when one of the following events occur:

-       Photocell (light-curtain) interruption of the related door

-       Pressing the car command button of the current floor and related door-side

-       Pressing the landing call button of the current floor and related door-side

-       Activation of overload signal

-       Switching from inspection or recall to normal operation

(P0056) Door settings -> Common door settings -> Door state when idle on floor

-       Wait with doors closed: When this choice is selected, the door is opened after the car landed on the target floor. When the door was opened fully, door-close timer is set to "(P0022) Time to Wait Loading/Unloading". After this timer expired, the door is closed and unless any command is given to open the door (car command or hall call, door-open button, photocell or overload signals) it waits with doors closed.

Note: This parameter is only available for full automatic doors. Even this choice is selected, semi-automatic doors always wait with doors opened.

-       Wait with doors opened: The door is opened after the car landed on the target floor. When the door was opened fully, door-close timer is set to "(P0022) Time to Wait Loading/Unloading". After this timer expired, if there is no call from any floor the door continues to wait with doors opened. Unless the door-close timer expired, the door is not closed even if there is a call from any floor.

(P0053) Door settings -> Common door settings -> Door contacts settling time

When doors are closed it is possible to have signal discontinuities due to the mechanical movement of door lock. To prevent this, a settling timeout can be entered just to wait end of close movement. This timeout value programmed through this parameter.

(P0054) Door settings -> Common door settings -> Pause time before door reversal

If the door needs to be closed while opening or if it needs to be opened while closing, a pause set by this parameter will be given before reversing the door. Neither open nor close command will be sent to the door controller during this pause. This prevents from suddenly reversing the direction of the door which might damage the door mechanism.

(P0055) Door settings -> Common door settings -> Door action when 120 is off

This parameter determines the behaviour of the doors when safety-circuit (120) is interrupted.

- Operates normally: Doors continue operation even if safety-circuit is interrupted.

- Keeps its current position: Neither open nor close command will be sent to the doors when safety-circuit (120) is interrupted.

(P0528) Door settings -> Common door settings -> Door-close button delay

This parameter stores the delay time to ignore the door close button function. This timer starts counting when door starts opening and at the end of this delay time controller operates door close button.

Note: It is adviced that this parameter should be entered as the time required so that the passengers in outside can pass from the door photocell after opening the door.

(P0553) Door settings -> Common door settings -> Open delay after ret.cam release

This parameter is useful for the doors which have an electrical locking mechanism.

After landing on a floor, the retiring cam(LIR) will immediately be released but the door open command will be delayed during the value set in this parameter.

The parameter can be set to zero if a delay between retiring cam release and door opening is not required.

(P0555) Door settings -> Common door settings -> Disabling a constantly interrupted photocell

If a door photocell (light-curtain) is interrupted constantly during the period set by this parameter, the photocell interruption will be ignored and a slowly-close command will be sent to the doors alongside a close-command.

Note: Setting the value zero to this parameter will disable this function.

(P0955) Door settings -> Common door settings -> Door holding button function

(P0957) Door settings -> Common door settings -> Door holding time

(P0231) Door settings -> Door-A types

The types of the doors on the A-side are set by these parameters.

(P0007) Door settings -> Door-A types -> Are all A-Doors the same type

This parameter defines that all A side door types are in same type which is defined with "P0008: Types of all A-Doors parameter". Otherwise all door types need to be defined with "P0091: Floor-$ Door-A type" parameter.

(P0008) Door settings -> Door-A types -> Type of all A-Doors

Select all A side door types with this parameter.

-       No door: There is no door on A side.

-       Semi-Automatic: All A side doors are semi-automatic.

-       Full Automatic: All A side doors are full automatic.

-       Manual door: All A side doors are manually operated

Note: This parameter is only displayed when parameter (P0007) is selected as "Yes".

(P0091) Door settings -> Door-A types -> Floor-$ Door-A Type

In this parameter the door types are defined seperately for every floor.

-       No door: There is no door on A side of Floor-$.

-       Semi-Automatic: A side door of Floor-$ is semi-automatic.

-       Full Automatic: A side door of Floor-$ is full automatic.

Note: This parameter is only displayed when parameter (P0007) is selected as "No".

(P0012) Door settings -> Door-A settings

(P0013) Door settings -> Door-A settings -> Door-A limit switches

This parameter used to inform system about door limit switch is installed or not.

(P0015) Door settings -> Door-A settings -> Door-A limit switch function

This parameter is used to select door limit switch function. It can be used as just for sensing in fire mode or it can be used for cutting open or close signal automatically.

(P0016) Door settings -> Door-A settings -> Door-A normal opening time

Measured door opening time need to be entered to this parameter to take into calculations of Arcode.

(P0017) Door settings -> Door-A settings -> Door-A normal closing time

Measured door closing time need to be entered to this parameter to take into calculations of Arcode.

(P0018) Door settings -> Door-A settings -> Door-A magnetic lock drops

Magnetic lock can be dropped in two ways. One is dropping immediately when car arrives to any floor and second is after the doors are opened.

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(P0232) Door settings -> Door-B types

The types of the doors on the B-side are set by these parameters.

(P0010) Door settings -> Door-B types -> Are all B-Doors the same type

This parameter defines that all B side door types are in same type which is defined with "P0011: Types of all B-Doors parameter". Otherwise all door types need to be defined with "P0092: Floor-$ Door-B type" parameter.

(P0011) Door settings -> Door-B types -> Type of all B-Doors

Select all B side door types with this parameter.

-       No door: There is no door on B side.

-       Semi-Automatic: All B side doors are semi-automatic.

-       Full Automatic: All B side doors are full automatic.

-       Manual door: All B side doors are manually operated

Note: This parameter is only displayed when parameter (P0010) is selected as "Yes".

(P0092) Door settings -> Door-B types -> Floor-$ Door-B Type

In this parameter the door types are defined seperately for every floor.

-       No door: There is no door on B side of Floor-$.

-       Semi-Automatic: B side door of Floor-$ is semi-automatic.

-       Full Automatic: B side door of Floor-$ is full automatic.

-       Manual door: B side door of Floor-$ is manually operated

Note: This parameter is only displayed when parameter (P0010) is selected as "No".

