



# BURGLAR ALARM PANEL BS-468/A



iOS

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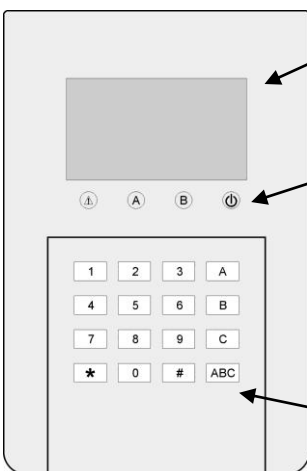
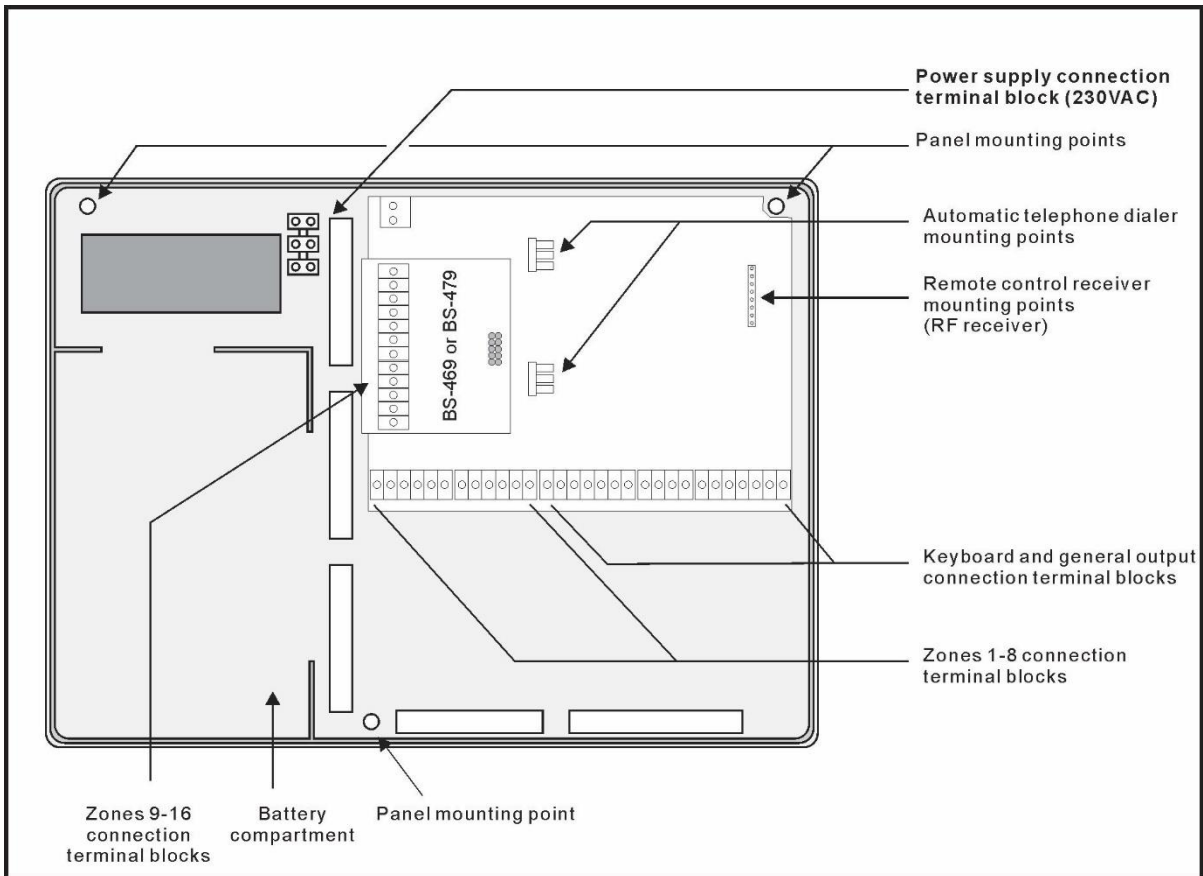
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<p><b>Thank you for your trust in our products. Olympia Electronics - European manufacturer.</b></p>
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# 1. Description

The BS-468/A is an 8 zone burglar alarm panel. Using the special expansion card BS-469 it can be expanded to 16 zones. Using the special expansion card BS-479, the panel acquires 32 wireless zones. For its operation, at least one BS-466 keyboard is required. Up-to 8 keyboards can be connected to the panel. Each keyboard has an additional zone for connecting magnetic contacts (zones 17–24). The main board of the panel has port for connecting an YET-205B-630 remote control receiver and an automatic telephone dialler. On the telephone dialler port, you can connect a BS-465 wired PSTN telephone dialler or a BS-464 wireless GSM telephone dialler.

The diagram below shows the interior of the panel and the keyboard.



**BS-466/A keyboard**

## Liquid crystal display

### Indication LEDs

- ⚠ Constantly lit means that there is an error, blinking means that there is an alarm
- A System fully armed
- B System partially armed
- 🔌 The panel power cord is connected

### USB port for panel control

### Control keypad

- 0-9: numbers
- “\*↵” : Enter button
- “#\_ESC” : ESC button
- A,B,C,ABC: Instant Arming without code
- C + ABC: Panic signal

## 2. User instructions

### 2.1. *Basic operations*

The panel has 1 main code (master code) which by default is set to [1 2 3 4] and up-to 50 user codes which by default are not programmed. The system can operate in two different modes. Depending on the mode of operation, the arm and disarm operations differ.

#### **Complete System**

In this case the system arms and disarms altogether.

**Arming** can be achieved by using the master code or one of the user codes. The arming of the system can also be done by simply pressing the ABC key during the installation if the option «ARM WITHOUT CODE» has been selected.

**Disarming** can be achieved by entering the master code or one of the user codes.

#### **Split System**

In this case the system operates as three independent subsystems. You can arm and disarm the whole system or each subsystem independent from the others.

**Arming of the whole system** can be done by using the master code or one of the user codes that have been programmed for general arming. The arming of the system can also be done by simply pressing the ABC key if during the programming the option «ARM WITHOUT CODE» has been selected.

**The disarming of the system** can be done by using the master code or one of the user code that have been programmed for general disarming.

**The individual arming of the subsystems A, B, C** can be done by pressing one of the user codes that have been programmed to arm each subsystem. The arming can also be done by pressing one of the A, B or C keys if during the programming « ARM WITHOUT CODE » has been selected. The arming of one subsystem does not affect the status (armed-disarmed) of the other subsystems.

**The individual disarming of the subsystems A, B, C** can be done by pressing one of the user codes that have been programmed to disarm each subsystem. The arming of one subsystem does not affect the status (armed-disarmed) of the other subsystems.

If during the arming procedure a zone is active then the keyboard shows the message:

SYSTEM CAN NOT ARM  
ZONE 05

KITCHEN  
\*: BYPASS ZONE  
#: CANCEL


Which means that on zone 5(kitchen) a window has been left open.

If we press (#) the arm command is canceled.

If we press (\*) or close the kitchen window we see:

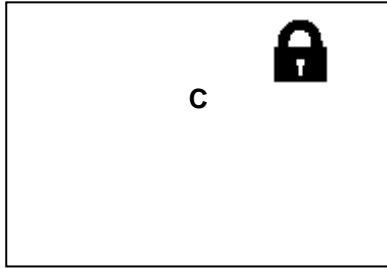
This message is shown for 1 second and immediately the arming process starts.

ZONES BYPASSED



READY TO ARM

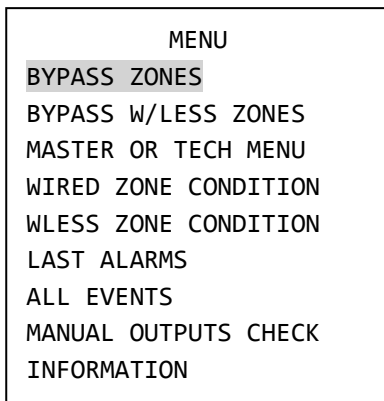
## 2.2. **Armed system indication**



When the system is armed, then next to the clock, instead of the Olympia electronics logo there is a lock symbol. Next to the lock symbol we can see which sections are armed. In this example we can see that the system is partially armed because only the C section is armed. If the system was fully armed then the symbols A, B, C would have been displayed. When the system is disarmed then the lock is removed and the Olympia electronics logo is displayed.

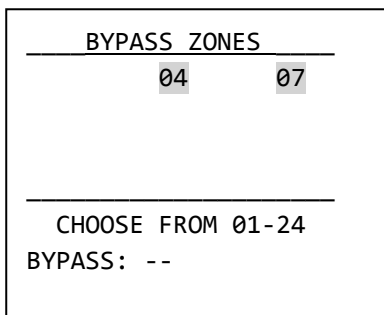
## 2.3. **Advanced operations**

By pressing the " \*← " key the display shows:



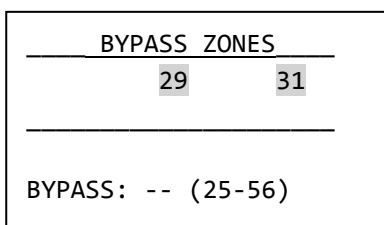
Using the up and down keys (keys 2 and 8), we can move the cursor upward or downward. By using the " \*← " key we can achieve the required selection. By using the " # ESC " we can go one level backwards or cancel a selection.

Selecting «BYPASS ZONES» we see:



We can select which zones are disabled (will not be armed) during the next arming of the system. For example, if we enter 04 and then immediately 07, this means that the next time the system is armed, zones 4 and 7 will be disabled. If a zone blinks, this means that it is preventing the system from arming. If it is blackened then this means that it is disabled. If it is blinking and blackened then this means that it is disabled but would prevent the panel from arming if it was not disabled.

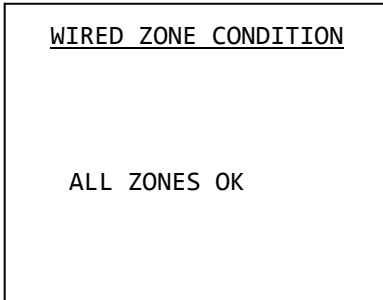
Selecting «BYPASS W/LESS ZONES» we see:



The same applies for wireless zones. The only difference is that the zone numbers are 25 - 56 (wireless zones).

For the selection «MASTER OR TECH MENU» you will find information in the section "Main User Menu" in a following page.

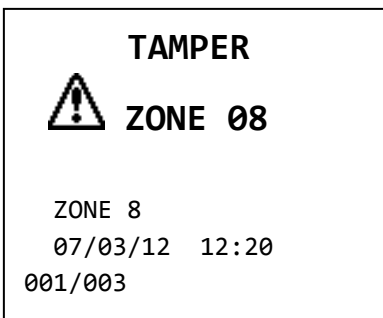
Selecting «WIRED ZONE CONDITION»:



In the following window we can test the good operation of the zones and the devices connected to them. For examples, if a magnetic contact of a window is connected to zone 4 and the window opens then the message of the display from «ALL ZONES OK» will be erased and the indication 04 will start blinking. As soon as the window closes, the screen will display the previous message «ALL ZONES OK». With this method we can test the good operation of all the detectors and magnetic contacts.

The same applies to «WLESS ZONE CONDITION», except the fact that the menu is dedicated to wireless zones.

By pressing «LAST ALARMS» we can view the alarms that were triggered during the last arming of the system. The display will be like the one below:

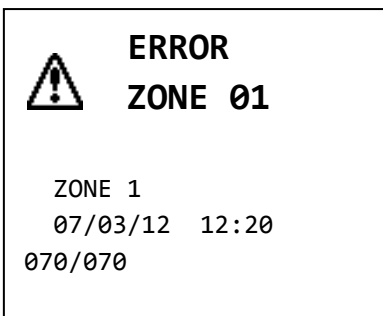


This means that an alarm was triggered for zone 8 which is a TAMPER zone (24 hour operation). The alarm was issued on 12:20 on 07 March 2012 and that is the first of 3 events.

Using the up and down arrows (keys 2 and 8) we can view all the registered alarm events.

The «LAST ALARMS» line is visible if an alarm has been triggered at least once.

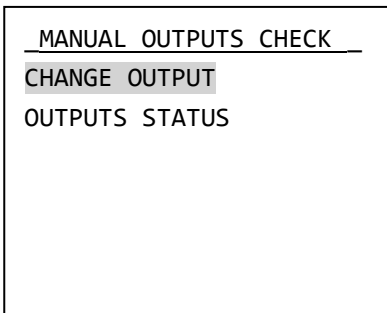
By selecting «ALL EVENTS» we can see all events that have happened and are stored in the panel's internal memory:



This means that an error event was triggered for Zone1 at 12:20 on March 07, 2012. It also informs us this is the 70<sup>th</sup> event of a total of 70 events. With the up and down arrow keys (2 and 8) we can see all the registered events.

The event memory has a capacity of 250 events and once filled the new event will erase the oldest. The events that are registered are errors, alarms, user and technician menu access as well as the arming and disarming of the system. The main user and the technician can both erase the events memory using there respective menus.

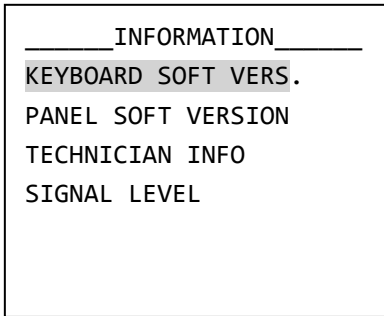
«MANUAL OUTPUTS CHECK»:



With "▲2" and "▼8" keys we can select the required option and by pressing " \*↵ " we can see or we can change the state of the output P1, P2, P3, RELAY.

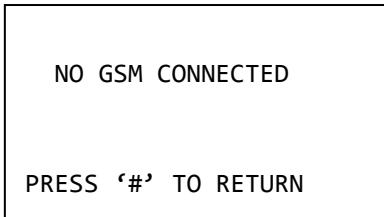
**Warning.** In order for an output to be able to change state from this selection it must be programmed as «ON-OFF MANUAL». When an output changes state, the device connected to it is activated. A manual change of the output sets the output to a permanent condition which can only change by manually changing the output again. It is suggested to use this selection with caution and only if we want to manually control a connected device.

By choosing «INFORMATION» in the menu we can see:



With "▲2" and "▼8" keys we be can transferred to the required option and select it by pressing the " \*← " key. We can get information about the keyboard firmware version, the panel firmware version, information regarding the technician supporting the system and the signal level (If a GSM card is connected).

The selection «TECHNICIAN INFO» by default has information of Olympia electronics.

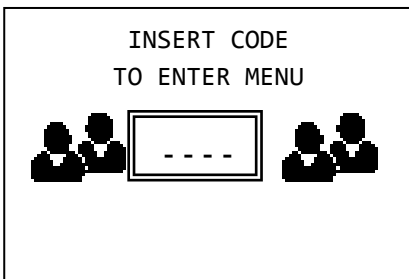


If "SIGNAL LEVEL" is selected and a GSM module is not connect- ed, then the following message is shown.

## 2.4. *Main User menu*

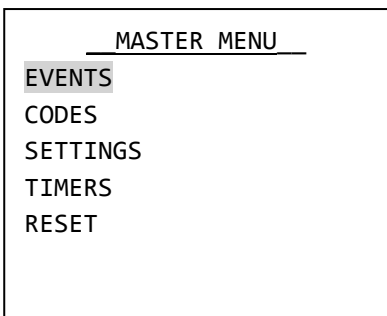
Through the user menu we can change critical parameters of the system. In order to enter the main user menu we must know the master code.

