BRM GLOBAL, BRM 630S and BRM 630S 4G

Elevator Emergency Communication Set

Installation and User Manual

Please read this manual carefully and follow instructions exactly!

ENGLISH

DESCRIPTION OF BRM 630 S

BRM-630 S is an emergency communication set which ensures bilateral communication for elevators according to the standards 81-28 and 81-70. Moreover, it provides tracking breakdowns, revision and other recognized systems.

FEATURES OF BRM 630 S

BRM-630 S is a set which has been designed as "Emergency Communication System" in the light of new regulations and standards and equipped with powerful software support. It is easy to install and use, its technical surveillance is effortless and outputs are satisfying.

- **It's filters faults with its advanced filter function and does not keep busy communication center or emergency personnel due to unnecessary alarms.**
- It's terminals send a test message to the BRMCLOUD system once every three days (thanks to ADJUSTABLE TIME) and checks whether the line works or not by communicating with the system once every 90 seconds.
- **It checks situation of battery automatically. Artificial intelligence is prepared to receive alarms of the battery.**

- It has a light system meeting requirements of the EN 81-70 or optionally relay outputs which can be connected with buttons.
- **Also, it is prepared for interphone system. It will be enough to connect a receiver to the system.**
- It is a software which controls alarms and operating situation of all BRM-630 S elevator
- **Various operators can use this software simultaneously.**
- The system warns its users in certain cases.
- **It manages test alarms, inspections, emergency calls and technical alarms.**
- There is no license fee in line with requirements of the standards 81-28 of the BRM CLOUD software system.
- **Outstanding feature of the BRM-630 S is that it is reportable and can be tracked by a computer, cellphone or a tablet and its communication abilities are improved.**
- Thanks to its software and hardware integration, distributors can check operability or alarm situations of elevators they have installed online.
- **It sends SMS to 5 cell phone numbers which is previously designated in case of any danger, maintenance and etc. and calls these numbers one by one until it connects them.**

> Follow these instructions during installation, maintenance and application stages. Any damage originating from any application types excluding in this manual will invalidate guaranty.

Main Module
Engine Room

Cab Top
Module
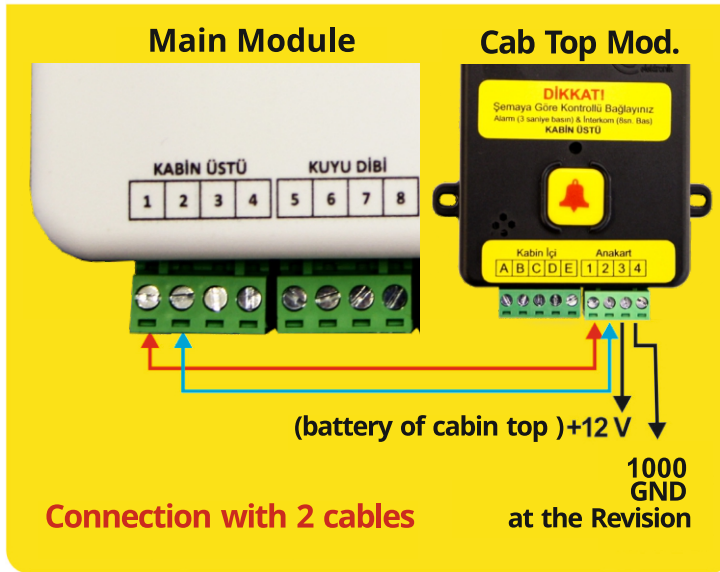

Pit Bottom
Module

In-Cab Module

Antenna

ATTENTION
It should be installed in easily accessible places
that will not be affected by water and moisture.
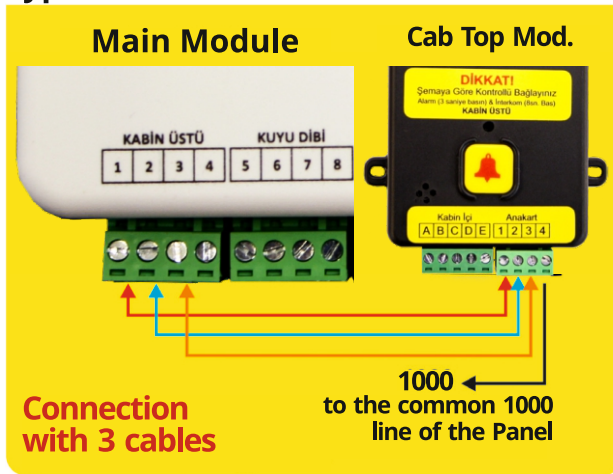
Cab Top Module to Main Module Connection

Type 1

Main Module — **Cab Top Mod.**

(battery of cabin top)+12 V

1000
GND
at the Revision

Connection with 2 cables

"BRM main module" can be connected with the "cab top module" in 3 different ways.

ATTENTION: If the + 12V power input on the cabinet is taken directly from the revision battery, the BRM Device measures the power level of your revision battery and can give you the necessary warnings.
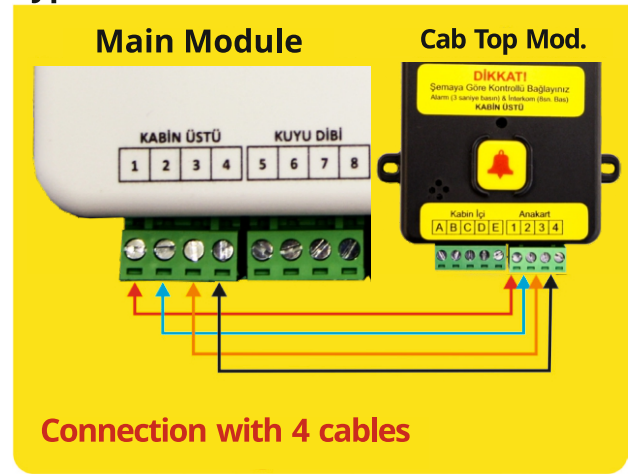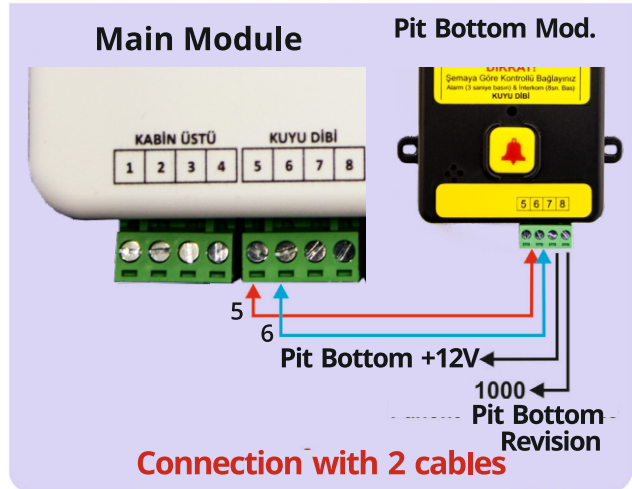
Cab Top Module to Main Module Connection

Type 2

Main Module   **Cab Top Mod.**

Connection with 3 cables

1000 ← to the common 1000 line of the Panel

Type 3

Main Module   **Cab Top Mod.**

Connection with 4 cables

The Main Module and the Pit Bottom Module can be connected to each other in 3 different ways.