(P0019) Door settings -> Door-B settings

(P0020) Door settings -> Door-B settings -> Door-B limit switches

This parameter used to inform system about door limit switch is installed or not.

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(P0048) Door settings -> Door-B settings -> Door-B limit switch function

This parameter is used to select door limit switch function. It can be used as just for sensing in fire mode or it can be used for cutting open or close signal automatically.

(P0049) Door settings -> Door-B settings -> Door-B normal opening time

Measured door opening time need to be entered to this parameter to take into calculations of Arcode.

(P0050) Door settings -> Door-B settings -> Door-B normal closing time

Measured door closing time need to be entered to this parameter to take into calculations of Arcode.

(P0051) Door settings -> Door-B settings -> Door-B magnetic lock drops

Magnetic lock can be dropped in two ways. One is dropping immediately when car arrives to any floor and second is after the doors are opened.

(P0030) Door settings -> Door protection settings

Protection and monitoring functions about the doors are enabled/disabled/adjusted by the parameters inside this branch.

(P0033) Door settings -> Door protection settings -> Number of unjamming tries

While a close command is being sent to the doors, if 140 signal is still off after the period set by the related door closing time parameter plus 5 seconds, the door will be opened and tried to be closed again.

After number of retries set by this parameter, a "door cannot be closed" error will be raised.

(P0068) DBR board functions

Door bridging board related parameters can be found under this branch. Door bridging board is required for door pre-opening and re-leveling features.

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(P0069) DBR board functions -> Door safety circuit bridging board

This parameter is used to inform the system whether DBR board installed or not installed.

(P0070) DBR board functions -> Door pre-opening settings

Door pre-opening related parameters can be found under this branch.

(P0071) DBR board functions -> Door pre-opening settings -> Door pre-opening function

This parameter is used to enable/disable door pre-opening function.

(P0072) DBR board functions -> Door pre-opening settings -> Door pre-opening start distance

This parameter is used to adjust door pre-opening start distance to actual floor level. Distance is varied 0 to 20cm.

(P0074) DBR board functions -> Releveling settings

Re-leveling related parameters can be found under this branch.

(P0075) DBR board functions -> Releveling settings -> Releveling function

This parameter is used to enable/disable Re-leveling function. If it is needed to be enabled than measurement equipment is required. Measurement equipment can be selected as 141-142 signals or magneto board which is special equipment for re-leveling.

(P0790) DBR board functions -> Releveling settings -> Releveling distance

This parameter is used only when "Relevelling function" parameter is set to the value "Relevel using 141-142 signals".

In this mode, 10 cm bar-magnets and two magnetic sensors (141, 142) are installed precisely at the floor position.

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When the car stops on a landing, both sensors need to be active as shown in the diagram below.
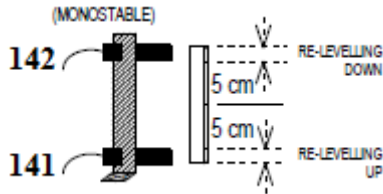
On long shafts, the car may drift upwards or downwards (due to elasticity of the rope) when the load inside the car is changed.

If this drift exceeds the minimum relevelling distance determined by the size and positioning of the relevelling magnets,

one of the sensors (141 or 142) will turn off and Arcode will relevel the car by moving it up or down by a constant distance.

This parameter sets the described constant relevelling distance.

(P0809) DBR board functions -> Releveling settings -> Releveling start distance

This parameter is used when the Magneto board is used as re-leveling equipment.
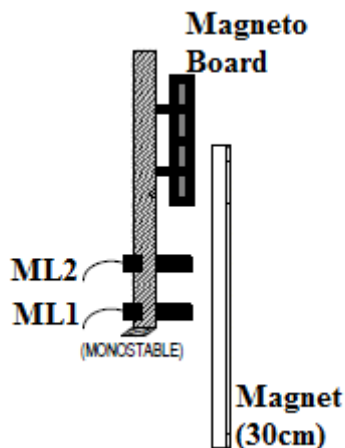
(P0823) DBR board functions -> Releveling settings -> Manyeto sensor orientation

Magneto sensor can be installed in any direction. This parameter is requires to determine which side is in upper position.

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(P0794) DBR board functions -> Releveling settings -> Relevelling speed

(P0059) Display settings

This branch contains display text message as well as floor sign which are shown on the LOPs and COPs.

(P0598) Display settings -> Floor signs

This branch contains floor name settings.

(P0831) Display settings -> Floor signs -> Floor sign settings

(P0461) Display settings -> Floor signs -> Floor-$ sign

Floor short name (maximum 2 characters) can be defined with these parameters.

(P0060) Display settings -> Dot-matrix display settings

The settings related with the displays which are capable to show sliding strings. Definition of strings for different messages can be programmed through parameters under this branch.

(P0764) Display settings -> Dot-matrix display settings -> Dot-matrix displays language

With this parameter, user defined texts or default texts in supported languages can be programmed.

(P0431) Display settings -> Dot-matrix display settings -> Out-of-service text

The text string which will be shown while the lift is out of service is programmed with this parameter. Default message in English is "Out of service". Maximum characters count is 25. This parameter item only enabled when the Dot-matrix display language parameter is adjusted as user defined texts.

(P0432) Display settings -> Dot-matrix display settings -> Overloaded text

The text string which will be shown while the lift is overloaded is programmed with this parameter. Default message in English is "Overloaded". Maximum characters count is 25. This parameter item only enabled when the Dot-matrix display language parameter is adjusted as user defined texts.

(P0523) Display settings -> Dot-matrix display settings -> Maintenance mode text

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The text string which will be shown while the lift is either in inspection mode or in recall mode is programmed with this parameter. Default message in English is "Under maintenance". Maximum characters count is 25. This parameter item only enabled when the Dot-matrix display language parameter is adjusted as user defined texts.

(P0631) Display settings -> Dot-matrix display settings -> Fire evacuation message

The text string which will be shown while the lift is fire mode is programmed with this parameter. Default message in English is "Fire!!!" Maximum characters count is 25. This parameter item only enabled when the Dot-matrix display language parameter is adjusted as user defined texts.