By pressing the " \*← " key, on «MASTER OR TECH MENU», we see the following screen:



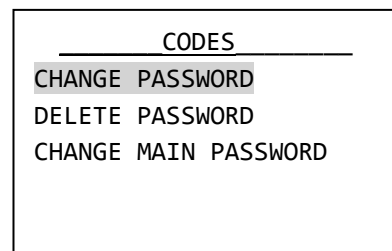
By default, the master code is **1234** but it is an option that can be changed by the user.

By typing the master code the next display shows:



With the «EVENTS» selection we can see all events or delete the events in memory. If we choose to erase the events memory, the system requests an extra confirmation and then erases all the events.

Selecting «CODES» option we can alter the master code or user codes or delete the user codes.



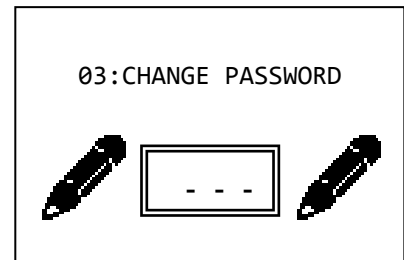
Through «CHANGE PASSWORD» option we can create or alter the user passwords. Up to 50 user passwords can be set and are named code01, code02 up to code50. By default all user passwords are inactive and it is up to the user in cooperation with the technician to create them during the installation phase. The technician will program the permissions for each code and the user

will insert the password four digits. It is not necessary this procedure to be done with both technician and user present.

If we want to alter a password, we select «CHANGE PASSWORD»:



We enter the number of the password (i.e. 03) which we want to change and we see:

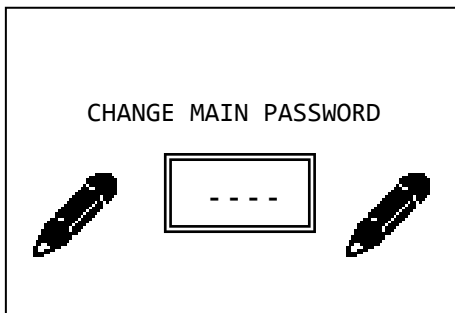


After entering the new 4-digit password the system requests us to repeat it again. We enter again the same 4 digits. If the codes match, then the change is made and the display shows the relative message.

After entering the 4 new digits the system request us to repeat them. We enter the 4 digits again. If the codes match then the change is made and the display shows the relative message.

If we want to delete a password, from the CODES menu select «DELETE PASSWORD». We enter the number of the password that we want to delete. After that the system deletes the password.

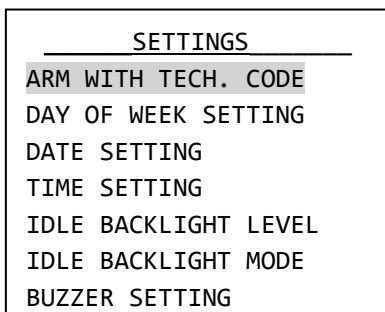
If we want to change the main password, from the CODES menu select «CHANGE MAIN PASSWORD». By pressing the key (\*) we see:



After entering the 4 new digits of the password we are prompted to repeat the process. We enter again the 4 digits and if they match we the previous entry then the display shows the relative message and the change is made. To enter the user menu we must use the new main password.

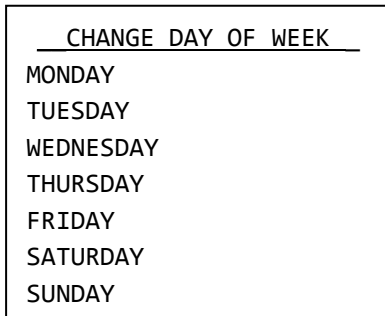
**Warning!!** By default the main password is 1 2 3 4. The user must change this password immediately after the installation of the system is finished.

Selecting from the MASTER MENU the option «SETTINGS» we see:



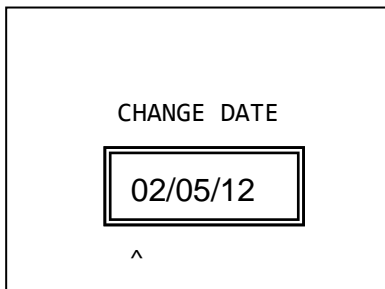
With the selection «ARM WITH TECH. CODE» we can have the system armed or disarmed by using the password of the technician. By default this selection is set to NO.

«CHANGE DAY OF WEEK» :



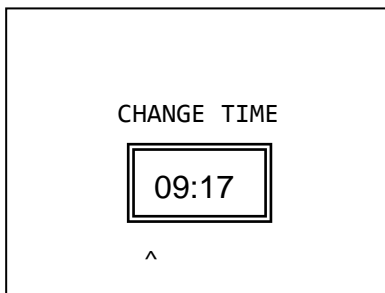
Using keys "▲2" and "▼8", we can transfer to the required option and select it by pressing the " \*↵ " key.

By selecting «DATE SETTING» we see:



We enter system date by typing the day first, following by month and lastly the 2 last digits of the year.

With the selection «TIME SETTING» we see:



We enter the hour (in 24 hour format) and then the minutes. After a while the display shows a confirmation message.

It is important that the above settings are made correctly in order to have accurate logging of the events where the time and date are also logged along with the event.

With the selection «IDLE BACKLIGHT LEVEL» we select the brightness of the display when the system is idle. By default the selection is set to 40%. **The specific option is NOT available on BS-477 wireless keyboard.**

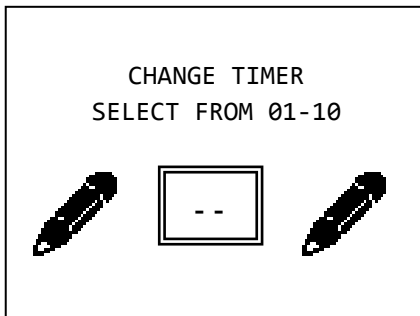
With the selection «IDLE BACKLIGHT MODE» we can set the way the display is illuminating when active. There are 3 options:

- ALWAYS OFF. The display is illuminated after pressing any key. The brightness level drops to the idle backlight level after 1 minute.
- ONLY WHEN DISARMED. The display is always illuminated when the system is disarmed. When the system is armed the display illumination turns ON after a key is pressed and the brightness level drops after 1 minute.
- ALWAYS ON (DEFAULT). The illumination of the display is always ON. This selection reduces the autonomy of the system in case of power failure.

**The specific option is NOT available on BS-477 wireless keyboard.**

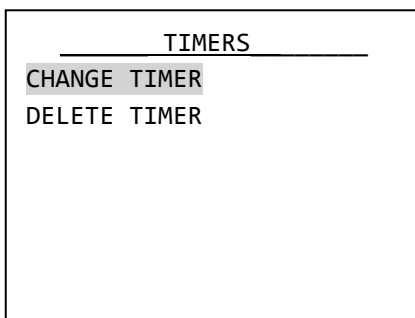
Altering «BUZZER SETTING» we can select the way the buzzer sounds. «SOUNDS TO ALL EVENTS» is the default option and the buzzer sounds to every key press always. If the user chooses the «SOUNDS TO ALARM ONLY» option, the buzzer will make the characteristic sound only if an alarm has occurred.

«TIMERS» menu:



With this selection we can program up to 10 automatic arming or disarming procedures of all or part of the system. Selecting «TIMERS» we see the display to the left.

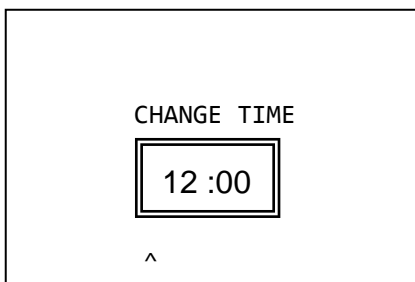
The user has to enter a timer number. The following screen appears.



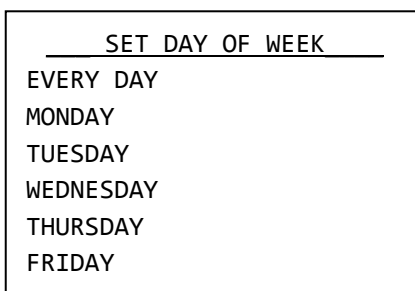
If the «CHANGE TIMER» is selected it means that the timer is active. If the «DELETE TIMER» is highlighted then this means that the timer is inactive. The inactive timer always has a default time of 12:00

The selection «CHANGE TIMER» is also used to create a procedure.

By selecting «CHANGE TIMER» we see:

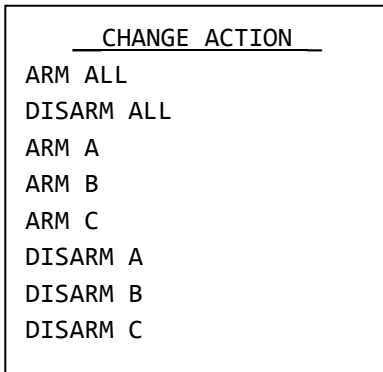


The user selects the time that the specific timer will be activated.



The user selects the day of the week that the timer will be activated. If «EVERY DAY» is selected, the timer will be activated every day.

After pressing " \*↵ " we see the following screen:

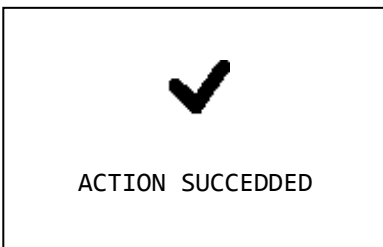


We choose the function that the timer will perform and press the key " \*↵ ". The system confirms the selection.

The event memory logs the arming or disarming of the system but also shows that the event has been launched by a timer.

In case a user chooses «DELETE TIMER», the specific timer will be deleted.

Last choice of "MASTER MENU" is «RESET».



The specific operation erases all warnings and faults from the initial screen. The operation also deletes faults that happened in a past time and do not exist anymore. If for example an SMS could not be delivered in a past time and the user press «RESET», the specific warning will be deleted. But if a battery is disconnected, by pressing «RESET», the specific fault will not be deleted since that fault still exists. The screen to the left is what a user gets after pressing " \*↵ " at «RESET» menu line.

At the end of this manual, there are some pages called "Information regarding the installation". These pages must be filled in cooperation with the technician and must be kept in a safe place. In case a warning or a fault occurs, these pages will help the technician to complete his job fast and securely.

## 3. Installation instructions

### 3.1. *Quick installation guide*

By default the panel has the following settings

Zone 1 : Zone with delay                      section A  
Zone 2 : Zone with delay                      section B  
Zone 3 : Zone without delay                section B  
Zone 4 : Zone without delay                section B  
Zone 5 : Zone without delay                section A  
Zone 6 : Zone without delay                section A  
Zone 7 : Zone without delay                section A  
Zone 8 : TAMPER zone  
Zone 17 (keyboard 1) : Zone with delay section A  
Entry time : 20 seconds  
Exit time : 45 seconds  
Siren time : 1 minute  
Additional exit time : 20 seconds

We can return to this state if we select «MASTER OR TECH MENU» → «SYSTEM» → «RESET DEFAULTS» logged in as "TECHNICIAN". With these settings we can do a simple and typical installation in a residence with an additional perimeter alarm.

Connect to zone1 or to the zone of the keyboard the magnetic contact of the main entrance door. On zone 2 the radars that monitor the entrance area. On zones 3 and 4 the rest of the radars and on zones 5 to 7 the magnetic contacts that we require to give an immediate alarm. Finally on zone 8 connect the TAMPER of the external siren. We can either arm section A (perimeter alarm) when we are in the house or all the system (ABC).

For connection methods see the next section «**CONNECTION**».

There are 6 pre-made programs that you can select via the technician menu and from the selection «SYSTEM» and «LOAD PANEL SETTING » (see page 28). These are:

1. Zone 1 : Zone with delay                      section A                      with bell sound  
    Zone 2 : Zone with delay                      section A  
    Zone 3 : Zone without delay                section A  
    Zone 4 : Zone without delay                section A  
    Zone 5 : Silent                                section A  
    Zone 6 : Panic                                section A  
    Zone 7 : Fire                                 section A  
    Zone 8 : TAMPER zone  
    Zone 17 (keyboard 1) : Zone with delay section A

This configuration is suitable for a store. Connect to zone 1 or to the zone of the keyboard the entrance magnetic contact. On zone 2 the radars that monitor the entrance area. On zone 3 and zone 4 the rest of the radars and the magnetic contacts that we require to give an immediate alarm. On zone

5 connect a manual button for a silent alarm in case of threat, on zone 6 the panic button and on zone 7 the fire detectors. Finally on zone 8 connect the TAMPER of the external siren.

All zones are on the same section and the system arms and disarms all together. On zone 1 the magnetic trap activates the bell on the keyboard to warn us that the door has opened.

- 2. Zone 1 : Zone with delay section A
- Zone 2 : Zone with delay section B
- Zone 3 : Zone without delay section B
- Zone 4 : Zone without delay section C
- Zone 5 : Zone without delay section C
- Zone 6 : Zone without delay section A
- Zone 7 : Zone without delay section A
- Zone 8 : TAMPER zone
- Zone 17 (keyboard 1) : Zone with delay section A

This configuration is suitable for a 2-story house. Connect to zone 1 or to the zone of the keyboard the entrance magnetic contact. On zone 2 the radars that monitor the entrance area. On zone 3 the remaining radars of the ground level floor, on zones 4 and 5 the radars of the first floor and on zones 6 and 7 the magnetic contacts of the ground floor and the first floor respectively. Finally connect the TAMPER of the external siren to zone 8. By arming section A we have a parametric alarm, with the arming of section A and B we have a parametric alarm with the simultaneous operation of the ground floor radar detectors and if we arm sections ABC we have full operation of the system.

- 3. Zone 1 : Zone with delay section A With bell sound
- Zone 2 : Zone with delay section A
- Zone 3 : Zone without delay section A
- Zone 4 : Zone with delay section B
- Zone 5 : Zone with delay section B
- Zone 6 : Zone without delay section B
- Zone 7 : Zone without delay section B
- Zone 8 : TAMPER Zone
- Zone 17 (keyboard 1) : Zone with delay section A

This configuration is suitable for a house-store combination using the same alarm panel and the same siren. Connect on zone1 or on the keyboard zone the magnetic contacts of the store entrance. On zone 2 the radars that monitor the entrance area of the store. On zone 3 the remaining radars or magnetic contacts of the store. On zone 4 the magnetic contact of the house entrance, on zone 5 the radars that monitor the entrance of the house and on zones 6 and 7 the remaining radars and magnetic contacts of the house. Finally on zone 8 connect the TAMPER of the external siren. By arming section A we have an alarm system only for the store, by arming section B we have an alarm system only for the house and by arming section ABC we have an full alarm system for both the store and house.

- 4. Zone 1 : Zone with delay section A
- Zone 2 : Zone without delay section A
- Zone 3 : Zone without delay section A
- Zone 4 : Zone without delay section A
- Zone 5 : Zone without delay section A
- Zone 6 : Zone with delay section B
- Zone 7 : Zone without delay section B
- Zone 8 : TAMPER Zone

Zone 17 (keyboard 1) : Zone with delay section A

The above configuration is identical to the previous one but with more zones dedicated to the store.