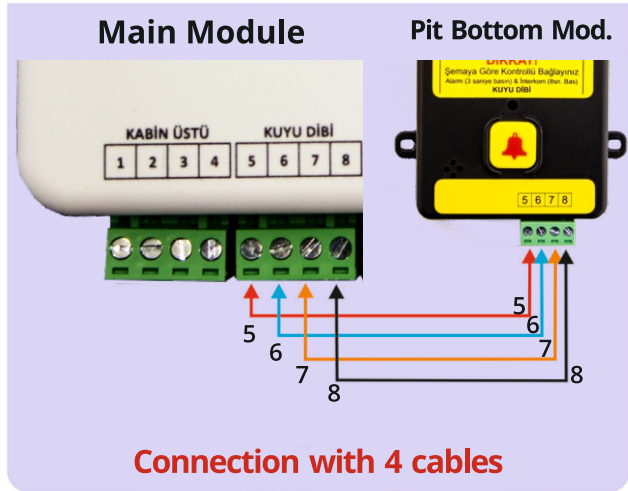The pit bottom module can be connected to the + 12V line in the revision box.

Type 1

Main Module

Pit Bottom Mod.

5

6

Pit Bottom +12V

1000

Pit Bottom Revision

Connection with 2 cables

Main Module to Pit Bottom Module Connection

Type 2

Main Module   **Pit Bottom Mod.**

KABİN ÜSTÜ   KUYU DİBİ
1 2 3 4   5 6 7 8

DİKKAT!
Şemaya Göre Kontrollü Bağlayınız
Alarm (3 saniye basın) & İnterkom (Bsn. Bas)
KUYU DİBİ

5 6 7 8

5
6
7

1000 ← to the common 1000 line of the Panel

Connection with 3 cables

Type 3

Main Module   **Pit Bottom Mod.**

KABİN ÜSTÜ   KUYU DİBİ
1 2 3 4   5 6 7 8

DİKKAT!
Şemaya Göre Kontrollü Bağlayınız
Alarm (3 saniye basın) & İnterkom (Bsn. Bas)
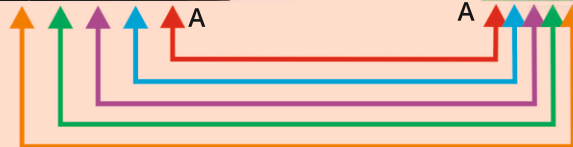KUYU DİBİ

5 6 7 8

5
6
7
8

5
6
7
8

Connection with 4 cables

In Cab Module to Cab Top Module Connection

In Cab Mod.

Cab Top Mod.

In Cab Module to Cab Top Module Connection

Cab Top Module

Interconnect Module

- Old type 530 N Cabin Module
- ARGESET Cabin Module
- AMETAL Amekon 3 Cabin Module
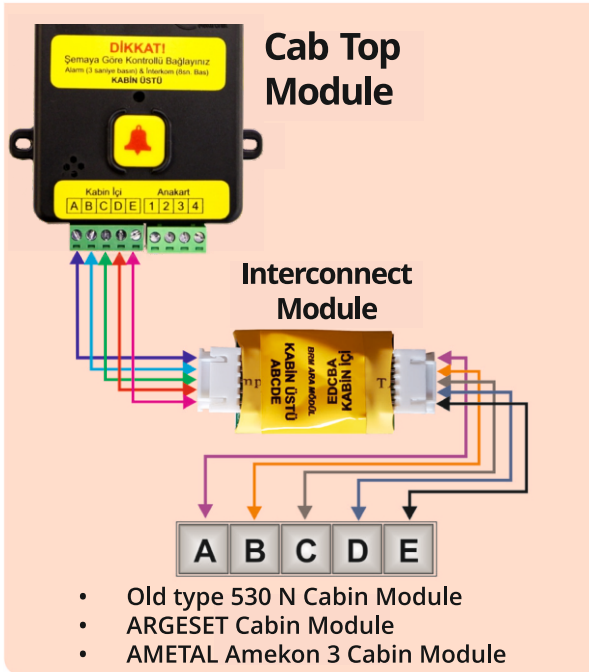
Please contact BRM Technical Support in case an interconnect module is required.
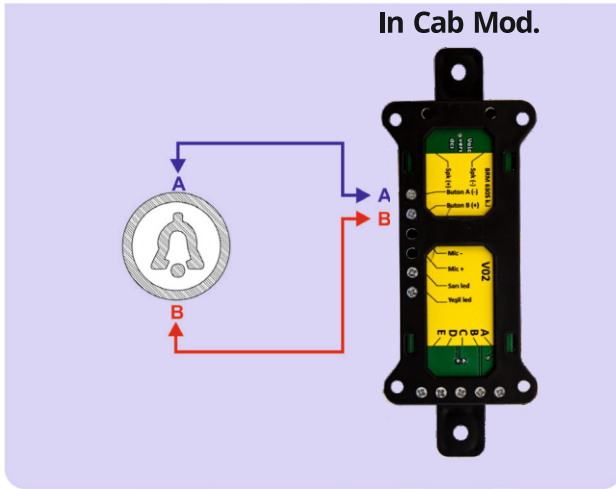
+90 555 109 57 40

Useage Areas
- Old type 530 N Cabin Module
- ARGESET Cabin Module
- AMETAL Amekon 3 Cabin Moduleü
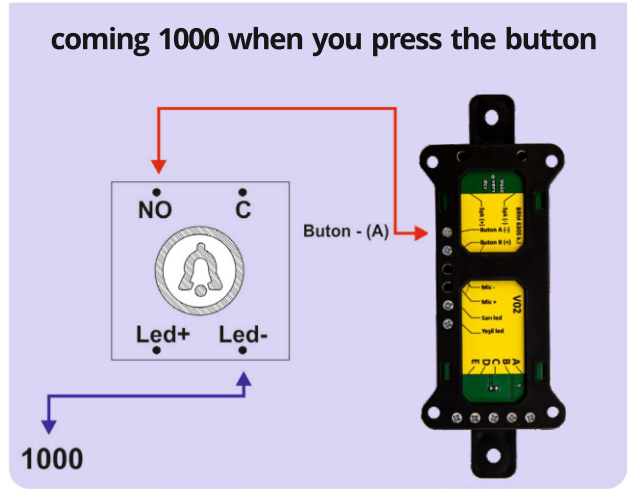
In-Cab Alarm Button Connection Types

Floating connection

In Cab Mod.