(P0765) Display settings -> Dot-matrix display settings -> Backup power evacuation text

The text string which will be shown while the lift is in evacuation mode is programmed with this parameter. Default message in English is "Evacuating". Maximum characters count is 25. This parameter item only enabled when the Dot-matrix display language parameter is adjusted as user defined texts.

(P0766) Display settings -> Dot-matrix display settings -> Startup text

The text string which will be shown while the lift is waking up for system reset is programmed with this parameter. Default message in English is "Please wait... ". Maximum characters count is 25. This parameter item only enabled when the Dot-matrix display language parameter is adjusted as user defined texts.

(P0767) Display settings -> Dot-matrix display settings -> Door open error text

The text string which will be shown while there is a door which cannot closed is programmed with this parameter. Default message in English is "Doors cannot close". Maximum characters count is 25. This parameter item only enabled when the Dot-matrix display language parameter is adjusted as user defined texts.

(P0888) Display settings -> Dot-matrix display settings -> Text to display on LOPs in priority service

(P0889) Display settings -> Dot-matrix display settings -> Text to display on COP in priority service

(P0837) Display settings -> Dot-matrix display settings -> Display a text when idle

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(P0838) Display settings -> Dot-matrix display settings -> Text to display when idle

(P0062) Display settings -> Dot-matrix display settings -> Direction arrow sliding speed

This parameter adjusts the speed of sliding direction arrow on the displays. Speed parameter can be very slow, slow, normal, fast and very fast.

(P0063) Display settings -> Dot-matrix display settings -> Floor number indication sliding speed

This parameter adjusts the speed of sliding floor number on the displays. Speed parameter can be very slow, slow, normal, fast and very fast.

(P0064) Display settings -> Dot-matrix display settings -> Floor number indication sliding direction

This parameter adjusts the direction of sliding floor number on the displays. Sliding direction can be movement direction or opposite of movement direction.

(P0065) Display settings -> Gray / Binary code settings

Gray/binary code settings are kept in this branch.

(P0066) Display settings -> Gray / Binary code settings -> Gray / Binary code start number

Gray/binary code start numbers can be adjusted with this parameter.

(P0021) Call service settings

This branch contains service settings for calls.

(P0022) Call service settings -> Time to wait for loading/unloading

After landing on a floor, the door will open. After the door is fully opened, an internal timer will be set to the value entered in this parameter. The door stays opened until the internal timer is expired. When the timer expires, the door will close or stay opened depending on the option selected on parameter (P0056).

Note1: The table below shows the events causing the internal door timer to be set again. If the current timer value is bigger than the set value, the timer value will not be changed.

```
Event                       Set value
--------------------------- ----------
```

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```
Landing on a floor          (P0022)

Photocell interuption       (P0023)

Overload signal             (P0023)

Pressing of door open button (P0023)