- 5. Zone 1 : Zone with delay section A
- Zone 2 : Zone with delay section A
- Zone 3 : Zone without delay section A
- Zone 4 : Zone without delay section A
- Zone 5 : Silent section A
- Zone 6 : Panic section A
- Zone 7 : Fire section A
- Zone 8 : TAMPER Zone
- Zone 9 : Zone without delay section A
- Zone 10 : Zone without delay section A
- Zone 11 : Zone with delay section B
- Zone 12 : Zone with delay section B
- Zone 13 : Zone without delay section B
- Zone 14 : Zone without delay section B
- Zone 15 : Zone without delay section B
- Zone 16 : Zone without delay section B
- Zone 17 (keyboard 1) : Zone with delay section A

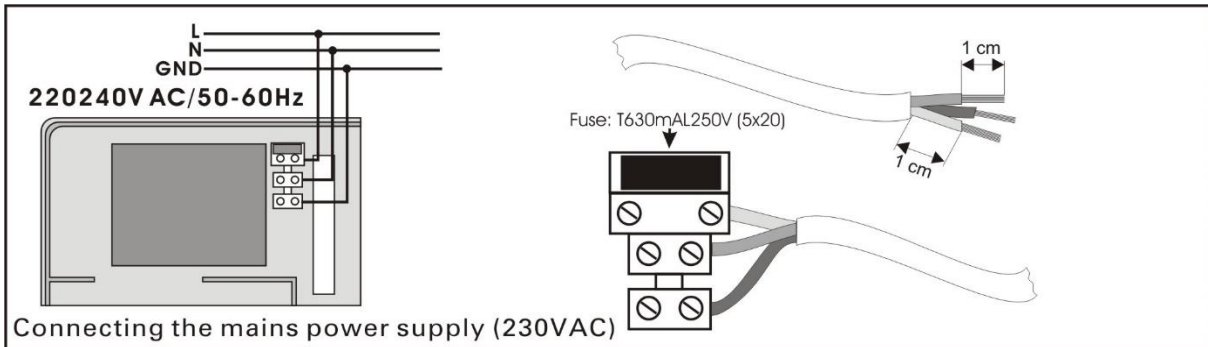
This configuration is suitable for a large store with sections A, B present.

- 6. Zone 1 : Zone with delay section A
- Zone 2 : Zone with delay section A
- Zone 3 : Zone without delay section A
- Zone 4 : Zone without delay section A
- Zone 5 : Zone without delay section A
- Zone 6 : Zone with delay section B
- Zone 7 : Zone with delay section B
- Zone 8 : TAMPER Zone
- Zone 9 : Zone without delay section B
- Zone 10 : Zone without delay section B
- Zone 11 : Zone without delay section B
- Zone 12 : Zone with delay section C
- Zone 13 : Zone with delay section C
- Zone 14 : Zone without delay section C
- Zone 15 : Zone without delay section C
- Zone 16 : Zone without delay section C
- Zone 17 (keyboard 1) : Zone with delay section A

This configuration is suitable for a big store with sections A, B and C present.

## 3.2. Connections

### Connecting the battery and the mains power supply

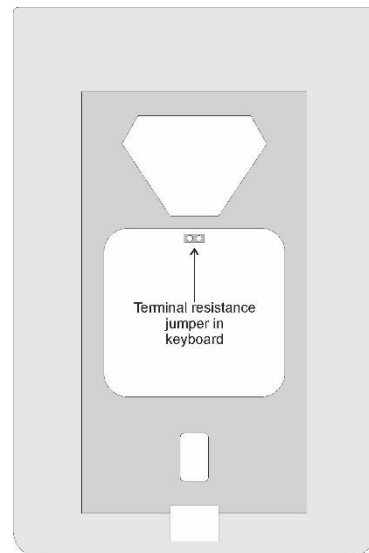
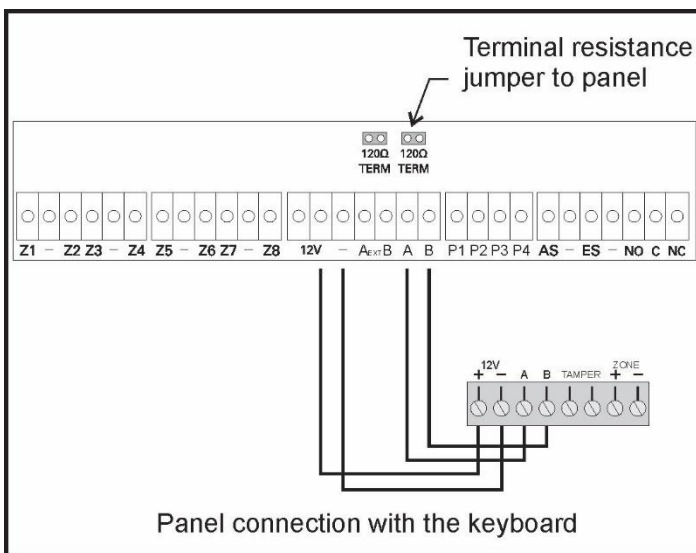


As far as the battery is concerned, there are two cables, red and black for connection to the positive and negative pole respectively.

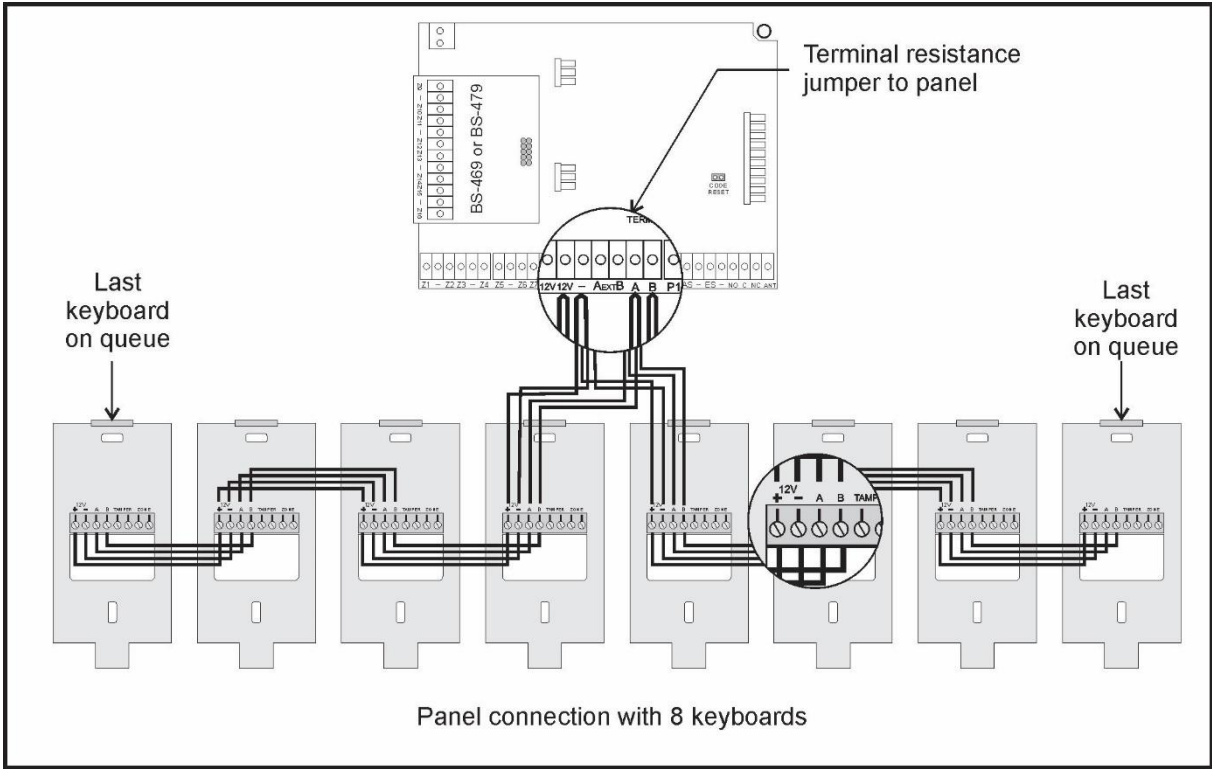
### Keyboard connections

In order to simplify the installation procedure, the keyboard has two parts, the base and the main body. The base is the part that must be mounted to the wall. It contains only the connections terminals and a small alignment vial that is used to correctly mount the base. After connecting the cables, the main body is fastened to the base. A screw on the bottom side does not permit accidental removing of the main body from the base.

To connect the panel to the keyboard of keyboards use the terminals 12V, -, A and B. Respective terminals are also found on the keyboard. The connection is a typical RS-485 connection and requires a terminal resistor on the two outmost devices.




Connecting a keyboard to the panel. The jumper for the terminal resistor must be placed in order to make contact with the 2 pins (activated terminal resistors).

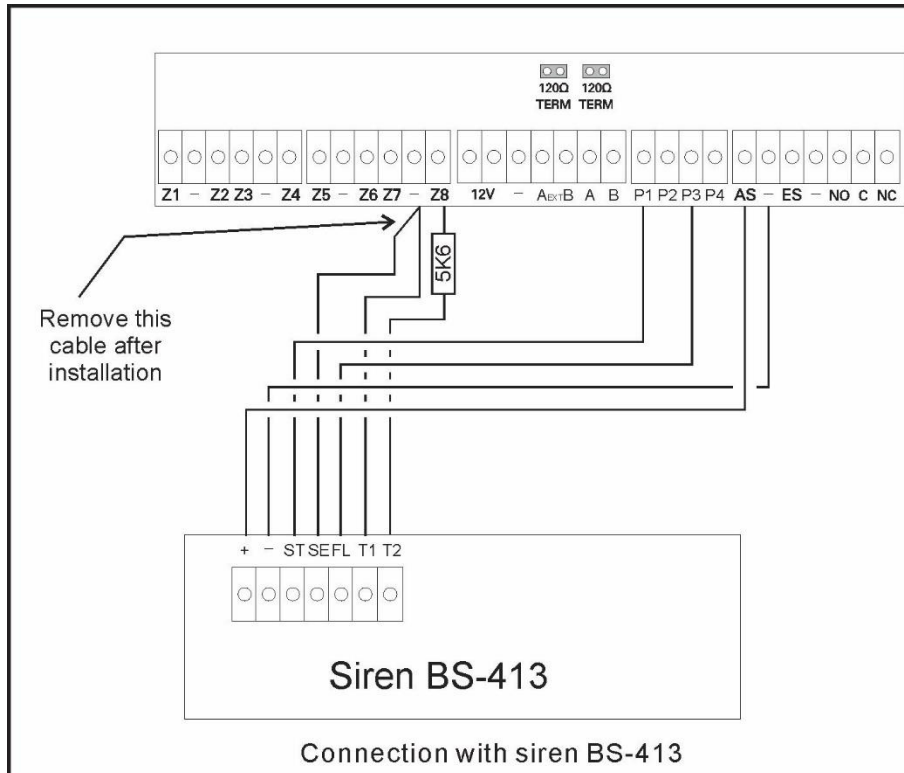


Connecting 8 keyboards to the panel. The cables must be connected in such a way that will permit the connection of the device one after the other. No terminal should contain 3 cables or more. The jumpers of the terminal resistors must be placed only on the two outermost devices. On all the other devices is should be removed or left in a open position.

This same connection can be used if we want to connect 2 to 7 keyboards.

 Outputs EXT A, B are not used at present time.

## Siren connections



For connecting the autonomous siren type BS-413 up-to 7 cables are required.

On the terminals (+) και (-) connect the voltage (AS), (-) which charges the siren.

When we supply the (ST) with 12V the siren and the beacon are activated. Connect (ST) to the P1 contact of the panel which is programmed to provide 12V during an alarm and 0V during the idle state.

When the (SE) terminal is connected to (-) it prohibits the siren to operate. This cable is connected to a (-) terminal of the panel during the installation procedure or any other time that the cover of the siren must be removed (i.e. during a battery change). In normal operation the cable must be removed from the (-) terminal of the panel.

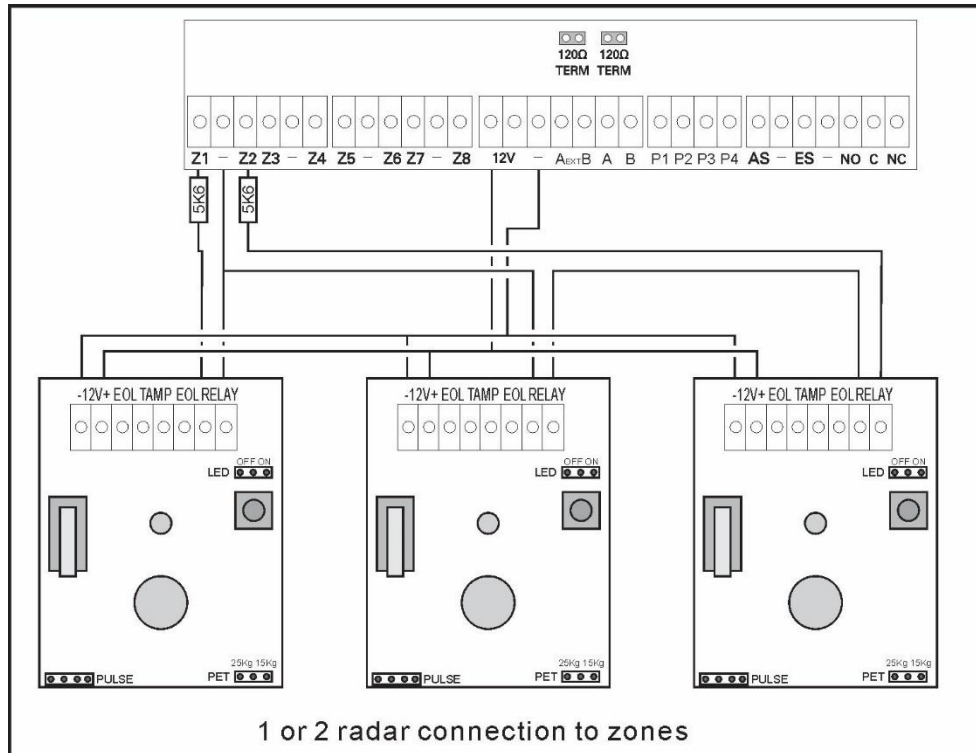
When the (FL) terminal is supplied with 12V the beacon is activated. If it is connected to the terminal P3 of the panel then the beacon will flash once for 2 seconds when the panel is armed and three times (0.5 second duration) when the panel is disarmed.

The contacts (T1) and (T2) are the TAMPER contacts of the siren which are connected to a respective zone on the panel which by default is zone 8 (TAMPER zone).

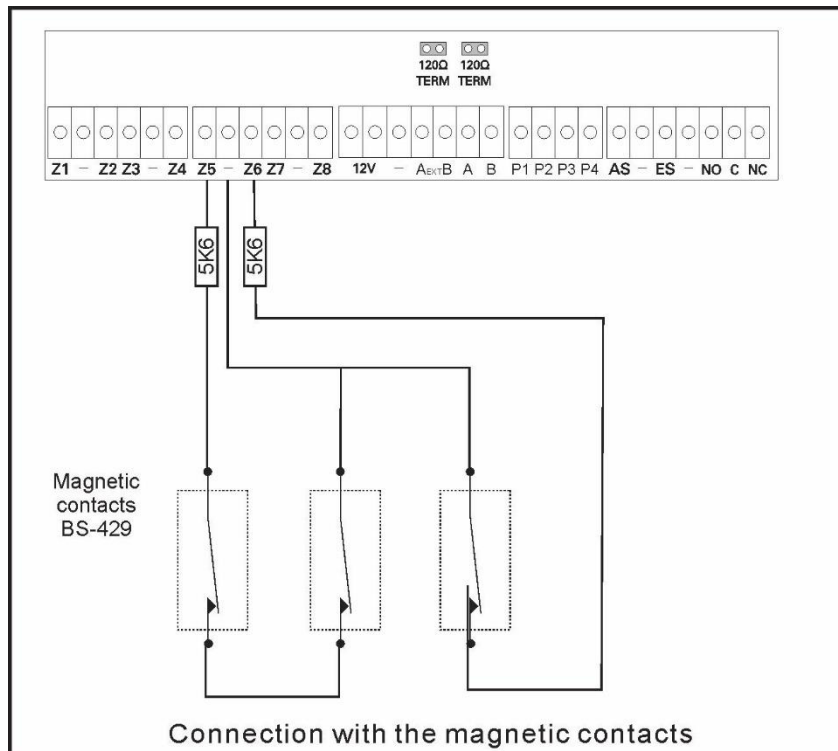
To connect an internal siren BS-441, two cables are required. Connect the (ES) and (-) of the panel to the respective (+) and (-) of the siren.