Working with (-)

coming 1000 when you press the button

NO   C

Buton - (A)

Led+   Led-

1000

In-Cab Alarm Button Connection Types

Working With (+)

coming +12V when you press the button
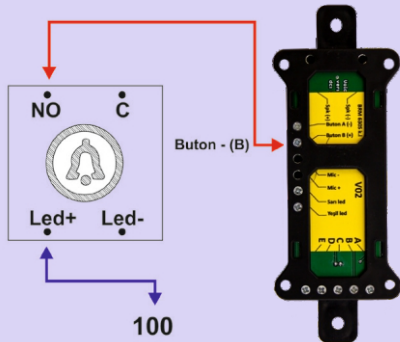
External LED Connection

YELLOW LED   GREEN LED
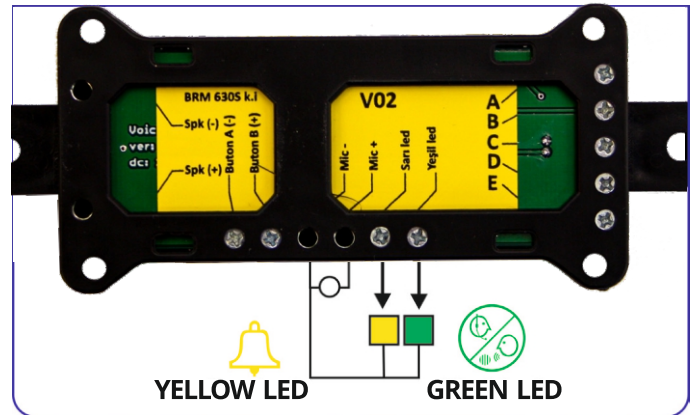
GENEMEK Connection Schema

MEGA 7 V
AUTODIALER
INTERFACE

SPEAKER +   SPK+
SPEAKER -   SPK-
ALARM BUTTON   AL 1
ALARM BUTTON   AL 2
MICROPHONE - –   MIC -
MICROPHONE +   MIC +
LED YELLOW   LED Y
LED GREEN   LED G
LED COM   E

BUTON A
BUTON B
MIC -
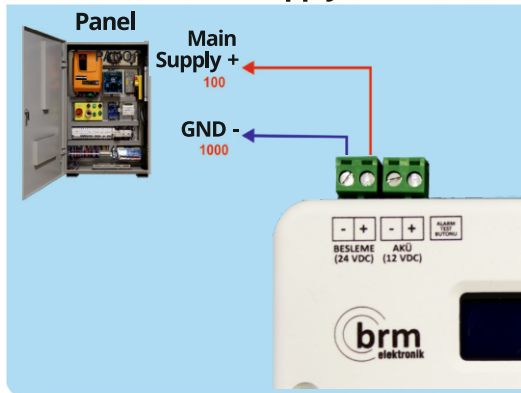MIC +
SARI LED
YESIL LED
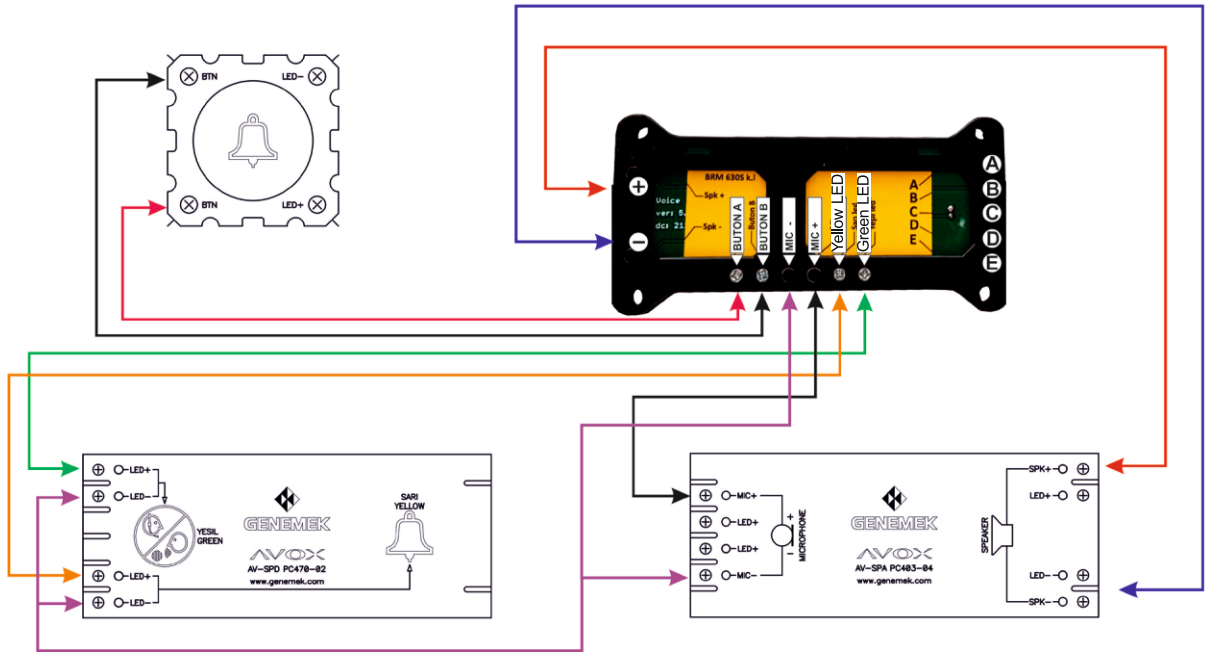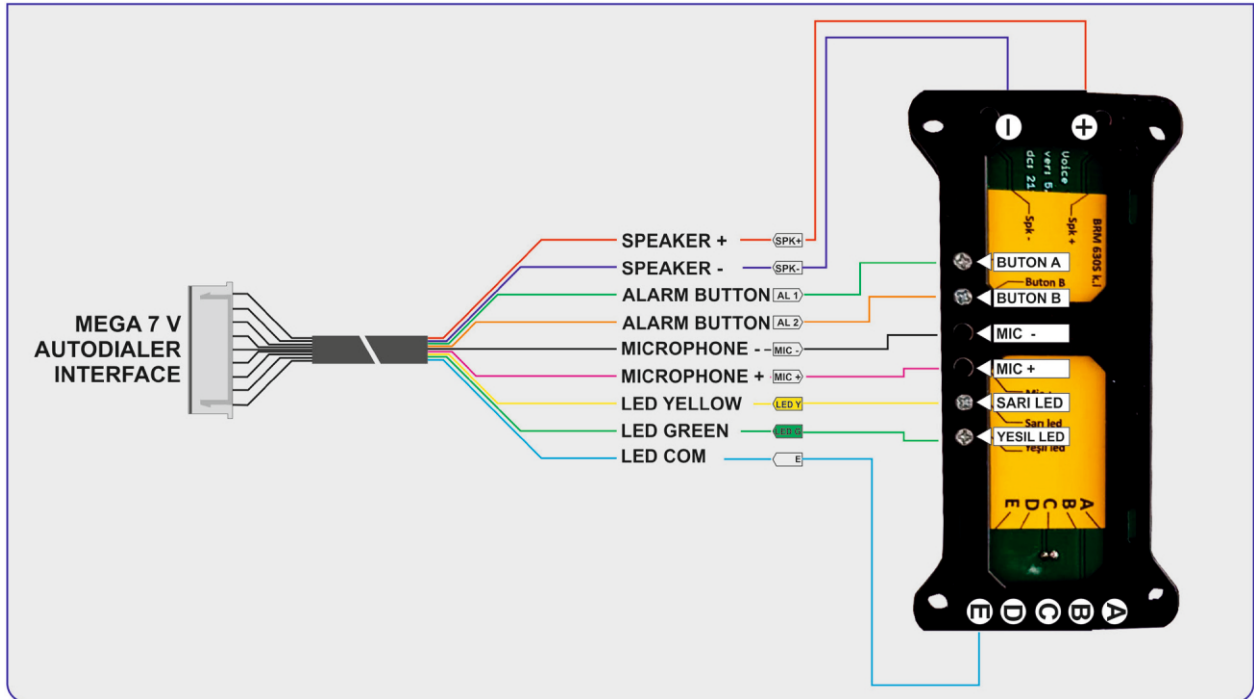
Supply and Battery Connections

ATTENTION!
Before connecting with 24 Volt DC energy, measure the energy and make sure it is 24 V. If high voltage is present, it may burn your device.