Call or cmd. from cur. floor (P0023)
```

Note2: As an exception, pressing of door-close button will set the internal door timer to zero.

(P0024) Call service settings -> Collection mode

(See help on options of this parameter)

(P0026) Call service settings -> Fake call detection by using photocell

All car calls will be cleared if the photocell does not trigger for the set number of stops. This parameter helps prevent unnecessary drives caused by car calls.

(P0027) Call service settings -> Maximum number of allowed COP calls

Maximum permitted number of car calls acknowledged at a time. This parameter helps prevent unnecessary drives caused by car calls. A reasonable number is the specified maximum number of passengers.

(P0028) Call service settings -> Cancelling COP calls on second press

Allowing to cancel car command by pressing to the same button for twice.

(P0607) Special elevator functions

Special elevator function like fire mode, parking etc. related parameters are located under this branch.

(P0610) Special elevator functions -> Parking function settings

Parking related parameters are programmed under this branch.

(P0621) Special elevator functions -> Parking function settings -> Parking function

Parking function can be enabled or disabled with this parameter. Other parameters are activated if the parking is enabled with this parameter.

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(P0629) Special elevator functions -> Parking function settings -> Time to wait before parking

Parking is started after determined duration without any activity. The time duration is programmed with this parameter. It can be adjusted 1 to 9999 seconds.

(P0942) Special elevator functions -> Parking function settings -> Park floor selection method

(P0628) Special elevator functions -> Parking function settings -> Park floor

This parameter defines the parking floor. Any floor in the installation can be programmed as parking floor.

(P0943) Special elevator functions -> Parking function settings -> Park floors inside time zones

(P0945) Special elevator functions -> Parking function settings -> Park floors inside time zones -> Park floor for time zone-$

(P0947) Special elevator functions -> Parking function settings -> Park floors inside time zones -> Park floor when outside of all time zones

(P0881) Special elevator functions -> Priority service function

Priority Service Function starts by getting signal from any of the programmable inputs of (PRIA.x) or (PRIB.x). (x: the floor number of priority service call)

Output (PRAC) becomes active as long as the function is active. According to the following parameter choices the car is send to "floor x" directly or after completing all the car calls.

While landing on the floor, the lift quits from priority service function whenever the conditions defined again with parameters are provided.

During priority service function;

- All the hall call buttons are cancelled.

- The LEDs of the car command button and the hall call button on "floor x" light.

- The message which indicates being active of priority service function is shown on all the displays. The separate messages (pictures if it is LCD display) can be adjusted for the hall displays and the car displays. (This option is not available for the displays as Liftmedia type.)

(Priority service function is cancelled by taking an error from the controller; by operating with inspection mode, recall mode, evacuation electrically, fire and earthquake mode)

(P0890) Special elevator functions -> Priority service function -> Priority service function

This opens or closes the priority service function. If this function opens with only Arcode Basic model, the error called "Limited Feature" is received.

  – Disabled

  – Enabled

(P0882) Special elevator functions -> Priority service function -> Existing car calls in priority service

This parameter determines what will be made about existing car commands when priority service function is triggered. Hall calls are cancelled in every case.

  – Existing car calls are cancelled:

  Existing car commands are cancelled and new call can not be given.

  – Existing car calls are not cancelled, new call is not received:

  Existing car commands are not cancelled however, new call can not be given as well. The car lands on the priority service call floor after there are no car commands by performing all of the car commands.

(P0883) Special elevator functions -> Priority service function -> Car behavior in priority service

–   Stop and open doors on nearest floor:

  If the car is moving when priority service function is triggered, the car stops on the first possible floor and opens the doors. It lands on the priority service call floor directly by closing the doors after the waiting on the normal floor by the time to wait for operating.

–   Do not stop and receive the prior call:

  If the car is moving towards the floor where it is called for priority service when the priority service function is triggered, it continually lands on the priority service call floor.

  If the car is moving in the opposite direction when the priority service function is triggered, it stops on nearest floor and starts to move in the other direction without opening the doors and lands on the priority service call floor.

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However, if parameter (P0882) is chosen as "Existing car calls are not cancelled, new call is not received", regardless of parameter (P0883) it lands on the floors which have existing car commands and the doors are open.

(P0884) Special elevator functions -> Priority service function -> Returning to normal on arrival to priority call

- Immediately back to normal service

The car immediately returns the normal service after opening the doors by arriving the priority service call floor.

- Only With Vatman Key

The car lands on the priority service call floor, opens the doors and waits with open doors. The vatman key in the car need to be active due to cancel the priority service mode of the car. When the vatman key is active, only the car commands are considered and the car waits with open doors on the floor as long as there is no car command. The lift returns to normal service when vatman key is closed again.

The vatman key must be assigned to the programmable input called "97: (VAT) Vatman signal".

- With Vatman Key or at Time Limit

It works same with option "Only with vatman key". However, during the time limit which is defined in parameter (P0886), although the car waits on priority service call floor if vatman key is not turned, the car turns to the normal service at the end of time.

- If There Is a Car Command

It works same with option "Only with vatman key". In addition, the car turns to the normal service by pushing any of the floor call button in the car, as well.

(P0886) Special elevator functions -> Priority service function -> Time limit to stay in priority call floor
This parameter is displayed if parameter (P0884) is chosen as "with vatman key or at time limit". It defines time limit.

(P0917) Special elevator functions -> Panic evacuation function

(P0920) Special elevator functions -> Panic evacuation function -> Evacuation floor on panic mode

(P0919) Special elevator functions -> Panic evacuation function -> Audible alarm on panic mode

(P0937) Special elevator functions -> Out of service function

(P0938) Special elevator functions -> Out of service function -> Out of service function activation

(P0939) Special elevator functions -> Out of service function -> Doors when OOS function is active

(P0941) Special elevator functions -> Out of service function -> OOS function parking floor

(P0974) Special elevator functions -> Out of service function -> Existing car calls before OOS function is active

(P0952) Special elevator functions -> 'Door Open' warning function

(P0951) Special elevator functions -> 'Door Open' warning function -> 'Door Open' warning type

If one of the doors in the current floor is of "semi-auto" or "manual-door" type;

an audible warning can be given while the door is open and a LOP call-button from another floor is being pressed.

Behaviour of the controller in the above-described case can be set using this parameter.

Options for this parameter are:

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- No audible warning:

Function is disabled.

- Only (MDOA) programmable output:

(MDOA) output is activated. User can connect his/her own alarm device to this output.