Each panel can accept up-to 2 external autonomous and 1 internal siren.

## Zone connections



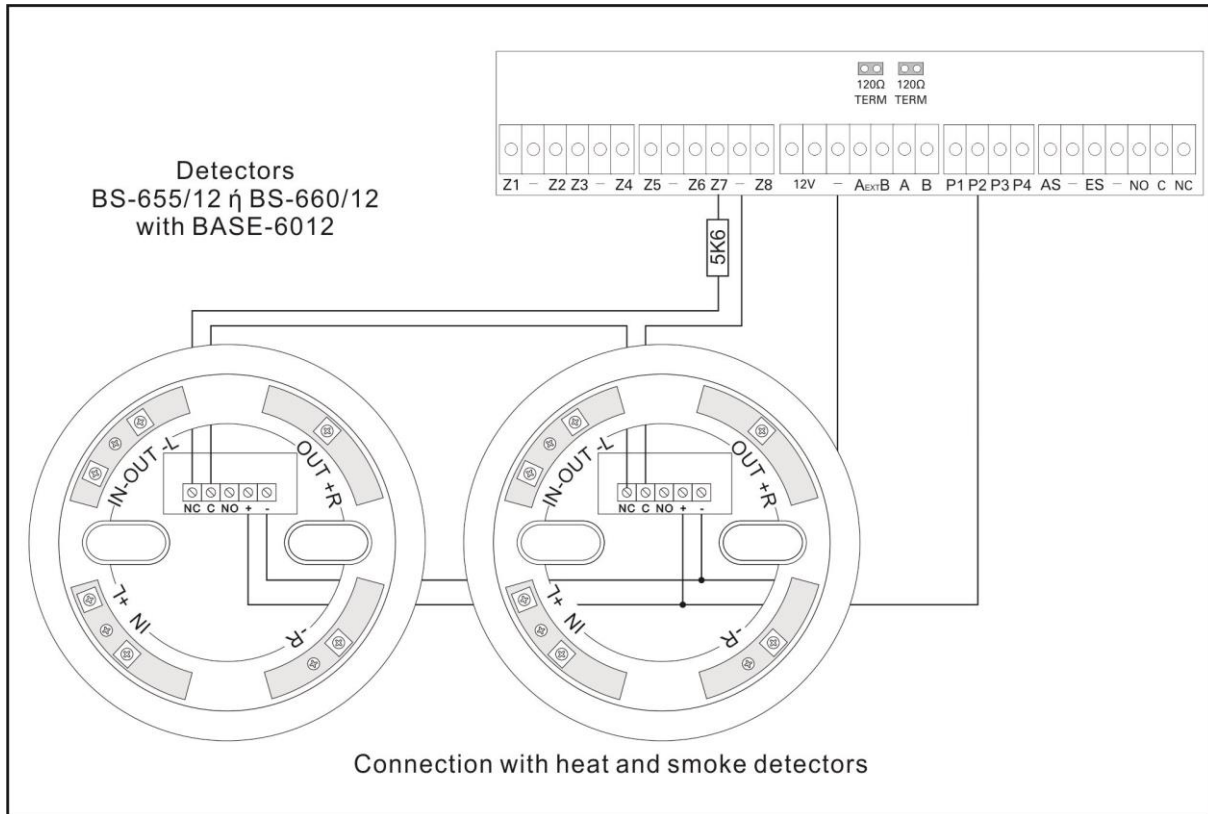
Connecting the panel with radars (infrared movement detectors, PIR) or other devices which require power. For the connection, 4 cables are required (6 if the TAMPER is connected). The 2 cables are connected to the (12V) and (-) of the panel and provide power to the respective terminals of all the detectors. The other 2 cables connect in series the contacts RELAY (NC) of all the detectors of the zone and the resistors found on the terminals of the panel. The diagram above provides examples for connecting 1 or 2 detectors on the zones.



For the connection of magnetic contacts or other devices that do not require power only 2 cables are required.

The diagram to the left shows the connections with one or two magnetic contacts on the zones.

## Connection of smoke and heat detectors



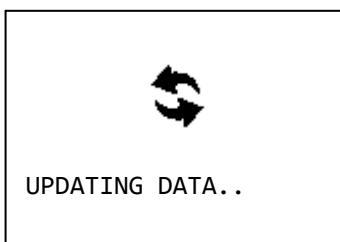
The connection of the fire detectors is possible only if the zone which are connected is programmed as a «FIRE» zone. The normally closed contacts of the relay on the base (NC,C) are connected in series with the resistor of the zone of the panel.

The power to the base is done using (-) and the output P2 which by default is programmed as «SUPPLY FIRE DETECTOR».

### 3.3. Programming through the keyboard

When a user tries to change a setting in the user menu or the technician menu he can view the current value of the setting in BS-466/A, but in BS-477 the cursor always goes to the first line of the selections. The only menus that do not offer the preview of default values are menus «CALL ON» on the PSTN and GSM, as well as the 2 menus «EVENTS NOTIFICATION» of the ARC (Alarm Receiving Center) of the PSTN and the GSM.

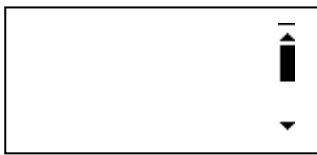
When a value is entered (i.e. entry time), and after the last digit is entered, the value is stored automatically without the need of pressing an additional key. If the user does not reach the last digit of the value and " \*← " is pressed, then the value that is shown on the display is stored in BS-466/A, but for BS-477 we must register all values to the end of the selection. There is always an indication on the display that shows which digit is edited. This is shown with the symbol '^' under the current digit.



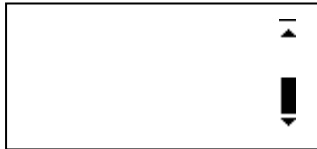
When the adjacent display is shown, the system is in the process of an important process which cannot be stopped by using the keyboard. When the process finishes, the display will show the main menu. If a problem occurs during the process then a relative message will be shown before the return to the main menu.

Sometimes a menu can contain content that cannot be shown in one

screen. In this case a scroll bar is shown and we can change screens using keys "▲2" and "▼8". The scroll bar looks like the symbols below:



This shows that there is a next page after the current one.



This shows that there is a previous page above the current one.

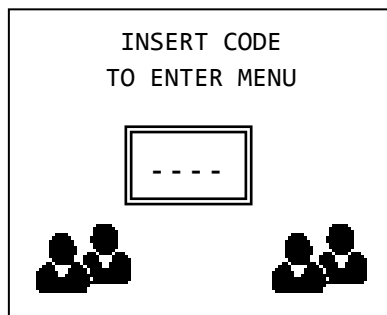


This means that there is a previous and a next page.

**For entering a menu:** While on the initial screen, press " \*↵ " and select an option with keys "▲2" and "▼8".

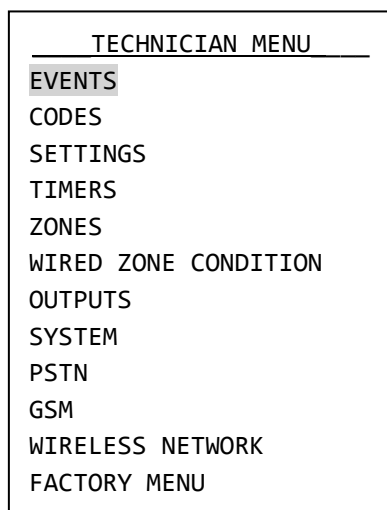
### Panel programming as TECHNICIAN

From the initial screen (olympia logo and clock) press " \*↵ ", go to «MASTER OR TECH MENU» and press " \*↵ " again. The following screen appears:



The technician password by default is **9999** but can be changed by the technician that installs the panel. It is noted that in BS-466 / A in 'Technician Menu' if no key is pressed for 2 hours, the keypad returns to the main screen, exiting the Technician Menu. In BS-477 this time is 15 minutes.

By entering the technician's password we enter the technician menu. The following screen appears:

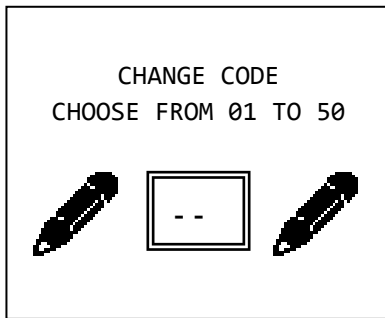


By selecting the «EVENTS» option we can go through all the logged events of the system by selecting «ALL EVENTS» or erase the events log by selecting «CLEAR EVENTS LOG». If we make this selection the system asks for a confirmation and then erases the entire events log.

The «CODES» option permits us to change the technician's password and change the operation method of the user passwords.

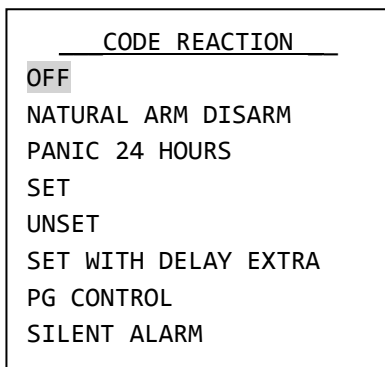
## Programming passwords functions

«CODES» → «CHANGE CODE»



Through this option we can select the way that each user's password works.

We enter the number of the code that we want to alter and we see the following screen:



For each code we must make one of the following selections which mean:

«OFF». The password is present but does not have any function.

«NATURAL ARM DISARM». The password arms and disarms the panel. By pressing " \*↵ " we must select the section that the password affects. We select A, B, C or ABC. By default all passwords are set for «NATURAL ARM DISARM» and for section ABC.

«PANIC 24 HOURS». This password gives a panic alarm, no matter what is the state of the panel.

«SET». The password arms (does not disarm) the panel immediately. Making this selection and pressing " \*↵ " we must select the section that is affected by the password. We can select A, B, C or ABC.

«UNSET». The password disarms (does not arm) the panel immediately. Making this selection and pressing " \*↵ ", we must select the section that is affected by the password. We can select A, B, C or ABC.

«SET WITH DELAY EXTRA». The password arms only (does not disarm) the panel but with an exit delay that equals with : EXIT TIME + EXTRA EXIT TIME. Making this selection and pressing " \*↵ ", we must select the section that is affected by the password. We can select A, B, C or ABC. The extra delay exists either there are zones with delay either not in the same section.

«PG CONTROL». The password activates or deactivates one of the controllable outputs. Making this selection and by pressing " \*↵ " the user selects the output that the password affects. We can select P1, P2, P3 or RELAY.

«SILENT ALARM». The code activates the silent alarm. When the user enters the code, the panel will disarm (if the panel is armed) and will remain in idle state (the siren will not sound, and the alarm leds will be off). The panel will call or send a message via BS-465 or BS-464 to the selected telephone numbers.

## General settings

«TECHNICIAN MENU» → «SETTINGS» :

SETTINGS
DAY OF WEEK SETTING
DATE SETTING
TIME SETTING
ENTRANCE TIME
EXIT TIME
ALARM TIME
EXTRA EXIT TIME
SECTIONS EXIT TIME
ENTRANCE DELAY BEEPS
EXIT DELAY BEEPS
BEEP PARTIALLY ARMED ARM WITHOUT CODE
ARMED SYS INDICATORS
IDLE BACKLIGHT MODE
BUTTON PANIC
RECORD OUTPUTS EVENT
AUTOMATIC BYPASS
REMOTECONTROL ACTION
ANNUAL CHECK WARNING

From this menu we can adjust all the general settings of the panel. The first 3 options are described on the "Master user Menu" section of the manual (Page 10).

«ENTRANCE TIME». That is the delay between a device (trap, radar etc.) triggering and an alarm event. This option is valid only for zones that have been programmed as zones with delay. By pressing " \*↵ " a new screen appears and the current entrance delay is shown (30) in seconds. Enter the new time (05-99, 2 digits are mandatory) i.e. 0 and 9 for 9 seconds. The system stores the value and returns to the menu «SETTINGS».

«EXIT TIME». That is the time from when the arming password is entered until the actual arming of the system. Pressing " \*↵ " reveals a new screen where the current exit time is shown. By default it is 45 seconds. We enter the new required exit time with 2 digit numbers (00-99, 2 digits are mandatory) i.e. 6 and 0 for 60 seconds. The system stores the value and returns to the menu «SETTINGS».

«ALARM TIME». It is the time that the siren will stay active. This time counts from the instance that all activation devices have stopped activating the panel. Select 1 or 2 minutes. The system stores the value and returns to the menu «SETTINGS».

«EXTRA EXIT TIME». It is the extra time that is added to the "EXIT TIME". It is used when a user arms the panel with a «SET WITH DELAY EXTRA» code or the zone is declared as "ZONE NEXT DELAY".

«SECTIONS EXIT TIME». With this selection we define if sections A, B, C have an arming delay. We must reply YES or NO for each subsection.

«ENTRANCE DELAY BEEPS». A user can select YES if he wants the built-in buzzer to sound during the entry countdown.

«EXIT DELAY BEEPS» A user can select YES if he wants the built-in buzzer to sound during the exit countdown.

«BEEP PARTIALLY ARMED.» Select if the built-in buzzer will sound during the exit time in case of a partial arming of the system (section arming A, B or C).

«BEEP PARTIALLY ARMED» Select if the system can be armed without a password, with the use of the keys A. B. C. ABC. The selection only affects the arming, for the disarming a password is always required.

«ARM WITHOUT CODE». Indicates that the system can be armed just by pressing A, B, C, ABC. The default selection is "YES".

«ARMED SYS INDICATORS». We have 2 selections «OFF» or «ON». The default selection is "ON". When the option is enabled, the LED indicators are lit when the panel is armed. The indicators are always lit when the panel is disarmed. **This option is not valid on wireless keyboard BS-477.**

«IDLE BACKLIGHT MODE». This option affects the illumination of the display and the keypads during the idle state of the system. The idle state is the state where there is not alarm and no key has been pressed for 30 seconds. We have 3 options. ALWAYS OFF, ONLY WHEN DISARMED which means

OFF on an armed system and ON on a disarmed system and ALWAYS ON. **This option is not valid on wireless keyboard BS-477.**

«BUTTON PANIC» We select if a panic signal alarm can be issued from the keyboard. If we select YES, then, when a user presses simultaneously the keys C and ABC for two seconds, a panel alarm will be produced. **This option is valid on wireless keyboard BS-477 too, but by pressing "# Esc" button for 5 seconds.** This key works even if the system is armed.

«RECORD OUTPUTS EVENT». We select whether the state of the outputs will be logged as individual events (P1, P2, P3 and RELAY) or not.