Main Module - Supply Connection

Main Module - Battery Connection
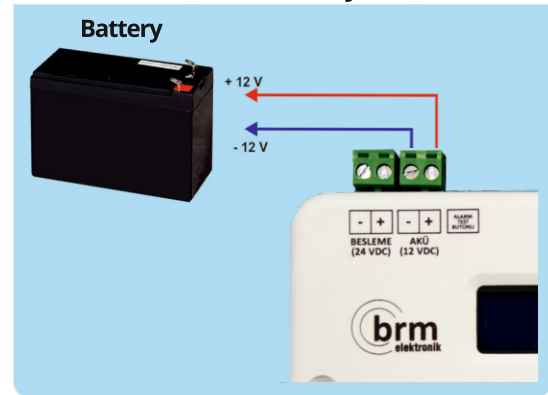
ATTENTION!
Connect by checking the (+) and (-) ends of the battery. In case of reverse connection, the battery input may be damaged.

BRM main module checks your battery and sends you the necessary warnings when the battery fails. It also checks the correct charge of the battery by charging the connected battery.

Main Module - Filtration Connections
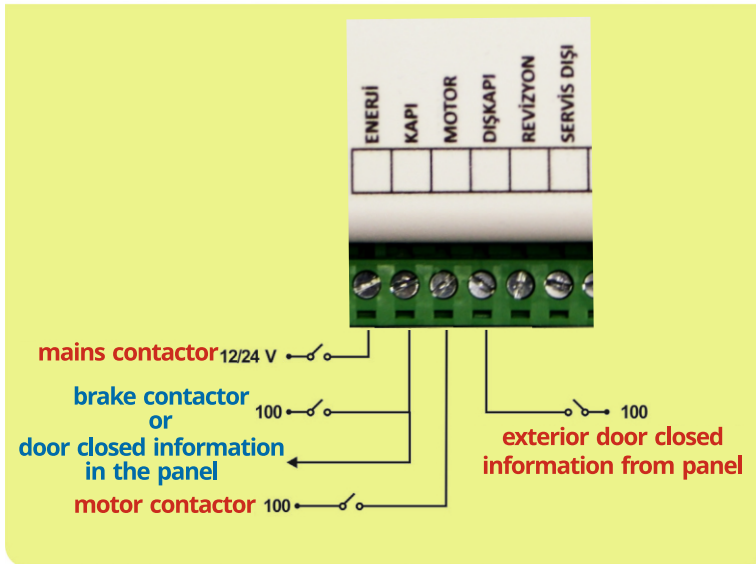

ENERJİ | KAPI | MOTOR | DIŞKAPI | REVİZYON | SERVİS DIŞI

mains contactor 12/24 V

brake contactor
or
door closed information
in the panel

motor contactor 100

exterior door closed
information from panel

According to the standard, external door control is required for semi-automatic doors. Please contact BRM technical service.

HOW SMART FILTRATION WORKS?

Intelligent filtering of BRM Devices;

1- Connecting the door, energy and motor ends

2- In panels with 81-28 filters, by connecting the energy and motor ends   (IT MUST BE ACTIVATED WITH A SINGLE CABLE FILTERING FEATURE THROUGH BRM CLOUD).
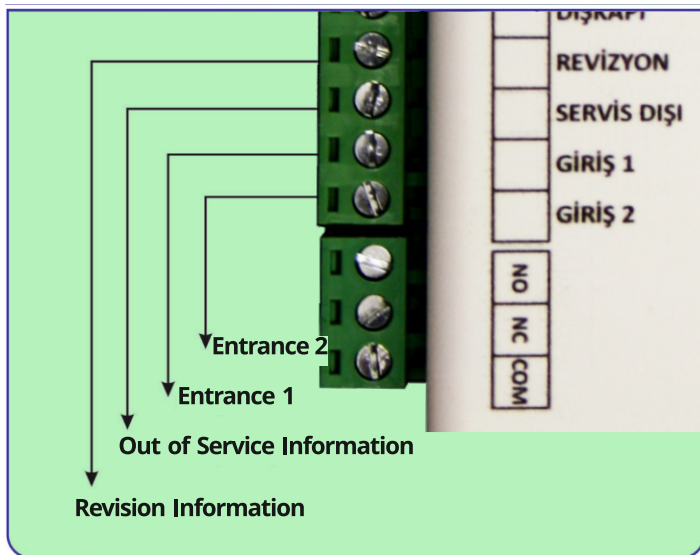
Filtration Positions;

ENERGY: there is ; 1 [12/24]
there is not ; 0

DOOR   : closed; 1 [12/24]
open   ; 0

ENGINE : working   ; 1 [12/24]
stopped ; 0

Filtration Connections

Other Filtration Connections

DIŞKAPI
REVİZYON
SERVİS DIŞI
GİRİŞ 1
GİRİŞ 2
NO
NC
COM

Entrance 2
Entrance 1
Out of Service Information
Revision Information

OUT OF SERVICE: This end is entered to show that the lift is out of service.
For informational purposes only.

ENTRANCE 1: You can connect a module you want to monitor from the control panel and follow it by defining it through the BRM CLOUD system.
This link is for informational purposes only.

ENTRANCE 2: You can connect a module you want to monitor from the control panel and follow it through the system.
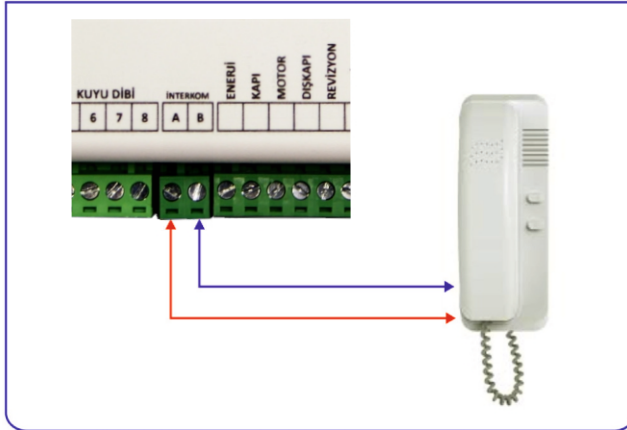*For informational purposes only.*

RS 485 A: For devices with special software. Please contact   BRM technical service for connection.