- Audible alarm on cartop box and (MDOA):

An alarm is sounded using the speaker on connected to IBC board. (MDOA) is also activated.

- Audible warning inside car and (MDOA):

The over-load warning of CPC board is sounded. (MDOA) is also activated.

(P0954) Special elevator functions -> 'Door Open' warning function -> Minimum delay before warning

(P0961) Special elevator functions -> PLC module

(P0962) Special elevator functions -> PLC module -> PLC module

(P0085) Group settings

(P0086) Group settings -> Group identity

This parameter is used to identify every controller in the group for inter group communication purposes. Each identifier should be used just one time in the group. Otherwise group will not function as expected. Current controller identifier can be programmed with this parameter.

(P0087) Group settings -> Bottom missing floors

Although floor numbers are equal beyond both controllers in a group, this parameter is used to restrict floor numbers for the related controller from bottom side. For

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example; if this parameter is set to 2, first 2 floors will not be serviced by this controller although serviced by other controllers in the group.

(P0088) Group settings -> Top missing floors

Although floor numbers are equal beyond both controllers in a group, this parameter is used to restrict floor numbers for the related controller from up to down side. For example; if this parameter is set to 6, upper floors from 6th floor will not be serviced by this controller although serviced by other controllers in the group.

(P0089) Group settings -> Time to disconnect from group

Disconnection from the group is a function that keeps all floors serviceable. If an elevator in the group cannot move to other floors for any reason and just waits at a floor, this floor is never serviced by other group elevators. To prevent this, elevator that has a problem, is disconnected from the group after specified time duration. This time duration can be specified by this parameter for the related elevator.

(P0462) Sounds and alerts

Sounds and alerts at cabinet and floors are adjusted with the parameters under this branch.

(P0463) Sounds and alerts -> COP floor chime

This parameter is enable/disable chime playback in the cabinet with COP when arrive to any floor.

(P0465) Sounds and alerts -> LOP floor chimes

This parameter is enable/disable chime playback in the floor with LOP when arrive to any floor.

(P0466) Sounds and alerts -> Overload alert

This parameter is enable/disable alarm playback in the cabinet when overload conditions.

(P0467) Sounds and alerts -> COP button press sounds

This parameter is enable/disable key press sound on the COP.

(P0469) Sounds and alerts -> LOP button press sounds

This parameter is enable/disable key press sound on the LOPs.

(P0470) Sounds and alerts -> Floor chime type

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Generally, passengers are informed with a type of ding-dong sounds on floor arrivals. The shape of this sounds in configurable with this parameter. Configurations are listed below.

-        Two sounds (ding-dong): Ding dong sound at every arrival.

-        Up ding, down two sounds (ding-dong): Arrivals with upside travels are informed with only Ding sound. Arrivals with down travels are informed with ding-dong.

-        Down ding, up two sounds (ding-dong): Arrivals with down travels are informed with only Ding sound. Arrivals with upside travels are informed with ding-dong.

-        Up ding, down dong: Arrivals with upside travels are informed with only ding sound while arrivals with down travels are informed with dong.

-        Down ding, up dong: Arrivals with down travels are informed with only ding sound while arrivals with up travels are informed with dong.

(P0867) Sounds and alerts -> Audible alarm on nudging

(P0029) Protection and monitoring settings

Parameters about monitoring and protection of elevator components are inside this branch.

(P0035) Protection and monitoring settings -> Motor protection settings

Protection and monitoring functions about the motor are enabled/disabled/adjusted by the parameters inside this branch.

(P0036) Protection and monitoring settings -> Motor protection settings -> Motor temperature monitoring

Motor and control cabinet temperature are can be monitored by temperature sensors connected to T1-T2 terminals on the Arcode box.

This parameter enables or disables the monitoring function.

(P0429) Protection and monitoring settings -> Motor protection settings -> Motor overcurrent limit

A motor draws more that %100 of nominal current at start up. This parameter adjusts a limit value which is used to protect motor by limiting start up current. If motor is overloaded and draws more current than expected limit value it is stopped immediately.

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(P0040) Protection and monitoring settings -> Mains power monitoring settings

(P0041) Protection and monitoring settings -> Mains power monitoring settings -> Phase sequence monitoring

Motors are sensitive devices to connection order of 3 phase alternative current supply lines. If any problem in order is detected, motor is not powered any more.

(P0043) Protection and monitoring settings -> Other protection settings

(P0044) Protection and monitoring settings -> Other protection settings -> Maximum allowed time of travel between floors

This parameter determines the maximum period the motor can be run without passing any door-zones. Enforced by the elevator standards, this value can be set to at most 45 seconds.

Note: In case the distance between two door-zones are too long to be passed in 45 seconds, auxillary magnetic switches and magnets may be used. See help on "(TTR) Travel time reset" input function.

(P0045) Protection and monitoring settings -> Other protection settings -> Mechanical brake monitoring

Every drop or release of brake operations are verified with brake micro switches which are located on brake. This parameter is used to enable/disable mechanical brake monitoring.

(P0800) Protection and monitoring settings -> Other protection settings -> Mechanical brake-2 monitoring

In some machines two mechanical brakes used to keep machine in stop condition. This parameter is used to enable/disable second mechanical brake monitoring.

(P0788) Protection and monitoring settings -> Other protection settings -> APRE monitoring

In some UCM (EN81-1-A3) compatible systems speed regulator which has additional locking mechanism and APRE board which is used to drive that additional locking mechanism is needed to be used. This parameter is used to enable/disable APRE board monitoring function which is required for UCM compatible installations and verifies that Apre board and speed governor solenoid working as expected.

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(P0804) Protection and monitoring settings -> Other protection settings -> Speed governor locking time

Apre board is used to lock speed regulator with additional locking mechanism. However, in arrival to the floors some delay is required to ensure that cabinet is completely stopped and speed regulator can be locked safely. This delay also depends on the APRE board.

This parameter is used to define minimum delay for monitoring functions of Arcode.

(P0795) Protection and monitoring settings -> Other protection settings -> When safety chain (120) is off

Safety chain 120 point is always monitored by Arcode to detect any problem. Any discontinuity in this signal requires an action which can be programmable with 2 options. This parameter is used to program behavior in the safety chain errors.

-       Resume operation when 120 is back ON: In this option, operation is blocked as long as 120 signal is broken. When 120 signal is back ON then operations is resumed.

-       Block elevator: In this option, operation is blocked. Even 120 signal turns to normal, operation is not resumed. It is requires operator reset or power cycle.

(P0774) Protection and monitoring settings -> Other protection settings -> Heatsink overheat error threshold

(P0964) Protection and monitoring settings -> Other protection settings -> Direction change count limit

(P0796) Protection and monitoring settings -> Shaft/Car protection and monitoring

(P0887) Protection and monitoring settings -> Shaft/Car protection and monitoring -> Shaft entry protection