«AUTOMATIC BYPASS». By selecting YES, all zones that have been programmed with bypass capabilities (see zone programming), are bypassed automatically, if during the arming sequence they are active (i.e. an open window). When the zones are deactivated (i.e. the window has closed) they are automatically activated. If we select NO, then, if there are active zones during the arming procedure, the system will request a bypass confirmation for each active zone.

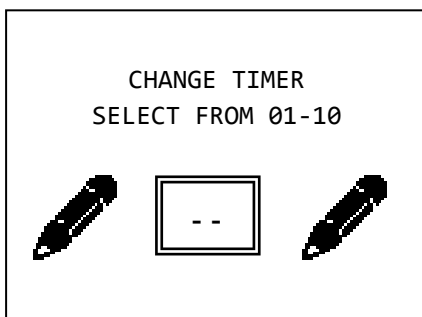
«REMOTECONTROL ACTION». We select the operation mode of the remote control (if available). The available actions are "ARM-DISARM", "PANIC", "ALL FUNCTIONS" and "DEACTIVATION". When "ALL FUNCTIONS" is selected, we can perform arming, disarming, panic alarm and silent alarm. For wireless operation use the YET-205B-630 remote control receiver and RF-467 remote control transmitter.

«ANNUAL CHECK WARNING». By selecting YES, the system will issue a reminder signal after 1 year of operation, in order to notify the user for the annual technical inspection.

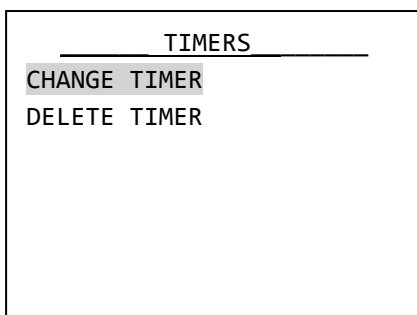
### Automatic arming-disarming

«TECHNICIAN MENU» → «TIMERS» :

With this selection we can program up to 10 automatic arming or disarming procedures of all or part of the system. Selecting «TIMERS» on the next screen appears:



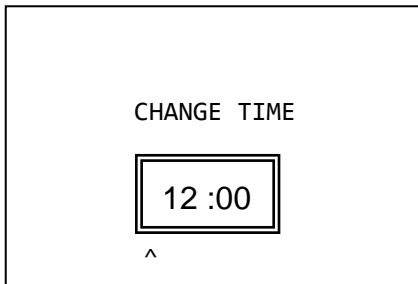
The user has to enter a timer number. The following screen appears.



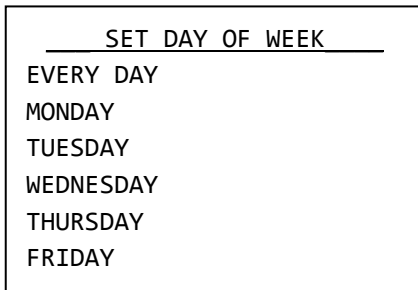
If the «CHANGE TIMER» is selected it means that the timer is active. If the «DELETE TIMER» is highlighted then this means that the timer is inactive. The inactive timer always has a default time of 12:00

The selection «CHANGE TIMER» is also used to create a procedure.

By selecting «CHANGE TIMER» we see:

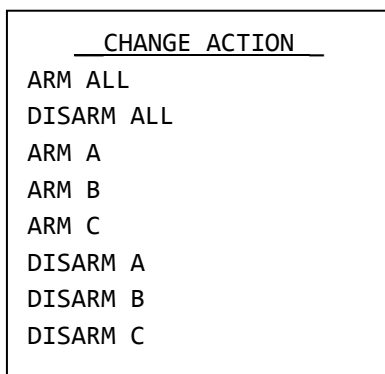


The user selects the time that the specific timer will be activated.



The user selects the day of the week that the timer will be activated. If «EVERY DAY» is selected, the timer will be activated every day.

After pressing " \*↵ " we see the following screen :



We choose the function that the timer will perform and press the key " \*↵ ". The system confirms the selection.

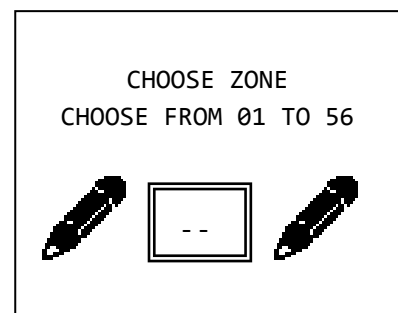
The event memory logs the arming or disarming of the system but also shows that the event has been launched by a timer.

In case a user chooses «DELETE TIMER», the specific timer will be deleted.

## Zone Programming

The next option in the "TECHNICIAN MENU" is «ZONES». Through that menu option the technician can adjust the parameters of the zones. **These functions apply for both wired and wireless zones.** By selecting it, we can enter the desired zone number (01 - 56). After inserting the zone's number, the name of the zone appears. If the zone is a wireless zone, the device's ID and type also appear for 2 seconds.

After that time, the "ZONE MODE" menu appears. In every menu item, the cursor highlights the current setting.



«DISABLE OFF». The zone does not function and cannot trigger and alarm or fault signal. All zones not existing physically on the system (i.e zones 09-16 if there in no expansion card, or wireless zones) by default are in this state. Usually we set this state to all zones that are not used.

«ZONE WITH DELAY». The zone will trigger an alarm event after an entrance delay. This selection is used for the magnetic contacts that are used for the main entrance and also for the radar the will detect the user before he reaches the panel to disarm it. For wireless PIR sensor and magnetic sensor, the selection is forced from the device Dip-switch and it is validated only in the technician menu. If the user selects anything else except for “zone with delay” or “zone with no delay”, then the panel setting is forced and the Dip-switch has no effect. Changing the Dip-switch of the device outside technician menu has no effect. The user must enter technician menu, change the Dip-switch and press the tamper of the device, in order to validate the delay option.

«ZONE WITHOUT DELAY». The zone will trigger an immediate alarm. This selection is used for radar detectors and magnetic contacts that are used in other areas. For the delay settings read the procedure above in the paragraph «ZONE WITH DELAY».

«PANIC». This zone will trigger an immediate alarm event, even though the panel is disarmed. It will also produce a panic alarm message if a telephone dialer is installed. It can be used on zones that have a panic button.

«FIRE». This zone will trigger an immediate alarm event even if the panel is disarmed. It will also produce a fire alarm message if a telephone dialer is installed. It can be used on zones that have smoke and heat detectors.

«SILENT». The zone will trigger an immediate silent alarm event. It will activate the telephone dialler if installed and not the sirens. It can be used in zones that have a panic button and the human that operates it is being threatened by not using it.

«ZONE NEXT DELAY». When this option is activated, the system will arm after (EXIT TIME+EXTRA EXIT TIME) time.

«SET SECTION». When this zone is activated it will arm the whole system or a section of it. It can be used to arm the panel through some other system such as a BMS or fire alarm system. The zone must be connected with a normally closed contact of the relay of the other system. If this setting is made by a keyboard, “YES” should be selected in zone bypass and forced arming selection.

«UNSET SECTION». When this zone is activated it will disarm the whole system or a section of it. It can be used to disarm the panel when some other system such as a BMS or fire alarm system is also disarmed. The zone must be connected with a normally closed contact of the relay of the other system. If this setting is made by a keyboard, “YES” should be selected in zone bypass and forced arming selection.

«SET UNSET SECTION». When this zone is activated it will change the state of the panel or a section of it from armed to disarmed and vice versa. It can be used to arm the panel through some other system such as a BMS or fire alarm system. The zone must be connected with a normally closed contact of the relay of the other system. If this setting is made by a keyboard, “YES” should be selected in zone bypass and forced arming selection.

«PG CONTROL». As far this particular zone is enabled, the selected output will also be activated. In this option the technician must choose between P1, P2, P3 or RELAY.

«TAMPER». This zone will trigger an immediate alarm event, even if the panel is disarmed. It can be used as a zone for connecting the TAMPER outputs of the external siren or the other devices.

«RADAR 2 PULSES». This is a special zone type is used for avoid false alarms. Only radars (PIR sensors) must be connected to this zone. When the panel is armed it operates with the following way:

If the panel receives the first alarm signal from the specific zone, it waits for 5 minutes. If during this interval, the panel receives a second signal, an immediate alarm is triggered. If during the 5 minute interval a second signal is not received by the panel, then the first signal is considered to be a false alarm and is discarded.

After selecting the zone mode we must select the **section** (A, B, C). If we want to operate the panel as a whole system then this selection is important.

The next setting is "**ZONE BELL**". In case we select "YES", when the panel is armed and the zone is activated, the keyboard buzzer will sound. This function can be used for example to warn us that the door of a store has opened by connecting its magnetic trap to this zone.

Next selection is «**BYPASS**». Within that option we can select if a zone can be bypassed either manually or automatically. By default this setting is set to "YES" for all zones. Select NO only for critical zones, (i.e. zone with magnetic contact used for protecting a safe) so that the system cannot be armed when the specific zone is active.

The «**FORCED ARM**» setting has 2 different operation modes.

- a) YES: If the zone during the arm process is active (i.e. open window), the system will be armed without taking into account this zone. If the zone becomes deactivated (the windows closes) the specific zone will be inserted into the armed system as an armed zone.
- b) NO: If the zone during the arm process is active (i.e. open window) and bypass has not been selected, the panel will warn us that the arming is not possible.

For the last three settings the panel will automatically select the correct setting. If no special settings are required, then it is good practice not to alter them.

### Wired zones status

«TECHNICIAN MENU» → «WIRED ZONE CONDITION»:

<u>WIRED ZONE CONDITION</u>
ALL ZONES OK

The technician can check the status of the wired zones (1 - 16) and the devices connected on them. For example, if a magnetic contact of a window is connected on zone 4 and someone opens it, the "ALL ZONES OK" will disappear and number "04" will start blink. When the window is being closed, the screen will return to its previous state. The same procedure is used for PIR sensors (radars) too.

### Outputs programming

«TECHNICIAN MENU» → «OUTPUTS»:

<u>OUTPUT SELECTION</u>
P1
P2
P3
RELAY

Through this setting we can program the way each of the outputs P1, P2, P3 and RELAY will operate. When an output is activated we mean that it has 12V or the relay has been activated. When an output has been deactivated it has 0V and the relay is in the idle state. Press " \*← ", choose the output, then press " \*← " again. The following choices appear:

«DISABLE OFF». The output does not operate.

«LIKE SIREN». Activates the external siren (via the START terminal) with positive logic. It has 0V in the idle state and 12V in alarm. By default this is how the P1 output is programmed.

«ON ALARM». It is activated when an alarm event is triggered from a zone which has been programmed like:

- ZONE WITH DELAY
- ZONE WITHOUT DELAY
- ZONE NEXT DELAY

- TAMPER
- RADAR 2 PULSES

«ON FIRE». It is activated when we have an alarm event from a FIRE zone.

«ON PANIC». It is activated when we have an alarm event from a PANIC zone.

«ON FAULT». It is activated when a fault has happened.

«ON ARM». It is activated when the panel is armed.

«FLASH». It produces 3 short pulses during the arming of the panel and one long pulse during the disarming. It can be connected to the FLASH or FL of the external siren. It is useful, if the system is controlled by remote control. By default the output P3 is programmed with this function.

«ON OFF MANUAL». It is activated manually by the keyboard of by a zone that has been programmed as PG CONTROL. By default the output RELAY is programmed like this.

«AC STATUS». It is activated in the event of an AC power supply failure.

«SUPPLY FIRE DETECTOR». It is suitable for powering smoke and heat detectors. It has a permanent voltage of 12V which is disrupted for 5 seconds after every disarming. By default this is how the output P2 is programmed.

«ON SILENT ALARM». It is activated when an alarm has been triggered by a "SILENT" zone.



Output "P4" is a voltage output and it is not used at present time.

### System general parameters programming

«TECHNICIAN MENU» → «SYSTEM»:

SYSTEM
DEVICE ADDRESS
SCAN KEYBOARDS
SCAN EXTENSIONS
RESET DEFAULTS
LOAD PANEL SETTING
ANNUAL CHECK DONE

«DEVICE ADDRESS».

By default each keyboard BS-466/A is assigned by address 2. If we only have one keyboard there is no reason to change the address. If we have more than one keyboard, each keyboard must have its own address in order to be acknowledged by the panel. We can change it by that option. **This option is NOT available on the BS-477 Wireless Keyboard.**

«SCAN KEYBOARDS».

Use this option to have the panel scan for all connected keyboards.

«SCAN EXTENSIONS». Automatically detects expansion cards. It must be executed whenever one of the zone cards, a GSM answering machine or a PSTN answering machine is connected to the panel.

NOTE: If the command is given by a wireless keyboard, it will lose its communication with the panel for the next 40 seconds.

In this case, two events can take place : A) If the user remains in the technician's menu, then the keyboard LEDs will stop updating for 40 seconds. B) If the user comes out of the technician's menu and then turns off the monitor, if the keyboard is turned on and the display lights up before 40 seconds, a panel communication error message will appear. This error will be disappeared from the screen after 40 seconds.

«RESET DEFAULTS». Resets all settings to factory defaults (see page 13).

«LOAD PANEL SETTINGS». The memory of the panel contains 6 groups of preset settings that can be used for simple and usual installations. With this selection we can automatically adjust the system to use one of these presets. For a complete description of these preset groups see page 13.

«ANNUAL CHECK DONE». It erases the annual inspection counter. The annual inspection warning will be shown again after 365 days from the time the command is executed.

#### BS-465 PSTN telephone dialer programming

```
NO PSTN CONNECTED

PRESS '#' TO RETURN
```

Entrance in PSTN menu is allowed only if the system has registered a PSTN telephone dialer («SYSTEM» → «SCAN EXTENSIONS»).

If entrance is not allowed, the screen to the left appears.

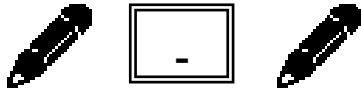
```
-----
PSTN
-----
CALLING NUMBERS
INCOM. CALL REACTION
TELEPHONE LINE CHECK
ALARM RECEIV. CENTRE
```

In case entrance is allowed, the screen to the left appears.

«PSTN» → «CALLING NUMBERS». This option permits the technician to store a telephone number in the panels memory and give it the desired properties.

```
PHONE SERIAL NUMBER.

SELECT FROM 1 TO 6


```

We can store up to 6 telephone numbers that can be either a mobile or land line numbers, local or international. Using this menu we select the number of the telephone that we want to alter. Select from 1 to 6.

After selecting the number of the phone that we want to alter the following screen is shown:

We can select which events will trigger the number to be called. The options available shown on the display to the right. More programmed through the computer software nifies the panel BS-468/A.

```
-----
CALL ON
-----
ALARM AND FAULT
ALARM ONLY
FAULT ONLY
PANIC AND FIRE ONLY
TAMPER ONLY
MAINS ABSEND ONLY
```

current telephone are more than these tions can be pro- PC-468 that accompa-

Due to the fact that in this menu not all op- cursor does not highlight the current option most.

tions are shown, the but always the top

```
LINE NUMBER ENTRY
00306977123456-----
A: CONFIRM
B: CANCEL
C: CLEAR ALL
```

After making the required selection it is time to enter the actual telephone number.

Due to the fact that the "\*" and "#" signs can be part of the number, the storage is done using the 'A' key and the cancellation is done using 'B' key. With key 'C' we can clear the currently displayed

number (it is filled with dashes) and the cursor is moved to the first digit.  
In order keys 'A', 'B' and 'C' to be accepted, they must be pressed for at least 1 second.