CANBUS: For devices with special software. Please contact   BRM technical service for connection.

Main Module - Intercom Connection

a- Connect terminals a and b ends of a handset that is compatible with the BRM 630 device to the ends of the Intercom socket with a suitable cable.

b- When the alarm button is pressed for 8 seconds, the intercom device in the engine room is searched automatically.

c- If the intercom device does not respond for 15 seconds, phone calls to other registered numbers

d- Intercom device talk time is 20 minutes.

e- When the intercom answered from the machine room, the conversation with the cabin starts automatically.

f- Obligation to use intercom device in places where BRM devices are available; They are in structures over 30 meters or without a machine room.

Plugging the Sim Card

BRM630 S series devices perform call and SMS sending capabilities over the GSM system. **To be used for this purpose; 2G FEATURES**

a. You can obtain a Postpaid line with a minimum of 100 Minutes - 200 SMS - 200 mb Internet package.

b. SIM card must be the smallest size **(NANO SIM).**

Cancel the PIN code of the SIM card. If the PIN code is not removed, the device will make a card error and the system will not work. Enter the Security Settings by inserting the sim card into a mobile phone, cancel the PIN code from here. Insert the SIM card whose PIN code you have canceled, as shown on the device.

"Insert your sim card into the sim card slot of the main module according to the figure on the left. When you want to remove it, simply push the sim card."

ATTENTION ! Without the SIM card inserted, the device will not be turned on and any function of the device will not work.

## Signal Strength and Battery Check and Reading IMEI

In BRM 630 devices, it means that there are 14 signal strength draws over 31 in the (RSSI) signal strength section (RSSI: 14) shown in the PICTURE BELOW. The signal strength of BRM630S models is between 1-31. Critical level device will inform.

(V) indicates battery power. (V: 13.7) The battery is at 13.7 volts.

IMEI

The above screen appears before starting data entries or after finishing and exiting. The 15-digit value on the screen is the IMEI number of the device. The value in the picture is representation. Another IMEI number will be read on your device.

* REQIRED
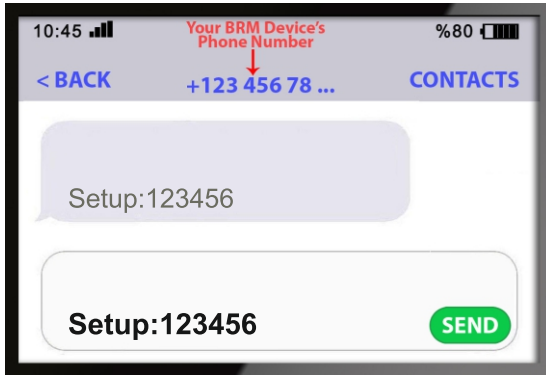
Factory default password is 123456. You can change it later. The setup will remain on for another 300 seconds with each successful SMS command.
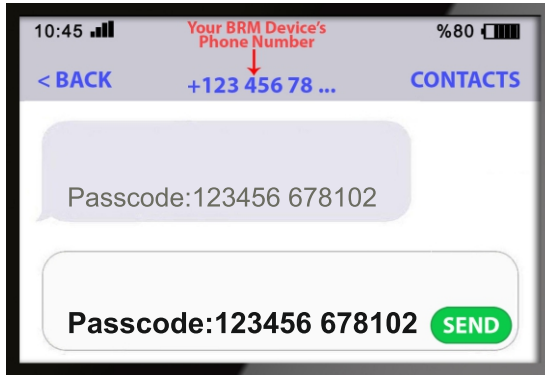
Note: Do not leave spaces between characters in SMS messages you write.

When the above SMS is sent to the device, the screen below should appear.

* OPTIONAL

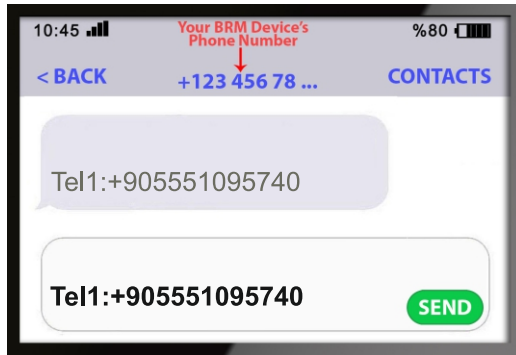Factory default password is 123456. Password changing command is "Passcode"

After writing "Passcode" (without quotation marks) write current password and leave a space then write new password. Finally push the send button.

The password must consist of 6 digits.

When the above SMS is sent to the device, the screen below should appear.

* REQUIRED

When the above SMS is sent to the device, the screen below should appear.

Attention!
The first phone to be entered must be a GSM number.

At this stage, 5 phone numbers are entered sequentially. It starts by writing messages as Tel1, Tel2, Tel3, Tel4, Tel5. An international code should be written at the beginning of the phone number.

Tel2:+904441095740

Tel3:+903331095740

Tel4:+907771095740

Tel5:+902221095740
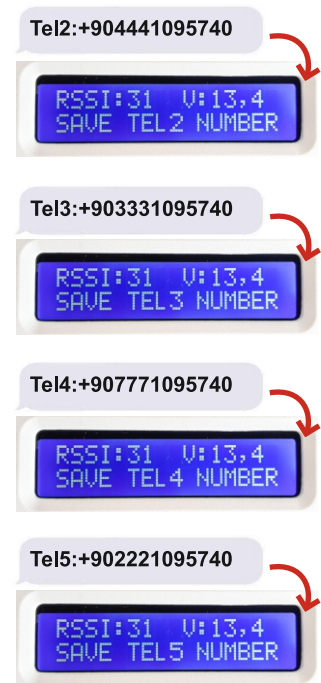
* REQUIRED
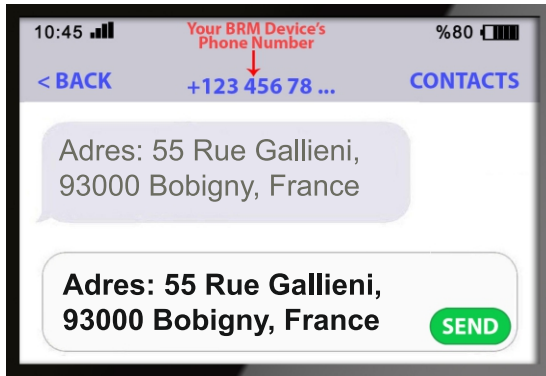
Start writing with "Adres".
There is only one "d" and "r" as you see.

Up to 100 characters can be written, including spaces.

Do not use special characters! You must use the English alphabet.

When the above SMS is sent to the device, the screen right should appear.

* REQUIRED

Start writing with "**Firma**"

Up to 100 characters can be written, including spaces.

Do not use special characters! You must use the English alphabet.