(P0799) Protection and monitoring settings -> Shaft/Car protection and monitoring -> Behaviour when car light fuse is blown

In Arcode system car light current is monitored and any problem with car light can be detected. This parameter is used to program behavior in Car light problems. Two options are available;

-       Continues normal operation: System continues to normal operation.

- Only inspection: System continues to work in inspection mode.

(P0840) Fire evacuation and firefighting settings

(P0613) Fire evacuation and firefighting settings -> Standards compatibility

---

(P0841) Fire evacuation and firefighting settings -> Fire evacuation (Phase-1) enabled

- No: All fire modes are disabled

- Yes: Phase-1 operation is enabled

(P0842) Fire evacuation and firefighting settings -> Firefighter operation(Phase-2) enabled

- No: Phase-2 operation is disabled

- Yes: Phase-2 operation is enabled

(P0861) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1)

Fire Phase-1 Operation mode is intended to carry the passengers inside the lift to a safe evacuation floor when a fire is detected in the building. Upon arrival to the evacuation floor, the elevator is taken out of service.

a) Entry to Phase-1:

Fire evacuation operation is initiated on the following conditions:

    if "(P0844) Fire floor selection method" is set to

        - "Main fire evacuation floor":

            if (FES1), (FFKL) or (FFKC) input is activated.

            Note: (FFKC) is ignored if (P0843) is set to "Not installed"

        -"Main or alternate fire evacuation floor":

            Only if (FES1) or (FES2) inputs are activated.

        -"Fire detected floor" or "Lowest floor without fire"

            Any input (FDLx) from a floor is activated.

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As an exception, when the controller is in one of:

     - inspection operation mode

     - recall operation mode

     - automatic rescue mode or mains power is off

     - an error state

     - only-inspection mode (motor tuning or shaft learning not performed yet)

     - power-up position resetting

... fire evacuation will not be started.

b) Operation in Phase-1:

When Fire Evacuation Operation is activated:

     - Photocell inputs are disabled.

     - All landing call buttons are disabled.

     - Outputs (FRA1) and (FRA3) are activated.

     - Controller is disconnected from group communications.

     - Relevelling and door preopening is disabled.

     - Behavior of door-open button and car command from the current floor depends on the parameters: P0866

     - If the car was at rest when a fire signal was received:

        - Automatic doors are closed.

        - Semi-automatic doors are closed as soon as 130 input is active (swing door manually closed).

        - The car is sent to the selected fire-evacuation floor (see section "Selection of Fire Evacuation Floor in Phase-1")

     - If the car was moving on the direction of the selected fire-evacuation floor:

        - The travel is shortened or lengthened accordingly to move to the fire selected fire evacuation floor as soon as possible.

     - If the car was moving on the opposite direction of the selected fire-evacuation floor:

        - The car is stopped at the nearest possible stop. Then, without opening the   doors, it is sent to the selected fire evacuation floor.

     - If the doors cannot be closed because of a door-open button being pressed or a swing-door being open (for semi-automatic doors) or the elevator being in inspection or recall modes, an audible alarm may be sounded. This behavior depends on the setting of parameter: P0860

On arrival to the selected fire evacuation floor:

- The behavior of doors is determined by the settings of the following parameters: P0848, P0617, P0854, P0866:

- While waiting on the fire evacuation floor; even if the doors are set to wait-closed, they can still be opened from the outside depending on the setting of P0852.

c) Exiting Phase-1:

Condition for returning to normal service is determined by the parameter P0614.

(P0844) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Fire evacuation floor selection method

- Main fire evacuation floor:

The floor set in the parameter "(P0619) Fire evacuation main floor" is always selected.

- Main or alternate fire evacuation floor:

One of the floors set in the parameters "(P0619) Fire evacuation main floor" or "(P0620) Fire evacuation alternate floor" is selected depending on the states of (FES1), (FES2) inputs.

In case both signals are active:

- If "(P0845) Updating of fire evacuation floor" is set to the value "Only at the beginning of Phase-1", the signal activated first will determine the selection.

In other cases, (FES1) signal has priority over (FES2) signal.

- Lowest floor without fire:

The lowest floor (x), which has the (FDLx) input inactive, will be selected.

If all (FDLx) signals at all floors are active, the bottom floor will be selected.

If all (FDLx) become inactive when in Phase-1, the bottom floor will be selected.

- Fire detected floor:

The floor, which has the (FDLx) input active, will be selected.

If more than one (FDLx) input is active then the lowest of these floors will be selected.

If all (FDLx) become inactive when in Phase-1, the bottom floor will be selected.

(P0619) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Fire evacuation main floor

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(P0620) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Fire evacuation alternate floor

(P0845) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Updating of fire evac.floor

   - Only at the beginning of Phase-1:

      The selection of fire evacuation floor is made at the beginning of Fire Phase-1 Operation and is not changed until the controller returns to normal mode.

      -When doors are closed:

      The selection of the fire evacuation can be changed depending on the states of related inputs only when the car doors are closed.

      -Always with forced door closing:

      The selection of the fire evacuation floor can be changed depending on the states of related inputs.

      If the selected fire evacuation floor is changed while the doors are open in the previous fire evacuation floor, the doors will be closed and the car will be sent to the new fire evacuation floor automatically.

(P0848) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Enabled doorsides during fire evacuation

This parameter sets which doorside(s) will be enabled during fire evacuation.

If a doorside is not enabled, that door will be held closed all the time during Phase-1.

(P0617) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Door state on arrival to fire evac. floor

In fire mode elevator directly goes to fire exit floor which is associated with related YAN signal. When the elevator reaches to fire exit floor behavior in fire mode is programmable. Behavior can be one of these listed below.

-      Elevator can wait in Fire exit floor with opened doors.

-      Elevator can wait in Fire exit floor with closed doors.

-      Elevator can open and then close doors and wait in Fire exit floor.

(P0854) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Delay for closing the door on fire evac.floor

Sets the delay before closing the door(s) after arrival to the selected fire evacuation floor.

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(P0866) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Door-open button during fire evacuation

This parameter sets the behavior of door-open button when fire Phase-1 is initiated while the car was waiting in another floor then the selected fire evacuation floor.

    - Inactive:

    Pressing the door-open button has no effect.

    - Active at most 2 minutes:

    The door(s) can be held open for at most 2 minutes by pressing the door-open button. After 2 minutes, the door(s) will close even if the door-open button is held pressed and the car will be sent to the selected fire evacuation floor.

    If the doors are closing regardless of door-open button being pressed, K4A (and/or K4B) door-nudging outputs will also be activated during closing of the doors.

(P0852) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Means to open door on fire evacuation floor

This parameter is available only when P0617 is set to "Wait closed" or "Open and then wait closed" values.