«PSTN» → «INCOM. CALL REACTION».

<u>INCOM. CALL REACTION</u>
DO NOT ANSWER
AFTER 5 SEC
AFTER 10 SEC
AFTER 15 SEC
AFTER 20 SEC
AFTER 25 SEC
AFTER 30 SEC
AFTER 40 SEC
AFTER SECOND CALL

This setting permits us to adjust how the PSTN dialer acts during an incoming call. The options available are «DO NOT ANSWER» or «AFTER 15 SEC.» as well as after 10,15,20,25,30,or 40 seconds. There is also an option to respond after a second call has been received. It is obvious that if the first option is selected then the PSTN dialler cannot accept remote commands for telephone calls. Also, regarding the other selections, the call will be answered.

«PSTN» → «TELEPHONE LINE CHECK»

This option tests if there is proper line signal. If not, a "LINE NOT FOUND" fault is produced.

«PSTN» → «ALARM RECEIV. CENTRE»

- ARC Status. We can select if the ARC(Alarm Receive Center) is activated or deactivated.
- ARC PHONE NUMBER. We can enter the telephone number of the ARC.
- PANEL ID (0-9 & B-F) we can enter the ID of the alarm panel, using the numbers 0 to 9 and the letters from B to F.

<u>ALARM RECEIV. CENTER</u>
ARC STATUS
ARC PHONE NUMBER
PANEL ID (0-9 & B-F)
EVENTS NOTIFICATION
COMMUNICATION CHECK
COMM. TEST (WAIT)

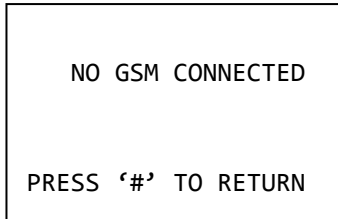
ATTENTION!! When the BS-477 wireless keypad is used, if the user does not type a digit within 10 seconds, the keypad returns to the menu.

- EVENTS NOTIFICATION. We can select which events the ARC will be informed by
- COMMUNICATION TEST. We can adjust the panel not to perform a communication test with the ARC or to perform a test every 4, 8 or 24 hours.
- COMM. TEST (WAIT). We can manually establish a communication between the panel and the ARC and see the results in a few seconds.

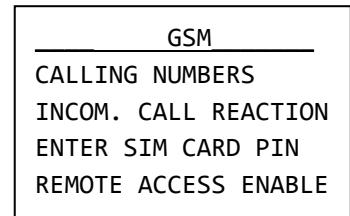
For detailed information regarding the PSTN card BS-465, please refer to the user manual of BS-465.

## BS-464 GSM telephone dialer programming

Entrance in GSM menu is allowed only if the system has registered a GSM telephone dialer («SYSTEM» → «SCAN EXTENSIONS»).

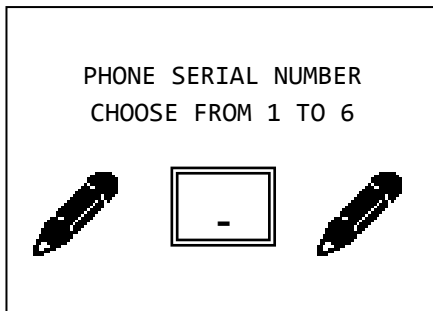


If entrance is not allowed, the screen to the left appears.

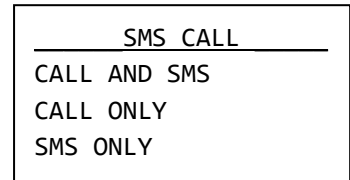


In case entrance is allowed, the screen to the right appears.

«GSM» → «CALLING NUMBERS». This option permits us to store a telephone number into the panel's memory and give that number the properties as required.



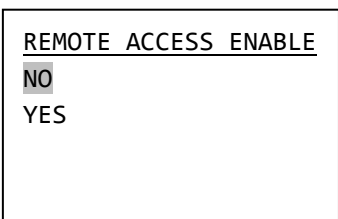
We can store up to 6 telephone numbers that can be mobile or land line numbers, local or international. Using this menu we can select the number of the telephone that we want to alter. Select from 1 to 6.



After selecting the number of the phone that we want to alter, the following screen is shown:

At this point we can select if during the selected events the GSM will call and send an SMS to the telephone number, will only call, or will only send an SMS. It is advised to use SMS notification and not phone calling, since charging can be verified easily (a phone call can be transferred to an automatic telephone dialler instead of the phone).

After selecting one of the above options the following screen is shown:



This selection is valid only if we have enabled remote access in the initial GSM menu. Through Remote access we decide if the current number can send remote commands to the panel or not.

After choosing remote access, the following screen appears:

CALL ON
ALL EVENTS
ALARM ONLY
FAULT ONLY
PANIC AND FIRE ONLY
ON ARMED-DISARMED
MAINS ABSEND ONLY
ALARM AND FAULT

We select which events trigger the panel to call or send SMS to the current telephone number. The options available are more than these shown on the left. More option can be viewed or programmed only with computer software PC-468 that accompanies the panel BS-468/A.

Due to the fact that in this menu not all options are shown, the cursor does not highlight the current option but always the top most.

After choosing the required phone number. Due to the part of the number, the cancelation is done by using the currently displayed the cursor is moved to the

LINE NUMBER ENTRY
00306977123456-----
A: CONFIRM
B: CANCEL
C: CLEAR ALL

selections it is time to enter the telefact that the "\*" and "#" signs can be storage is achieved using the 'A'. key 'B'. With key 'C' we can clear number (it is filled with dashes) and first digit.

In order keys 'A', 'B' and 'C' to be accepted, they must be pressed for at least 1 second

Also note that local numbers are entered without the country code (i.e. 6977123456), whereas international numbers are entered with the country code (i.e. 00306977123456).

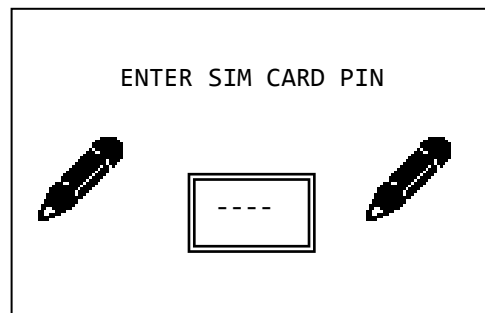
«GSM» → «INCOM. CALL REACTION». This setting permits us to adjust how the GSM dialer acts during an incoming call. The options available are «DO NOT ANSWER» and « AFTER 15 SEC». If the first option is selected, the GSM dialer cannot accept remote commands for telephone calls, even if the calling telephone number has been programmed to send remote commands. As of the second option, 15 seconds is not an strict value. 1 second differences can be observed depending each mobile provider.

«GSM» → «ENTER SIM CARD PIN».

Two options «ENTER PIN» and «CARD HAS NO PIN» are available. We use the second option in case the installed card does not have a PIN number.

If the installed card has a PIN number (first option), then this PIN number must be entered in this menu or else the GSM functionality won't be available.

It is advised to use SIM cards with no PIN number. To remove the PIN number for the SIM card, remove the card from the GSM unit (be sure that the GSM dialer is not powered) and place it in a mobile phone. Use the phone's menus to remove the PIN number. Remove the card from the phone and replace it in the socket of the GSM card. Reinstall the GSM card on the panel BS-468/A. Please note that the PIN code is requested twice. For the code to be considered correct we must enter it correctly both times.



«GSM» → «REMOTE ACCESS ENBLE».

Through that menu the technician can select weather GSM will be able to accept remote commands.

REMOTE ACCESS ENBLE
DEACTIVATED
ACTIVATED
ACTIV BY ALL NUMB.

If «DEACTIVATED» is selected, then the panel will not accept commands from any telephone number.

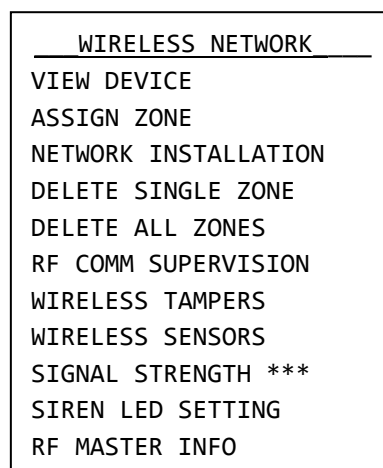
If «ACTIVATED» is selected, the stored telephone number can send commands to the panel only if the option "Remote access" is activated for this telephone number.

If «ACTIV BY ALL NUMB.» is selected then any telephone number can send commands to the panel.

For detailed information regarding the GSM card BS-464 (i.e. remote access, SMS command syntax) refer to the user manual of the BS-464.

### Wireless Network

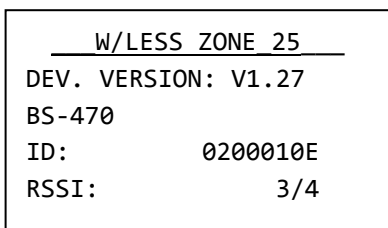
BS-468/A can support up to 32 wireless devices. This feature is acquired by the presence of BS-479 wireless zones expansion card. The wireless zones numbering starts at 25 and ends at 56. By the time BS-479 is scanned successfully («SYSTEM» → «SCAN EXTENSIONS» menu), the user can enter «WIRELESS NETWORK» menu. The choices of that particular menu are shown on the right screen.



#### «VIEW DEVICE»

Information about the connected wireless devices are shown here. These information are the following:

a) "W/LESS ZONE": The zone number in which the specific device is assigned (e.g.: 25).



b) "DEV. VERSION": The designated device's program version (e.g.: V1.27).

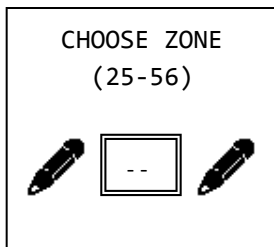
c) "BS-470": The device's name that is found in the corresponding zone (wireless PIR sensor → BS-470, wireless magnetic sensor → BS-471, wireless siren → BS-475, wireless keyboard → BS-477)

d) "ID": This is the unique address each device has.

e) "RSSI: X/4 ": The devices signal strength appears on a scale from 1 to 4.

#### «ASSIGN ZONE»

Normally, on Network Installation, every device that is recognized, is assigned automatically to the first free wireless zone number. Through "ASSIGN ZONE" function it is possible to assign a wireless device to a specific zone of our choice. ATTENTION! If a device already exists in the specific zone, it will be deleted.



First of all we set the number of the zone we want the device to be assigned to. The number's range is 25 to 56.

Subsequently, an information screen appears. It explains what keys can be used for device address. Every device has its own address ID, which can be found in the devices sticker. That sticker can be found inside the device. Examples of valid IDs are: 0A00010D, 02001FF9, 07000012, 03000001,

023FDD23.

Digits A - C can be inserted through the wired keyboard by holding them down for 1-2 seconds. Letter D can be inserted by pressing "ABC". Letter E is inserted by pressing keys "A" + "B" for 1 second and letter F by pressing and holding "B" + "C". Press " \*↵ " in order to exit the screen.

ATTENTION!. The above screen changes if the user uses a wireless keyboard (BS-477). The difference is that letter E is inserted by pressing " \* " and letter F by pressing " # ". If the user does not type a digit within 10 seconds, the keypad returns to the "WIRELESS NETWORK" menu.

If there is another device in place of the zone we select, the panel will display the failed assignment message. In this case, the existing zone must be deleted and then re-assigned.

#### «NETWORK INSTALLATION»

In order to have a fully operational wireless alarm network, all the devices must be assigned into wireless zones. This is done through "Network Installation", a procedure that is covered in detail on the next page of this manual.

#### «DELETE SINGLE ZONE»

We can delete a single wireless zone. Acceptable zone numbers are 25 - 56. Once this action is completed, it is suggested that you press the device tamper so that the deletion can be validated instantly.

#### «DELETE ALL ZONES»

Through that choice, the user can delete all wireless zones of the system.

#### «RF COMM SUPERVISION»

Enables or disables wireless communication supervision. When the option is turned on, the panel monitors the time at which the devices send a signal to it. If a device does not send a signal for 2 hours, then a fault message appears on the screen. The factory default setting is set to ON.

#### «WIRELESS TAMPERS»

This feature allows us to monitor in real time whether the switch of any wireless device installed on the network is pressed or not. The numbers which displayed, are the wireless zones whose tamper is active (not pressed). When wireless keypad is used, its screen is refreshed every 8 sec.. Thus there might be an 8-second delay (maximum) from the switching state of the device until this event on keypad's screen to be displayed.

#### «WIRELESS SENSORS»

This feature allows us to monitor in real time whether the sensor of a wireless device that is installed on the network is turned on or off. The numbers displayed are the wireless zones that give a sensor activation signal. When wireless keypad is used, its screen is refreshed every 8 sec.. Thus there might be an 8-second delay (maximum) from the switching state of the device until this event on keypad's screen to be displayed.

#### «SIGNAL STRENGTH»

This option is only available on the **BS-477** wireless keyboard and allows us to monitor the strength of the wireless signal according to the keyboard position. The display shows the signal power in 1 - 4 range and as RSSI (value in brackets). The bottom dashes are there to show us the communication existence between the keyboard and the table. If they are blinking it means the device is on range and receiving the panel's commands.

#### «SIREN LED SETTING»

Available options in this mode are YES and NO. If you select "YES", the siren beacon will flash 3 times when the system is armed. Also, when disarming the system, it will light up one time. If you select "NO", the siren beacon will not light up during both the arming and disarming of the system.

#### «RF MASTER INFO»

Displays the version of the wireless expansion card of the panel (BS-479) and its unique address.

## Factory Menu

The specific menu is not accessible by any user (including technician). It is intended for supporting issues.

### 3.4. *Wireless Zones Functions*

#### Wireless Zones Extension Board Installation

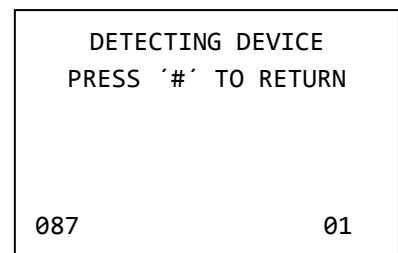
The steps of BS-479 (wireless zones extension board for panel BS-468/A) installation are described below.

1. Disconnect the power mains and battery. Place the 4 spacers intended for BS-479 support on the panel board. Put the BS-479 board on the defined position. Screw the 4 screws and connect the battery. Connect the power supply of the panel.
2. On the BS-466/A initial screen a "EXTENSION 05 NOT REGISTERED" fault appears.
3. Press " \*↵ " and choose "MASTER OR TECH MENU". By entering the "technician code" the user has now "TECHNICIAN" privileges.
4. Press " ▼8 " until you are in line "SYSTEM". Press " \*↵ ".
5. By pressing " ▼8 " the user must choose "SCAN EXTENSIONS". Press " \*↵ " and wait until the scanning process ends. When the scan procedure ends, the keyboard screen must have a "✓" symbol in the corresponding extension card that has been detected. The BS-479 wireless zones extension has the name "RF MASTER". The BS-477 keypad will not display the installed extension when the process is complete.