When the above SMS is sent to the device, the screen right should appear.
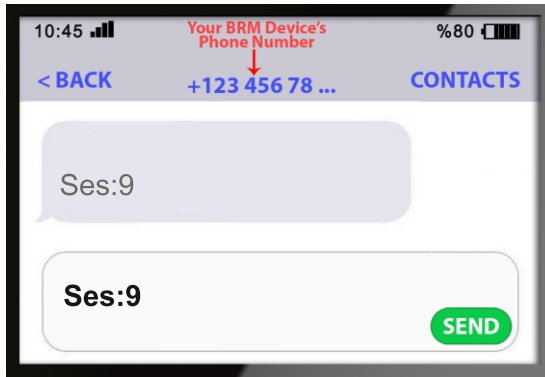
To change the volume, first
You need to type "Ses:". Then
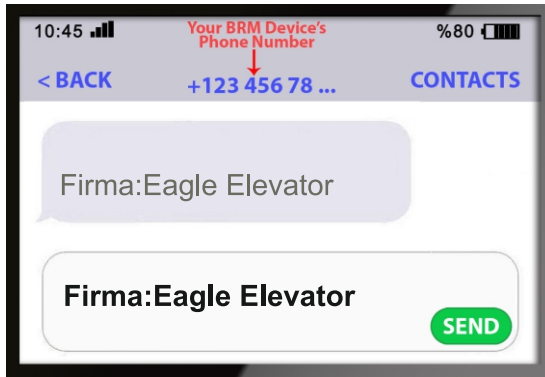You can choose a level between
5 and 9. Then write your choice.

When the above SMS is sent to the
device, the screen right should appear.

www.brmelektronik.com
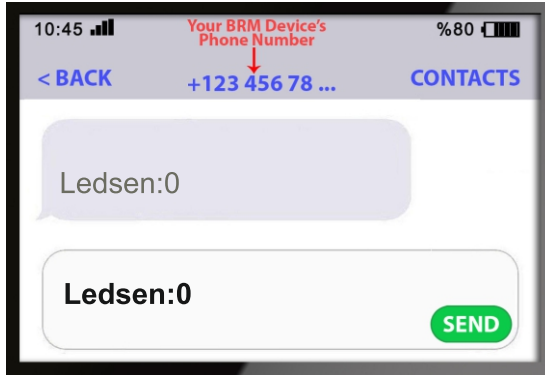
CABIN BELL (YELLOW LED) STATUS
0: lights up after passing through the filter
1: lights up when the button is pressed

When the above SMS is sent to the device, the screen right should appear.

Hole Active or Passive?
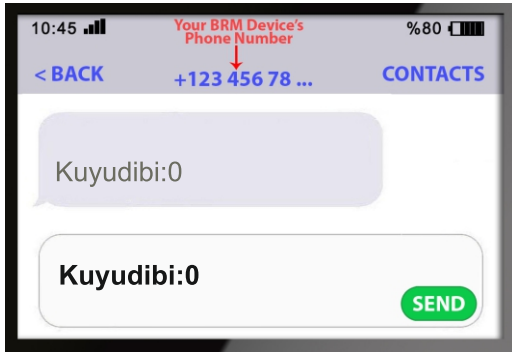
To change situation of hole you need to write;
Kuyudibi:0 (for passive) or Kuyudibi :1 (for active)

When the above SMS is sent to the device, the screen right should appear.

ADDING OR REMOVING EXTERIOR DOORS TO THE FILTER
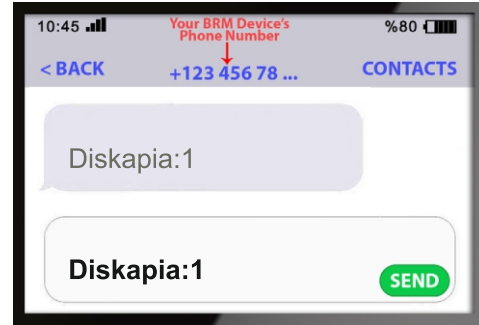
For activate the exterior door you must use "1". For deactivate the exterior door you can use "0".

For SMS: start writing with "Diskapia"

If you have double elevator, you will use
"Diskapib:1" command for second elevator's door.

Language Selection
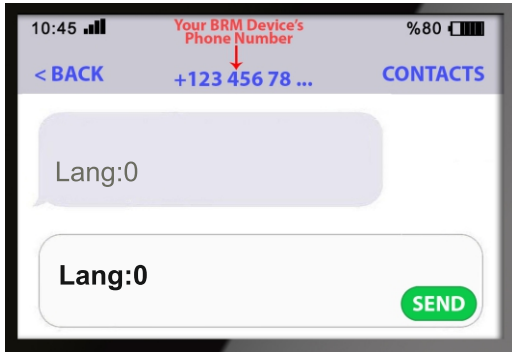
To select language of system, yo need to write to SMS,
Lang:0, Lang:1 or Lang:2
0: Turkish, 1: English 2: German

The above screen should appear when an SMS is sent to the device.

SENDING SYSTEM INFO
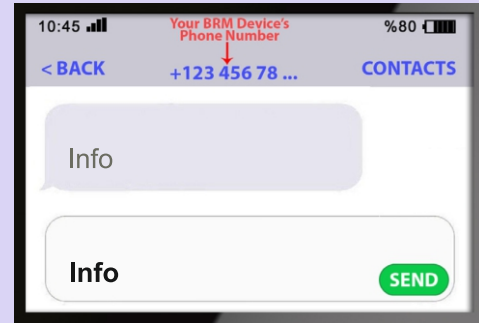
This sms command sends an info SMS
to user cell phone.
Info, includes some system informations.

**When the above SMS is sent to the device, the
screen below should appear.**

* REQUIRED, This section, where the processes are terminated, consists of 2 stages.

FIRST STEP: SAVING SETTINGS
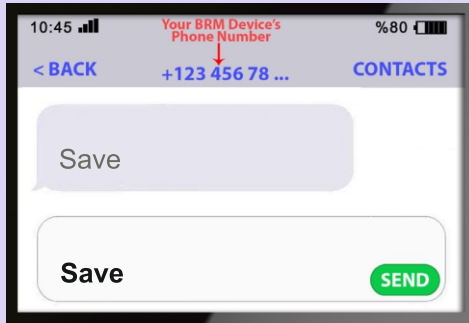
Make sure to save, especially after entering the phone and address information.

Write "Save" for save.
When the above SMS is sent to the device, the screen below should appear.

SECOND STEP: COMMAND CLOSE
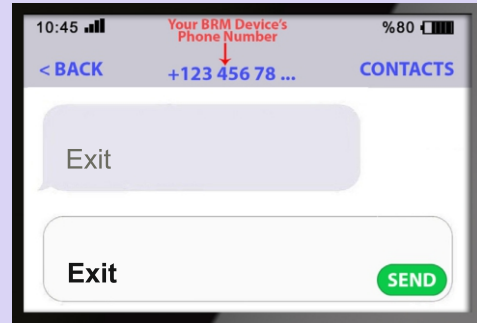
Write "Exit " for command close.

When the above SMS is sent to the device, the screen below should appear.
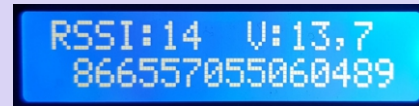
The screen returns to its original state before data entries.