According to the note on EN80-73 5.3.5., if holding the door opened is not allowed by national directives, a means to allow opening of the door from outside must be supplied. This can either be a mechanical triangle key or an electronic signal.

    - Mechanical (triangle key, etc):

    The controller does not open the door with any signal. Mechanical means will be used to open the door(s) in case of need.

    - Landing call button:

    Pressing the landing call button will open the door(s). Then the door(s) will be closed after the duration set by the parameter P0023.

    - Dedicated button or key (FDOA, FDOB) inputs:

    A dedicated button or key will be used to open the door when parked on fire evacuation floor. These button(s) or key(s) need to be connected to the programmable input(s) (FDOA) and/or (FDOB) to open the door(s) A and/or B.

(P0858) Fire evacuation and firefighting settings -> Fire evacuation operation (Phase-1) -> Overload signal in fire evacuation mode

    - Inactive:

    When Phase-1 is initiated, the controller will try to move the car to fire evacuation floor even if overload signal (804) is active.

    - Active:

    When Phase-1 is initiated, if the car was at rest on a floor other than the evacuation floor the doors will be opened if the overload signal (804) is active.

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The door(s) will be closed and the car will move to the selected fire evacuation
floor after deactivation of (804) signal.

**(P0860) Fire evacuation and firefighting settings -> Fire evacuation operation
(Phase-1) -> Audible alarm in fire evacuation**

Sets the behavior of audible alarm in Phase-1. The speaker connected to the IBC
board will be used for the alarm. Also the programmable output (FRAL) can be used
by connecting to an external audible alarm device.

- Always silent:

Audible alarm is never activated in Phase-1.

- Active in inspection:

Audible alarm is activated when the controller is in inspection mode and a
fire signal is received.

- Active in recall

Audible alarm is activated when the controller is in recall mode and a fire
signal is received.

- Active in inspection and callback

Audible alarm is activated when the controller is in inspection or recall
modes and a fire signal is received.

- Active in door-jam (after 2 mins)

Audible alarm is activated when the controller cannot close the door(s)
withing 2 minutes after receiving a fire signal. The reason of the door(s) not
being closed can be: door-open button being held open, overload signal being
active, door(s) being jammed, swing-door being open (for semi-auto doors).

- Active in door-jam, insp. and callback

Audible alarm is activated when the controller cannot close the door(s)
withing 2 minutes or the controller is in inspection or callback modes when a fire
signal was received.

- Until arrival to fire evac floor

Audible alarm is activated as soon as a fire signal is received. The audible
alarm will be shut-down upon arrival to the selected fire evacuation floor.

- Always active

Audible alarm is active all the time during in Phase-1.

**(P0614) Fire evacuation and firefighting settings -> Fire evacuation operation
(Phase-1) -> Condition to exit fire mode**

A fire mode can be ended with one of the event listed below.

-       System reset or power cycle

-       Fire signal(s) return to normal mode

-       Activation of fire cancel signal

This parameter used to determine fire exit event. If the fire cancel signal is selected, CFA function need to be programmed at least one programmable input.

(P0862) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2)

Fire Phase-2 Operation mode is intended for use by the fire service personnel during fire.

a) Entry to Phase-2:

Fire Phase-2 Operation is initiated when all of the following conditions are true:

 - Fire Phase-1 Operation is completed (car waiting on selected fire evacuation floor)

 - (FFKL) or (FFKC) input is activated.

b) Operation in Phase-2:

During Phase-2 Operation:

 - Photocell inputs are disabled

 - All landing call buttons are disabled.

 - Outputs (FRA2) and (FRA3) are activated.

 - Controller is disconnected from group communications.

 - Relevelling and door preopening is disabled.

 - Only one car command can be registered at a time. When a car command is already registered, pressing the car command button of another floor clears the previous registration and the new command gets registered.

 - Behavior of the door(s) are described in the section "Behavior of the Doors in Fire Phase-2 Operation Mode"

 - If the parameter "(P0863) Car commands in firefighter operation" is set to the value "Only when firefighter key inside car is active":

  - When the key input (FFKC) is inactive:

   - the car will open its doors and will not close the door(s) in any   condition. Also car calls will not be registered.

  - When the key input (FFKC) is active:

   - A single car command can be given. The door(s) will close if there is a car command or door-close button is pressed.

 - If the parameter "(P0864) When the landing-key turned OFF and ON (5 sec)" is set to the value "Fire evacuation (Phase-1) is restarted":

  The car may be recalled to the fire evacuation floor by toggling the firefighter key in the landing from ON to OFF and then back to ON again within 5 seconds. In this case, the controller will shift back to Fire Phase-1 Operation Mode, which will cause the car to close the doors, move to the fire

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evacuation floor, open the doors and wait. After opening of the doors, Fire Phase-2 Operation continues.

If the key was turned to OFF for more than 5 seconds, it will continue operation in firefighter service mode. If the car is sent to the fire evacuation floor by car commands while the landing firefighter key is OFF, the controller returns to normal service mode.

(P0843) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> Firefighter key inside car

Sets whether there is a firefighter key inside the car or not.

According to articles EN81-72 5.8.8.g and 5.8.8.h. ; the behavior of a firefighter elevator with and without a key inside the car differs.

- Not installed:

The programmable input (FFKC) has no effect.

- Installed:

Effect of the programmable input (FFKC) depends on the parameter P0863.

(P0849) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> Enabled doorsides during firefighter control

Selects the door-side which can be used in firefighter service (Phase-2)

- Only Door-A

- Only Door-B

Note: In the current version of the firmware, only one door-side can be selected. Firefighter elevators with 2 doors (and conditions described in EN81-72 5.8.9 are not yet supported)

(P0855) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> Opening mode of doors in firefighter mode

- Automatically opens:

The door(s) are opened automatically on arrival to a floor. If the door is closed later (by the door-close button), a short press of the door-open button will re-open the door.

- By pressing button shortly:

Pressing the door open button (even shortly) will open the car door.

- By holding button until fully open (deadman):

The door will start opening when door-open button is pressed but will close again if the button is released before the door is completely opened.

The door will stay open if the button is not released until the door is completely opened.

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Meaning of "completely open" is chosen by the parameters "(P0013) Door-A limit switches" and "(P0020) Door-B limit switches".

(P0856) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> Closing mode of doors in firefighter mode

- By pressing button shortly:

Pressing the door-close button (even shortly) will close the car door.

- By holding button until fully-closed (deadman):

The door will start opening when door-close button is pressed but will open again if the button is released before the door is completely closed.

The door will stay closed if the button is not released until the door is completely closed.

Meaning of "completely closed" is chosen by the parameters "(P0013) Door-A limit switches" and "(P0020) Door-B limit switches".

(P0857) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> Current floor car command in firefighter control

Sets the behavior of car command button of the current floor.

(P0859) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> Overload signal in firefighter control

- Inactive:

Overload signal is ignored.

- Active