#### Wireless devices installation

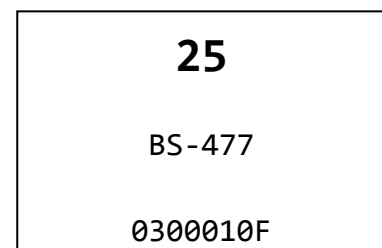
Below there are all the necessary steps required to install - add wireless devices to the BS-468/A burglar system. The specific procedure takes place by choosing "NETWORK INSTALLATION" and can be started only if a user has "TECHNICIAN" privileges.

1. From the welcome screen, press " \*↵ " and then select "MASTER OR TECH MENU". By typing the "TECHNICIAN" code we enter the technician menu.
2. By going down with the " ▼8 " button, on the second page of the technical menu we select the "WIRELESS NETWORK" menu. Select "NETWORK INSTALLATION" and " \*↵ " starts installing wireless devices (see picture on the right). At the bottom left there is a counter counting the seconds. After 999 seconds, if no device is added, the installation process stops automatically. After the insertion of a new device it starts counting from the beginning. The bottom right corner gives the number of devices already installed on the network.



**CAUTION! When installing more than one wireless devices, the installer must wait for 10 seconds before inserting another one. If this time is not met, there may be problems with the installation.**

3. To add a device into the system, we need to place the battery on this particular device, press the tamper spring for 1 to 2 seconds and then leave it. If successful, the message on the right screen will appear. In the top line there is only one number (25) which is the number of the zone that the device has been assigned to. The middle line shows the device type (BS-



477, BS-470, BS-471, BS-475). The bottom line contains the unique address of the added device (in our case 0300010F).

4. After a few seconds the installation screen reappears and we can add other devices if needed in the same way. After inserting a device, a 10-second interval occurs during which no other device can be identified.
5. If 32 devices have already been installed and try to add another, 4 long beeps will be heard. No other devices can be installed.
6. By pressing the " #<sub>ESC</sub> " button, the installation procedure stops and we get back to "Wireless Network" menu.

**NOTE:** For every change we make in the wireless zone menu and during the detection of extensions, it takes time to update the wireless system data. During this process, when we try to enter a menu, a message is displayed. When the process is complete, we can again use the menus.

### **Installing wireless network devices with your PC and the BS-477 Wireless Keyboard**

In this case, the network installation should be done by PC-468 software. For this reason, there is a USB connector on the BS-468/A too. The user should follow the following steps.

1. Plug the USB cable on the BS-468/A panel.
2. Open the PC-468 software and press "Scan keypads".
3. Press "Scan extensions".
4. Start "Network Setup" from the wireless tab.

As far as processes 3 and 4 are in progress, the BS-477 should not have its batteries. When the batteries are loaded, the panel will recognize it and install it into its network as well as any other wireless devices assigned to the panel. The corresponding indicator on the PC program will also be updated. When all of the above steps have been completed, the rest of the wireless network settings can be executed normally by the BS-477.

### **Wireless network installation without keyboard and PC**

The procedure is simple and is realized via BT1 button of the BS-479 expansion card. The process is divided into 2 parts, the first one concerns the device detection and the second concerns the installation of a wireless keypad. When the BS-477 wireless keypad is installed, the installation of other devices can be completed by this keyboard's menu. To process the procedure focus on BT1 button as well as LED LD4 (green) of the BS-479 card. The total process of inserting a wireless keypad into the network lasts approximately 2 minutes. It is noted that if another device is currently in technician menu, the below procedure cannot take place.

### **INSTALLATION PROCEDURE STEPS**

First, BS-468/A should detect the BS-479 extension. It will also search in general for all connected devices, extensions and wired keyboards. The batteries, of the wireless keypad that will be inserted into zone 25, should not be installed and the tamper switch must not be pressed. The procedure is the following:

1. Power on the panel and wait for 30 seconds to initialize. At this stage, LD4 (green) is off.
2. Press the BT1 button for about 3 seconds until the LD4 lights up. Then release the button.
3. Wait about 60 seconds until LD4 goes out, indicating that devices detection has been completed.
4. Install the batteries to the keypad device. The panel will detect it and insert the device to the network. At the same time LD4 will turn off.
5. Wait 15 seconds for the LCD and the LEDs of the wireless keypad. The procedure is now complete and the rest of devices will be installed by this keypad's technician menu.
6. End of procedure.

## NOTES

1. During the above procedure, do not attempt to add another device into the network (i.e. siren, magnetic contact, etc.) other than the keypad. If you attempt to add another device during the wireless keypad detection process, the panel will ignore it.
2. The keypad detection process has a 1-minute timeout period, once the LD4 starts blinking. If no keypad is inserted within 1 minute, LD4 will go out. To start the procedure again, the BT1 button must be pressed once again.
3. When the keypad is successfully entered, the zone 25 to which it is entered will be deactivated (OFF). To switch it on, go to the technician's zone menu. This happens because the tamper is not pressed, so the panel will send an alarm command. As a result, if a wired siren is connected to it, it will start to sound.
4. If only a wireless keyboard is installed initially, then if a wired keyboard is connected later, the second one will not communicate with the panel, therefore a keypad detection must be done to start the panel communicating with the keyboard line.
5. The keyboard installation from the BS-479 extension as soon as it detects the keyboard will erase all wireless zones and will insert the new keyboard into zone 25.

## **Wireless devices deletion**

### **A) Deleting ALL wireless zones**

From the main screen of the keyboard press " \*↵ " and then select "MASTER OR TECH MENU ". By typing the TECHNICIAN code we enter the technician menu. By pressing the "▼8" button, on the second page of the menu we select the menu "WIRELESS NETWORK". We go down with the "▼8" button and select "DELETE ALL ZONES". After a few seconds, we return in the wireless menu. Wireless devices will leave the network after a maximum of 2.5 minutes.

**NOTE:** If a wireless keyboard sends a command to delete its own zone, then after confirming the action, exit the technician's menu and let it go out. Once it re-activated, in the screen will be displayed a communication error message with the panel indicating that its zone is now erased.

### **B) Deleting individual zones**

From the main screen of the keyboard press " \*↵ " and then select "MASTER OR TECH MENU ". By typing the TECHNICIAN code we enter the technician menu. By pressing the "▼8" button, on the second page of the menu we select the menu "WIRELESS NETWORK". We go down with the "▼8" button and select "DELETE SINGLE ZONE". We type the zone number that we want to delete and after a few seconds we see the corresponding deletion success message on the keyboard screen. The device that was found in this zone exits the network after a maximum of 2.5 minutes.

**NOTE:** If a wireless keyboard sends a command to delete its own zone, then after confirming the action, exit the technician's menu and let it go out. Once it re-activated, in the screen will be displayed a communication error message with the panel indicating that its zone is now erased.

### **C) Deleting devices manually**

The following method of deleting a wireless device is recommended only if the wireless zone extension card (BS-479) needs to be changed.

The device must not have its battery. By pressing the tamper spring and holding it down, place the battery. After about 3 seconds, the device red LED lights up and remains on for 10 seconds. Once it turns off, remove the battery and leave the tamper spring.

The battery can be reinserted after 5 seconds.

- Wireless keypads have the ability to delete the zone in which they belong to by sending a command to the panel. Once such a command is given, there are two possible cases: Either it will restart immediately or it will wait for about 10 seconds and then restart. In each case, after reboot, a communication error message will appear, indicating that the keypad has been deleted from the network.

### General information concerning wireless devices installation procedure

1. On a device that is already installed on the network, we can perform range test. The procedure is described below.
  - a) Remove the battery from the device if installed.
  - b) Press tamper spring and keep it pressed.
  - c) Place the battery and wait for the device's LED to turn on.
  - d) When the LED turns on, wait for about 1-2 seconds and release the tamper spring. The LED starts blinking.
  - e) After about 1-2 minutes, the LED stops blinking and flashes steadily 1 to 4 times for 1 second. These flashes indicate signal quality.
    - 1 flash : Powerful signal. Safe place for wireless device.
    - 2 flashes : Normal signal. Secure position for the wireless device.
    - 3 flashes : Weak signal. The wireless device will work, but there is a case of loss of communication packets (creation of a time delay). It is not recommended to place the wireless device in this position.
    - 4 flashes : Out of range. The device will not operate in this position.
  - f) After conducting the range test, we can see the wireless link data in the menu "TECHNICIAN MENU → WIRELESS NETWORK → VIEW DEVICE". With " ▲2 ", " ▼8 " we move between the zones. The better the reception quality, the higher the RSSI (4/4 perfect reception).
2. As far as we are not performing the "Network Installation" procedure, no device can join the panel's network. Devices that are already connected to another panel cannot be installed on the panel we are performing "Network Installation". For example, it is impossible to connect devices, on the panel from the house next door that are already installed on another BS-468/A panel. Also, only Olympia Electronics devices can be connected to BS-468/A and vice versa, i.e. Olympia Electronics wireless devices cannot be connected to third-party anti-theft alarm panels.
3. When a device enters the network, it automatically occupies the first available free zone. Thus, in a network without devices, if we install 5 devices, they will be installed in zones 25, 26, 27, 28 and 29. If we try to add another device, it will be installed into the first free zone, that is 30. After that we delete a device located in zone 27. If we install another device, it will automatically enter zone 27, and if we enter another one it will enter zone 31, which is the first free one. If we delete all zones, the first free zone will again be 25. The only way to place the devices in a zone of our choice is to select "ASSIGN ZONE" from the "WIRELESS NETWORK" menu.
4. To replace the battery from a wireless device, enter the "TECHNICIAN MENU", change the battery, and then go back to home screen.

### Wireless Zones Events

- Wireless zones can produce some extra events than wired zones. The common event with wired devices is the tamper event, which when open, it will trigger an alarm, unless we are inside "TECHNICIAN MENU". Also, if there is motion detection on a motion sensor, it will trigger an alarm event only if the system is armed. While the system is disarmed, an information on the "WIRELESS SENSORS" menu screen is depicted.
- The same happens when the battery voltage of a wireless device, drops under a critical value.
- If a wireless device or an extension card does not communicate with the panel for a long time in a disarmed system, it is recorded as an error in the events log. If the same error occurs in an armed system, an alarm will be triggered.
- If the battery level on a wireless device is low for 12 hours, a low battery fault is generated. After battery replacement, the fault will be reset in maximum 6 minutes time.

- If the value of the RSSI (signal strength) of a wireless device is low for half an hour, then a low signal fault occurs.
- If a user gets out of technician menu and there is tamper alarm active in a wireless device, the siren will not sound for the specific zone. However the "Tamper Alarm" event will exist on the keypad screen.

### Wireless devices types

- WIRELESS ZONES EXTENSION CARD - BS-479

The wireless zones extension card is responsible for connecting the wireless devices with the panel. It has 4 LED indicators. LD3 indicates the power supply of the device. The wireless zone extension should not be removed or installed while the panel is connected to the power supply or the battery. There is a risk of serious damage.

- WIRELESS MOTION DETECTOR - BS-470

Wireless Motion Detection features 2 DIP switches (DS1) and a Tamper Switch.

- **DIP Switch 1** → **OFF** position: The device triggers alarm event as soon as the sensor gets activated.
- **DIP Switch 1** → **ON** position: An alarm event is given after a time delay has elapsed since sensor activation. That delay is set through "ZONES" menu.
- **DIP Switch 2** → **OFF** position: The device is in normal sensitivity mode.
- **DIP Switch 2** → **ON** position: The device is in high sensitivity mode and the detection area is now bigger.

The wireless motion detector has also a terminal for connecting an external magnetic contact, which when not in use must be short-circuited.

- WIRELESS MAGNETIC CONTACT - BS-471

Wireless Magnetic Contact features 2 DIP switches (DS1) and a Tamper Switch.

- **DIP Switch 1** → **OFF** position: Internal magnetic contact is on.
- **DIP Switch 1** → **ON** position: Internal magnetic contact is off. External magnetic contact is on.
- **DIP Switch 2** → **OFF** position: The device triggers alarm event as soon as the sensor gets activated.
- **DIP Switch 2** → **ON** position: An alarm event is given after a time delay has elapsed since sensor activation. That delay is set through "ZONES" menu.

The position where the magnet should be placed for the internal magnetic contact to function properly is signaled with 2 protrusions on each side of the plastic box. The magnet may be placed on one or the other side.

At KL1 we can connect external magnetic contact which, when not in use, must be short-circuited and the DIP Switch 1 is in the OFF position.

- WIRELESS SIREN - BS-475

The wireless siren features 4 DIP Switches (DS1), in order to adjust the alarm sound. Its default position is anti-theft alarm sound. It also has 2 tamper contacts in case someone tries to open its lid or someone tries to detach it from the wall. CN4 jumper junction is responsible for flashing the siren's LED.

The photovoltaic cell is connected to the KL1 terminal.

The siren is also equipped with a foam sensor input and a Tilt Switch input.

The wireless siren sounds when an alarm occurs.

- WIRELESS KEYPAD - BS-477

An alarm system is not recommended to have more than 2 wireless keyboards installed. No more than one keypad should be used when changes are made to the system.

It is forbidden to send settings or to type codes from 2 keypads at the same time.

The arming keys are activated after pressing them for 2 seconds.

The panic key on the wireless keyboard is "# ESC" and is activated by pressing it for 5 seconds. This specific key can be pressed even if the keys are locked. In such a case the panic key unlocks the whole keypad.

### **BS-477 MENU**

It is the same as of BS-466/A menu, but with some minor differences. Most importantly, when entering a menu, the current active setting is not illuminated, as in BS-466/A. Instead of that, the first setting is always selected.

"ARMED SYS INDICATORS" and "IDLE BACKLIGHT MODE" menu options do not affect BS-477 and are intended for use with BS-466/A only.

Inside "WIRELESS NETWORK" menu an extra line "SIGNAL STRENGTH" exists in BS-477.

### **SIGNAL STRENGTH MENU**

"TECHNICIAN MENU" → "WIRELESS NETWORK" → "SIGNAL STRENGTH".

The user sees the current signal strength value on the screen. This value is updated every few seconds. When refreshed, the display shows "- - -" a while. Values above 30 means good signal, 20 to 30 average signal, and below 20 means "low signal". Below this value, communication may exist, but there will be an increased number of lost packets. It is not recommended to install a keypad to a position that the indication is less than 20. For a safe conclusion about the signal at one point, the keypad should take measurements at this point for 10-15 seconds in order to renew display 5-6 times. Thus the user will be able to draw a conclusion about the mean value of signal strength at this point.

## **3.5. *Resetting to factory default passwords***

The main board of the panel contains 2 pins with the marking CODE RESET. Through these pins we can reset the passwords to the factory defaults by following the procedure below:

1. Connect the cable SERVICE of the siren to a (-) on the panel.
2. Isolate the mains power supply and disconnect the battery.
3. Link the pins CODE RESET by placing the jumper at both pins.
4. Connect the mains power supply and the battery.
5. Remove the jumper when the display of the keyboard lights.

After this procedure the main master code is 1234 and the technician code is 9999 and all the user codes are empty.

## **3.6. *Programming via computer***

The programming of the panel can be done easily by using the special computer software PC-468 that is provided free by Olympia Electronics. A simple USB to mini-USB cable (BS-466/A keyboard) or a USB to Type-B cable (connection to the panel's board) and a CD with the latest version of the program is required. It is not recommended to connect the panel or keypad to the computer via a USB hub.

**WARNING! The latest version of the software PC-468 is available in the following web address:**  
<http://www.olympia-electronics.gr>

The panel or the keypad must not be connected to the computer during the software installation. The PC-468 installation is done automatically by inserting the CD in the drive or by running the file BS-468\_setup\_vx.x.xx, found in the installation CD. After installation ends, connect the USB cable to the USB port of the BS-466/A keyboard or BS-468/A board in order to establish a connection with the panel.