REQUIRED COMMANDS FOR P100 PROTOCOL

Activate P100 or Make Passive

10:45
Your BRM Device's Phone Number
%80
< BACK   +123 456 78 ...   CONTACTS

P100:0

P100:0   SEND
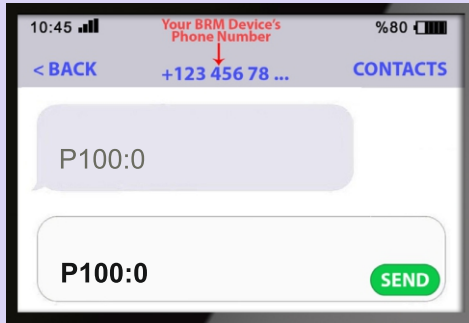
You need to write to SMS screen "P100:1"
to activate the P100 protocole.
When you write "P100:0" it will be passive too.

**When the above SMS is sent to the device, the
screen below should appear.**

P100 CHANGED
SMS CMD 295 SEC

CHANGE THE P100 ID

10:45
Your BRM Device's Phone Number
%80
< BACK   +123 456 78 ...   CONTACTS

P100id:12345612

P100id:12345612   SEND
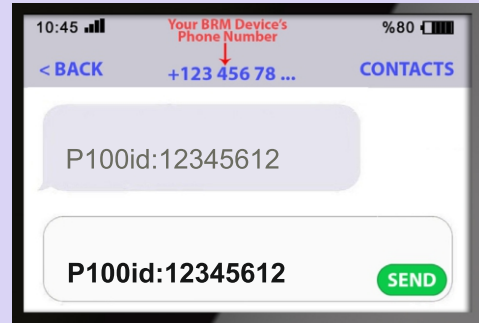
**IT IS THE SERIAL NUMBER THAT
THE CALL CENTER ASSIGNED TO THE DEVICE.**

After the "P100id:" write minimum 6,
maximum 12 characters.

When the above SMS is sent to the device, the
screen below should appear.

P100 ID CHANGED
SMS CMD 295 SEC

* REQUIRED

Major Phone Number
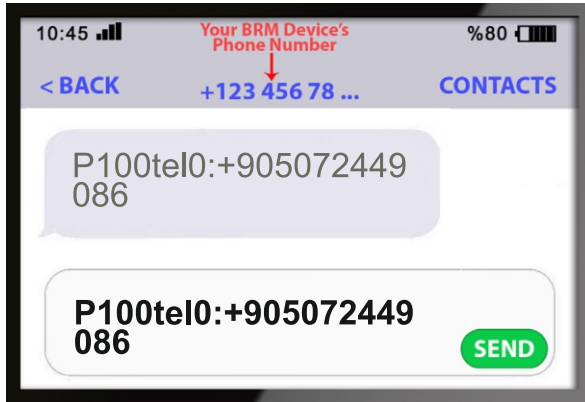
IMPORTANT:
THIS IS THE NUMBER WHERE
THE AUTOMATIC TESTS AND WARNING
DATA SHOULD BE SPECIFIED.

Firstly, you need to write "**P100tel0:**"
Secondly, write a phone number
max:20 characters
also first character will be "+".

When the above SMS is sent to the
device, the screen right should appear.

Numbers for Emergency Call

* REQUIRED

P100tel1:+905072449
086

**P100tel1:+905072449
086**   SEND
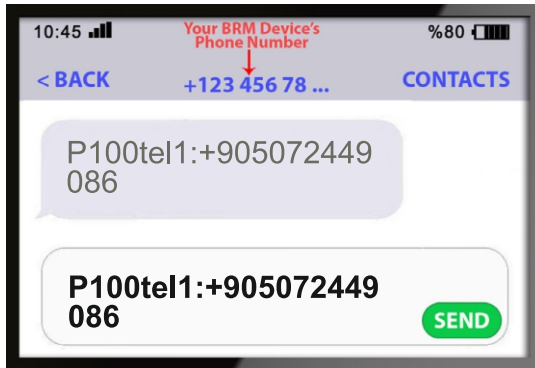
Firstly, you need to write "**P100tel1:**"
Secondly, write a phone number
max:20 characters also first character
will be "+".

When the above SMS is sent to the
device, the screen right should appear.

"**P100tel1:**" is for first call number.

You can identify 5 numbers to call.
The call happens one after the other.
*If the first number dialed does not answer,
it switches to calling the next one.*

Write other phone numbers like at
left screen
"P100tel2:+1234564567896" then send
"P100tel3:+1234564567896" then send
"P100tel4:+1234564567896" then send
"P100tel5:+1234564567896" then send

If **"INTERNET ERROR"** is written on the screen while your device is booting;

a- There is no internet on your SIM CARD inserted in the device. (Check it.)

b- The "APN" settings of the SIM Card inserted in your device **may be different.**

The "APN" setting in the factory settings of BRM devices is "internet",
If you want your device to work properly, ask your SIM CARD OPERATOR for your "APN" setting information.
If the "APN" information is different, follow the installation steps below:
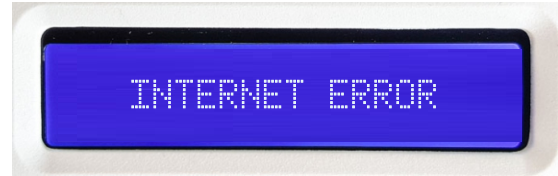
REGISTERING "APN" TO THE DEVICE BY SMS

STEP 1:
Enter the command mode with SMS. (See page 20 of the user manual.)
(Write **Setup:123456** and send it as an sms to the sim card inserted in the device.)

APN SETTINGS

STEP 2 Enter the APN Number
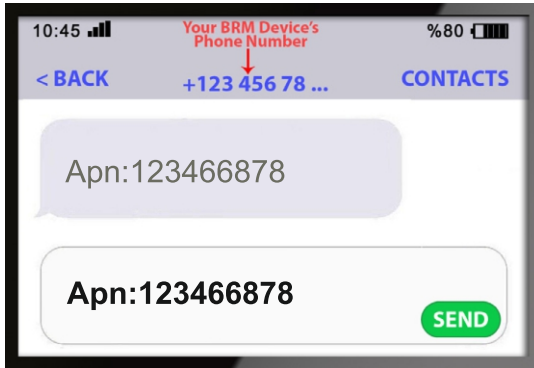
First, you need to type "Apn:".
Second, type the apn number you learned
from your SIM operator.

When the above SMS is sent to the
device, the screen right should appear.

STEP 3   If APN has user name and password

10:45 | Your BRM Device's Phone Number | %80
< BACK | +123 456 78 ... | CONTACTS

User:abcd123

User:abcd123   SEND

10:45 | Your BRM Device's Phone Number | %80
< BACK | +123 456 78 ... | CONTACTS

Pwd:123456

Pwd:123456   SEND
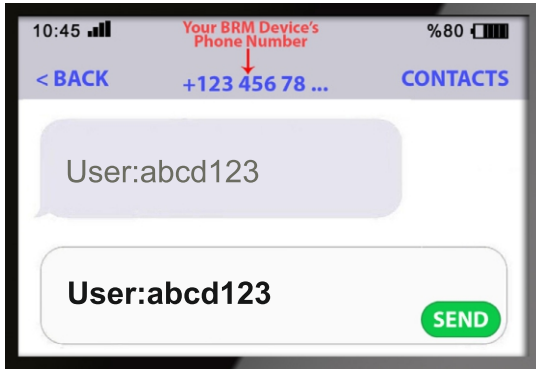
max. 16 characters
Don't use specific Turkish characters!

max. 16 characters
Don't use specific Turkish characters!