If overload signal is active while waiting on a floor, the car will not move but the door(s) will not be opened automatically. The door can be opened by pressing the door-open button.

(P0863) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> Car commands in firefighter operation

This parameter is available only if P0843 is set to "Installed".

- Always active:

The car call buttons are always active in Phase-2.

- Only when firefighter key inside car is active:

The car call buttons can be used to give commands only when the firefighter key inside the car (FFKC) is set to 1 (active) position.

When the key is turned to 0 position, the car commands will not be received and the door(s) will be kept open. (See EN81-72 5.8.8.h)

(P0864) Fire evacuation and firefighting settings -> Firefighter operation (Phase-2) -> When landing-key turned OFF and ON (5 secs)

This parameter is available only if P0843 is set to "Not installed".

- Fire evacuation (Phase-1) is restarted:

During Phase-2, if the firefighter key at the landing (FFKL) is turned to 0 and then to 1 again within 5 seconds; Phase-1 operation will be restarted and the car will be sent back to the selected fire evacuation floor. (See EN81-72 5.8.8.g)

Leaving the key in 0 position or turning it to 1 position after 5 seconds will have no effect.

- Stays in firefighter control (Phase-2):

Phase-2 is never left.

(P0958) Fire evacuation and firefighting settings -> U36 function

(P0959) Fire evacuation and firefighting settings -> U36 function -> U36 function

(P0960) Fire evacuation and firefighting settings -> U36 function -> Lightbarriers in U36 mode

(P0116) Password settings

(P0436) Password settings -> Maintenance tech. password

This parameter is used to set maintenance technician access password. It can be 6 digits number.

(P0437) Password settings -> Installer password

This parameter is used to set installer access password. It can be 6 digits number.

(P0492) Other settings

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Various peripheral settings are adjusted by parameters under this branch.

(P0499) Other settings -> Car light off-delay

This parameter sets the timeout duration which is used to delay switch off the car light after each drive.

(P0517) Other settings -> Limiters to be used in inspection

Limiters for inspection mode are adjusted with the parameter. Two options are available.

-       817/818 signals

-       INL signal

(P0518) Other settings -> On inspection and recall limits

This parameter is used to set elevator behavior when a limiter is detected in inspection or recall modes. Elevator stops immediately, stops at next door zone level or continues to drive (only recall)

(P0529) Other settings -> Car fan automatic turn-off delay

If the Car fan is turned on, it is automatically turned off after specified time with this parameter. If parameter is adjusted to 0 than automatic turn of feature is disabled. Parameter can be adjusted 0 to 600 seconds.

(P0950) Other settings -> Sleep mode entry

(P0713) Other settings -> Door behaviour on error

If any error occurs in the system and elevator is blocked at in the shaft, doors are kept closed. If opening doors at door zones is required, it can be adjusted with this parameter.

(P0376) Evacuation with backup power

(P0712) Evacuation with backup power -> Evacuation method

This parameter determines evacuation method. In Arcode systems, only active drive evacuation is supported.

(P0748) Evacuation with backup power -> Backup power source voltage

This parameter specifies backup power source voltage which is used for evacuation active drive.

60V DC, 72V DC or 220V AC power sources can be used with the Arcode.

(P0836) Evacuation with backup power -> Backup source power limit

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(P0390) Evacuation with backup power -> Maximum speed on evacuation

Evacuation maximum speed is adjusted with this parameter. 0.1m/sec to 0.5m/sec values can be adjusted.

(P0714) Evacuation with backup power -> Evacuation target

This parameter specifies target floor for evacuation. Two options are available. Target floor can be any floor or nearest floor which can be reached with less power consumption.

(P0717) Evacuation with backup power -> Evacuation target floor

If P0714: Evacuation Target parameter adjusted as any floor then rescue target floor is specified with this parameter.

(P0759) Evacuation with backup power -> Delay for generator startup

Generators are not start up very fast. Sometimes it takes 60sec to produce good backup power. For this reason, if a generator is used as a backup power source, it is required to wait for a while for generator startup. This delay is adjusted with this parameter.

(P0906) Evacuation with backup power -> UPS testing function settings

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(P0907) Evacuation with backup power -> UPS testing function settings -> UPS testing function

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(P0908) Evacuation with backup power -> UPS testing function settings -> UPS testing time

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(P0909) Evacuation with backup power -> UPS testing function settings -> UPS testing days

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(P0910) Evacuation with backup power -> UPS testing function settings -> UPS testing days -> Monday

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(P0911) Evacuation with backup power -> UPS testing function settings -> UPS testing days -> Tuesday

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(P0912) Evacuation with backup power -> UPS testing function settings -> UPS testing days -> Wednesday

---

(P0913) Evacuation with backup power -> UPS testing function settings -> UPS testing days -> Thursday

---

(P0914) Evacuation with backup power -> UPS testing function settings -> UPS testing days -> Friday

---

(P0915) Evacuation with backup power -> UPS testing function settings -> UPS testing days -> Saturday

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(P0916) Evacuation with backup power -> UPS testing function settings -> UPS testing days -> Sunday

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(P0605) Test functions

Some functions which are not required for normal work are implemented under this branch just for test usage.

(P0606) Test functions -> Random calls

This parameter enable/disable random calls which are used to test heavy duty elevator. Elevator randomly has some calls and response to them.

(P0810) Test functions -> Acceptance test tools

For commissioning tests overspeed limits can be changed to be sure about elevator behavior. This parameter enables/disables P0813: Overspeed error limit on preopening and P0814: Overspeed error limit on releveling parameters.

(P0813) Test functions -> Overspeed error limit on preopening

This parameter adjusts overspeed error limit for door preopening. It accepts values 0.01m/sec to 0.8m/sec.

(P0814) Test functions -> Overspeed error limit on relevelling

This parameter adjusts overspeed error limit for releveling. It accepts values 0.01m/sec to 0.3m/sec.

(P0921) Real Time Clock zones (RTCX)

(P0922) Real Time Clock zones (RTCX) -> Time zone-1 (RTC1)

(P0927) Real Time Clock zones (RTCX) -> Time zone-1 (RTC1) -> Start time

(P0928) Real Time Clock zones (RTCX) -> Time zone-1 (RTC1) -> End time

(P0923) Real Time Clock zones (RTCX) -> Time zone-2 (RTC2)

(P0929) Real Time Clock zones (RTCX) -> Time zone-2 (RTC2) -> Start time

(P0930) Real Time Clock zones (RTCX) -> Time zone-2 (RTC2) -> End time

(P0924) Real Time Clock zones (RTCX) -> Time zone-3 (RTC3)

(P0931) Real Time Clock zones (RTCX) -> Time zone-3 (RTC3) -> Start time

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(P0932) Real Time Clock zones (RTCX) -> Time zone-3 (RTC3) -> End time

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(P0925) Real Time Clock zones (RTCX) -> Time zone-4 (RTC4)

(P0933) Real Time Clock zones (RTCX) -> Time zone-4 (RTC4) -> Start time

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(P0934) Real Time Clock zones (RTCX) -> Time zone-4 (RTC4) -> End time

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(P0926) Real Time Clock zones (RTCX) -> Time zone-5 (RTC5)

(P0935) Real Time Clock zones (RTCX) -> Time zone-5 (RTC5) -> Start time

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(P0936) Real Time Clock zones (RTCX) -> Time zone-5 (RTC5) -> End time

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