USER CHANGED
SMS CMD 296 SEC

PWD CHANGED
SMS CMD 296 SEC

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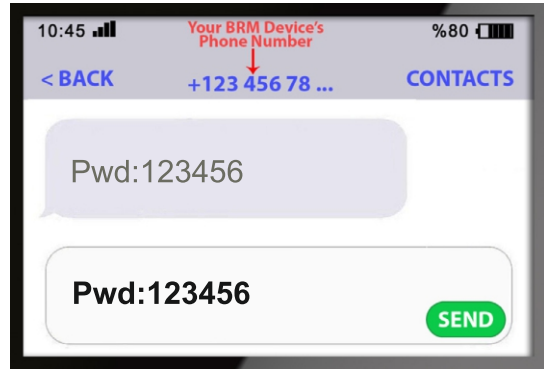
APN SETTINGS

Please check page 26th, then, for saving changed datas,
apply **"Save"** with SMS.
Then, close command screen with **"Exit"** command with SMS

4. STEP:
Restart your device.

Switching to Test Mode

1. The Alarm Termination button on the main module is pressed and released for 10 seconds like the left figure. TEST ON is displayed on the screen.

2. After 10 seconds after the cabin doors are closed, when the inside cabin alarm button is pressed for 20 seconds (This time can be adjusted via BRM CLOUD) the device switches to test mode after 3 times DIT sound. TEST ON is displayed on the screen. In this case, the in-cab alarm button is activated and calls can be made. Otherwise, the in-cabin button will not be activated unless there are alarm conditions .

Switching to Test Mode

3. While in test mode, SMS goes to the first registered phone number.

4. When the test mode is switched, the following information can be read on the screen.
- Telephone numbers
- Battery level
- Sound level
- imei no
- Status of the filters

You can likewise use option 1 or 2 to exit test mode..

Switching to Alarm Mode

- When pressed for max 3 seconds, it switches to alarm mode and makes a call via SIM.
- Calls intercom when pressed for 8 seconds

Seeing the BRM Software Version

By pushing the test button, you can see the software versions of the main module, top of the cabin and pit bottom.

Alarm Termination

After the recovery process takes place on BRM devices, alarm termination must be performed in order for the device and cloud system to record this process and reset the device. Alarm termination is done in 3 ways. When the alarm is terminated, a notification is sent to the first number registered in the system and to the **BRM CLOUD** system.

1- VIA BRM MAIN MODULE; The alarm termination process occurs by pressing the alarm termination button on the BRM main module for 3 seconds.

2- VIA BRM CLOUD: After the rescue operation is performed, when the call center realizes that nobody is left in the elevator, it gives an alarm termination command to the BRM main module over the cloud.

3- AUTOMATICALLY OF BRM MAIN MODULE: If the BRM main module has not terminated the alarm within 4 hours after the alarm. It checks the filters and ends the alarm if there is no alarm condition in the system.

- The **BRM-630** branded products have 5 (five) year warranty for manufacturing defects provided that principals, warnings and standards are followed determined in the manual.
- The Warranty Deed should be filled and stamped by the BRM ELECTRONIC authorized dealer whom you have purchased the device.
- Warranty Processes are only valid are only valid for activities that will be carried out by services approved by the BRM ELECTRONIC. The manufacturer and seller are not responsible for interventions of nonexpert and unauthorized people to the device.
- Repair period is 20 work days at most. This period starts as of the date when the device is delivered to our authorized sellers or company in case our authorized service workplace is not present. In case breakdown of the device is solved within 15 workdays, the BRM ELECTRONIC will provide a device with similar features to client until his device is repaired.
- The manufacturer company is completely responsible for determination of technical methods to apply in repairing the breakdown and parts to be changed. Repair can be carried out in situ of the device, authorized service workplaces or manufacturing site. Our clients must approve this. As of the date when the device is delivered, providing that it is within warrant period, in case
- The device becomes useless since the same breakdown is repeated within 1 (one) year or different breakdowns occur more than four times,
- Maximum period is exceeded for repair,
- It is determined that it is impossible to repair the device with the report issued by the authorized service workplaces, if not available, our Authorized Seller, Authorized Service personnel of the closest one to the region of Regional Representative, an exchange will be done freely.
- The time for repairs within the warranty period is added to warranty period.
- The warranty period of the exchanged goods during the warranty process is limited to resting warranty period of the purchased goods.
- The time for repairs within the warranty period is added to warranty period.
- For any problems that may be originated from the Warranty Deed, the T.R. Ministry of Science,

TERMS OF GUARANTEE

Industry and Technology and General Directorate of Consumer and Competition Protection can be applied.

- The T.R. Ministry of Science, Industry and Technology and General Directorate of Consumer and Competition Protection have granted permission to use this Warranty Deed pursuant to Law No. 4077 on Consumer Protection and the Communique on Principles of Applying Warranty Deed.

GENERAL METTERS EXCEPT WARRANTY

- Breakdowns, problems and damages occurring within matters and these items determined below will be non-warranty.
  - If the Warranty Label is falsified or removed
  - Damages and breakdowns occurring because the device is used contrary to matters in the Warranty Deed and out of purpose,
  - Damages and breakdowns originating from incorrect type selection,
  - If the device is not installed with equipment appropriately as shown in the installation image of the manual,

- If the device is used in too humid or watery environment,
- Damages and breakdowns originating from low or high voltage, using groundless socket, faulty electric wiring.
- Damages and breakdowns originating from maintenance and repairs done except services approved by the BRM ELECTRONIC,
- Damages and breakdowns originating from transportation, landing, loading, storing, external physical (crashing, collapsing, breaking) and chemical factors,
- Damages and breakdowns originating from environmental factors (earthquake, fire, flood, strong wind, stroke of lighting, humid, moisture, dust and frost). ALL THE ELEVATORS ARE CONTROLLED THROUGH THE BRM CLOUD. The devices determined to be used in different elevators of the BRM Electronic has no information shall be out of warranty.

www.brmelektronik.com

WARRANTY DEED

The T.R. Ministry of Science, Industry and Technology and General Directorate of Consumer and Competition Protection have granted permission to use this Warranty Deed pursuant to Law No. 4077 on Consumer Protection and the Communique on Principles of Applying Warranty Deed.

Manufacturer Company

Baremir Ltd. Şti. (Co. Ltd.)

İvedikköy Mh. Melih Gökçek Bulvarı,
Arıkanlar Grand Plaza
No:138/44
Yenimahalle / Ankara

Product Type:

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Elevator Emergency Communication Set

Product IMEI Number:

....

Customer
Name and Surname: ....
Address: ....
....
....
Phone: ....

Seller Company:
Title: ....
Addres:s ....
....
....
Phone: ....

Date: **STAMP /SIGNATURE**