The first time we connect the keyboard or the panel to our PC, we have to wait for the drivers to be installed properly. If we accidentally open the PC program before the drivers' installation is finished, and the communication indicator is red instead of green (see first picture on the next page) we must close the PC program, unplug the USB cable and insert it again. After the drivers finish the installation procedure, we can start the software again.

When the program starts there are 2 options:

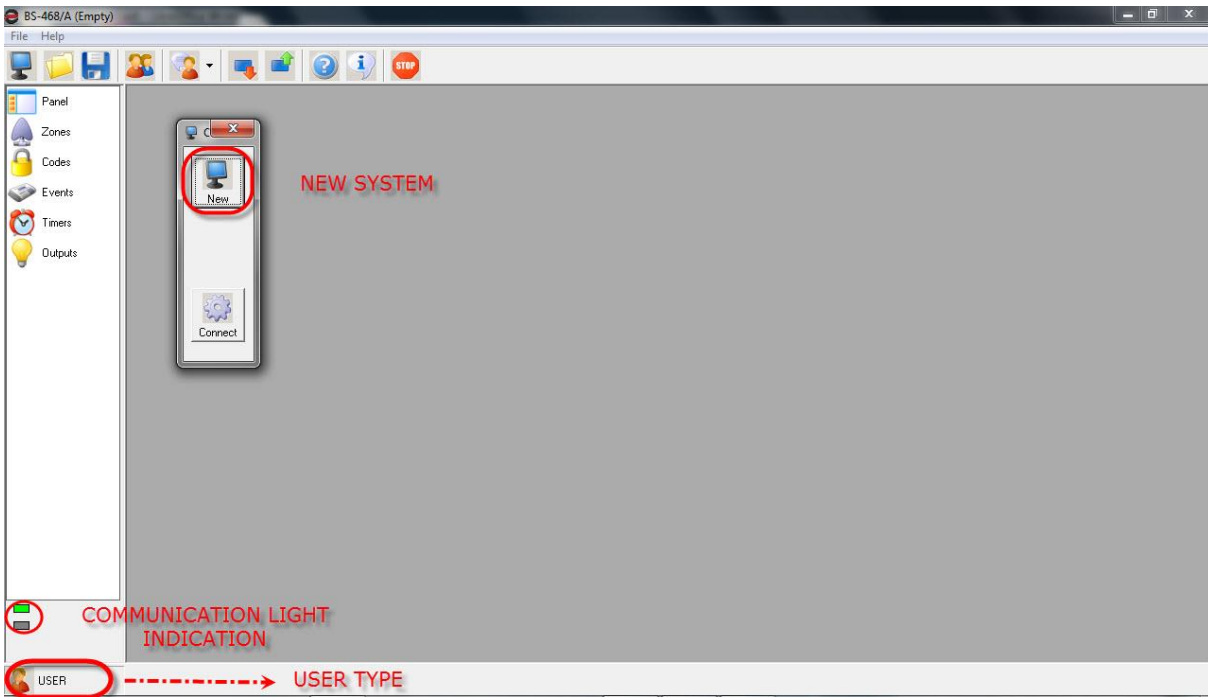
- 1) Online Operation (BS-468/A connected)
- 2) Offline Operation (New file creation)



### Online Operation

First connect the mini-USB cable to a BS-466/A keyboard or the USB Type-B cable on the board. The two modes of connection are shown in the above photos.

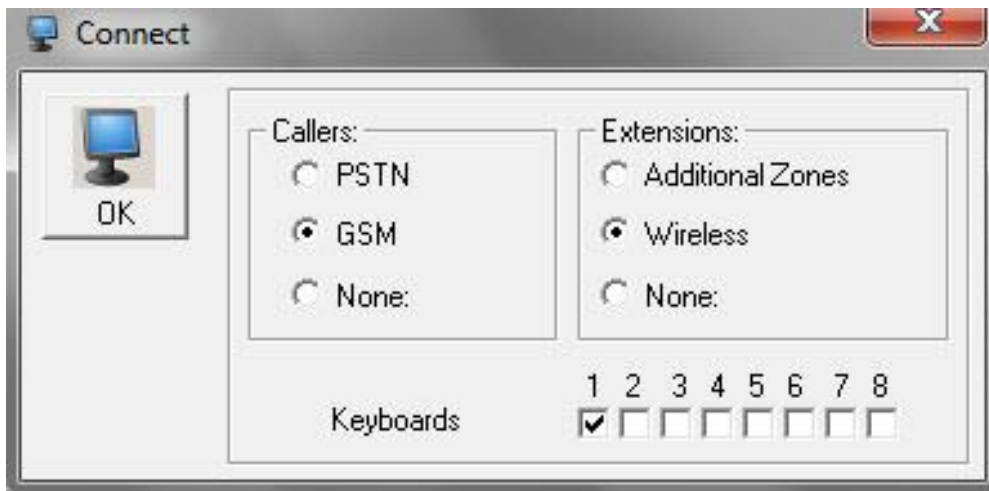
Launch the BS-468 program on the PC. After a short startup screen, we see the home screen. Communication lights in the bottom left corner must be green. The bottom indicator is not permanently green, but it flashes when the panel sends data to PC.



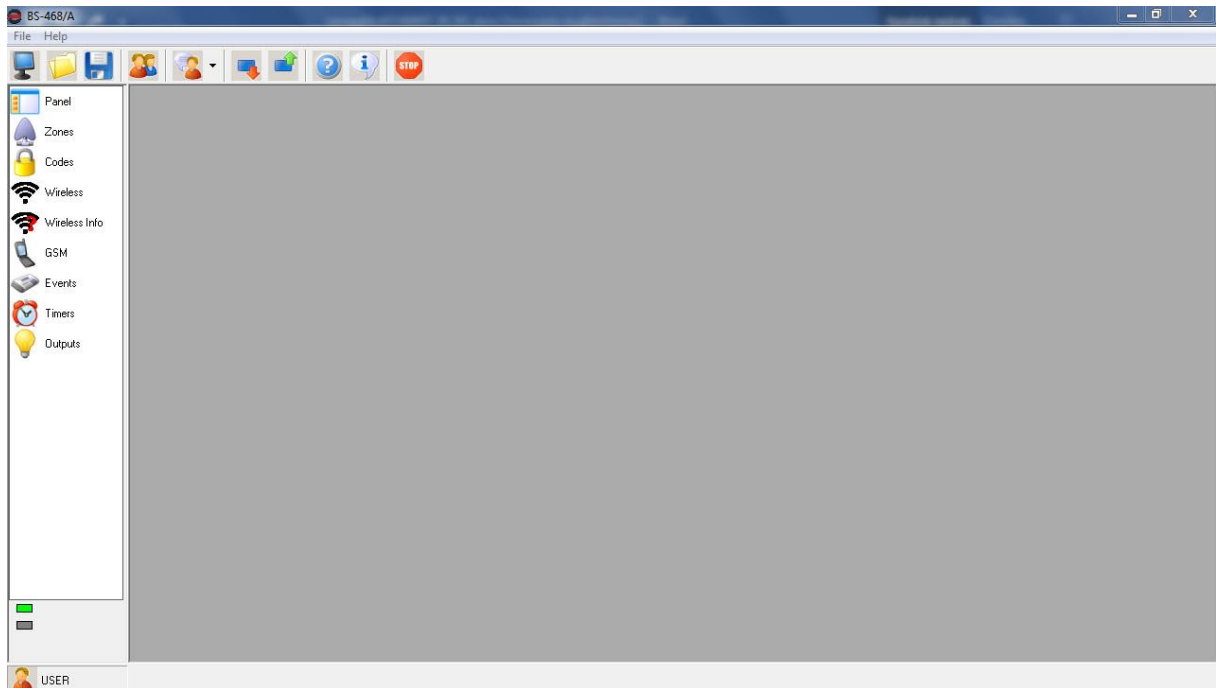
PC-468 initial screen

We press the connect button and the window below appears. After a while the current attached devices of the panel will appear. While the panel tries to enumerate the connected system peripherals, the "OK" button is not active.

The picture below shows an example of a system that has 1 BS-466/A keyboard and the wireless zones extension card BS-479.



Press "OK" to continue. The next window appears.



In the lower left corner, the user type that is enabled can be found. Double-clicking on it will reset the panel to a simple user level. This type of user is not able to program the table.


Depending on the level of access we have (technical or master user), we can make the corresponding changes. To change the user type, we press the user icon in the main toolbar.

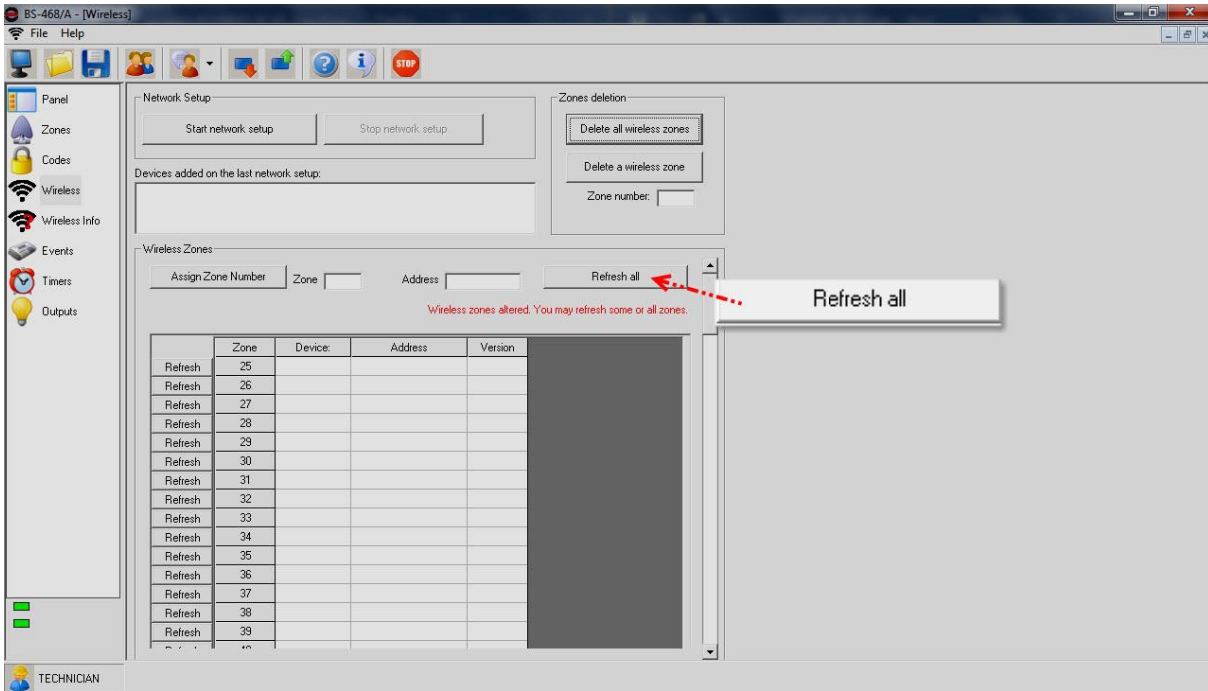


A window appears asking us to give a password. Depending on the code, the access level is different. The factory setting for the technician code is (9 9 9 9), and for master code (1 2 3 4).

From now and on we can change or view all the settings of the panel, such as zones, passwords, events, timers and outputs.

Be noted that depending on the password entered, only the corresponding level features can be altered.

If there is a wireless zone extension card plugged in, we press the wireless zone tab button  and the wireless zones window appears. Then we press "Refresh all" and we wait the process to finish. If there are any wireless zones installed, they will be visible now (see next page's screen).



Wireless zones window

If we want we can download all table settings by pressing the "Download All" button, as shown below.



After that we can adjust or preview all the settings, such as Zones information, passwords, events, timers and outputs.

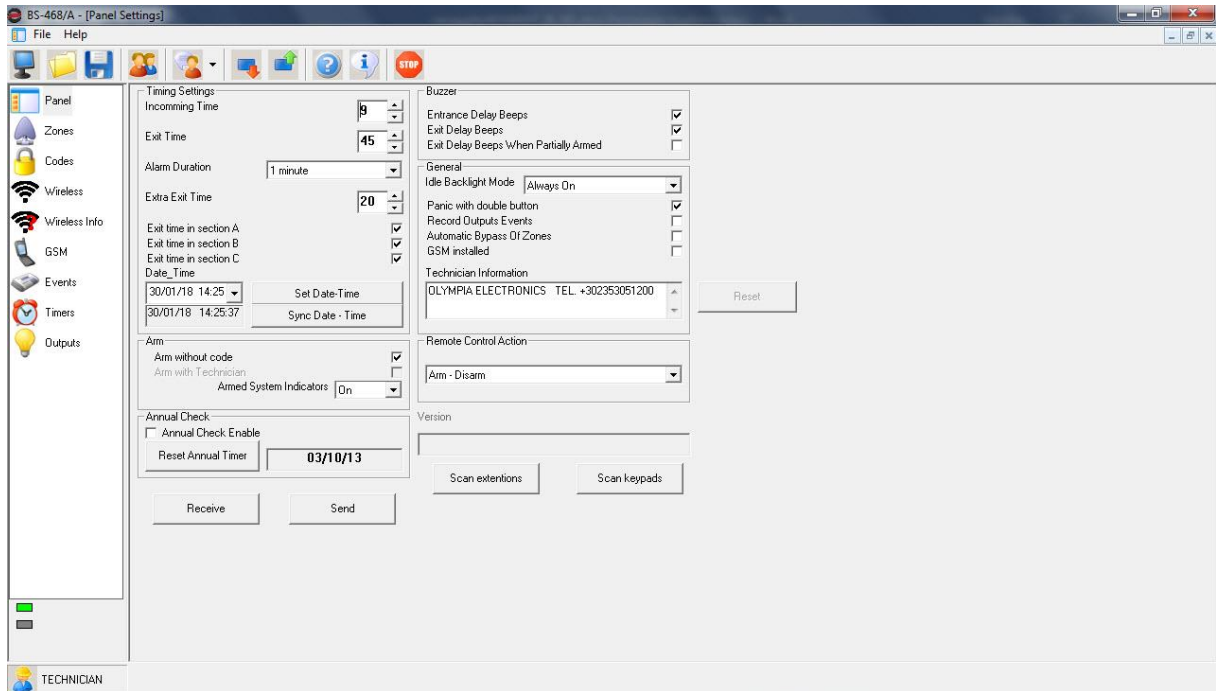
Because this function is time consuming, if we need to take information for specific features of the panel, it is better to load the data from each tab independently.

The available tabs are listed below:

- **PANEL**
- **ZONES**
- **CODES**
- **WIRELESS**
- **WIRELESS INFO**
- **GSM or PSTN** → These tabs appear **ONLY** if BS-479 or BS-465 are present
- **EVENTS**
- **TIMERS**
- **OUTPUTS**

## "Panel" Window

In this window we can see and make changes on the panel settings. We can receive the settings from the panel by pressing the button "Receive". This action is needed in case we have not pressed "Download All", as described on the previous page.



These changes can also be performed by the keypad. By using a PC there is a better overall picture and changes are done quickly and easily. Additionally, by using the PC we have the opportunity to synchronise time and date pressing the corresponding button.

If we want, for example, to change the "Entry time" delay and make it 40 seconds we press the up arrow next to the entry time. Now we can see that the field we have changed is highlighted green and the time is 40sec. This means that we have made a change that is not yet permanent (Not sent to the panel).

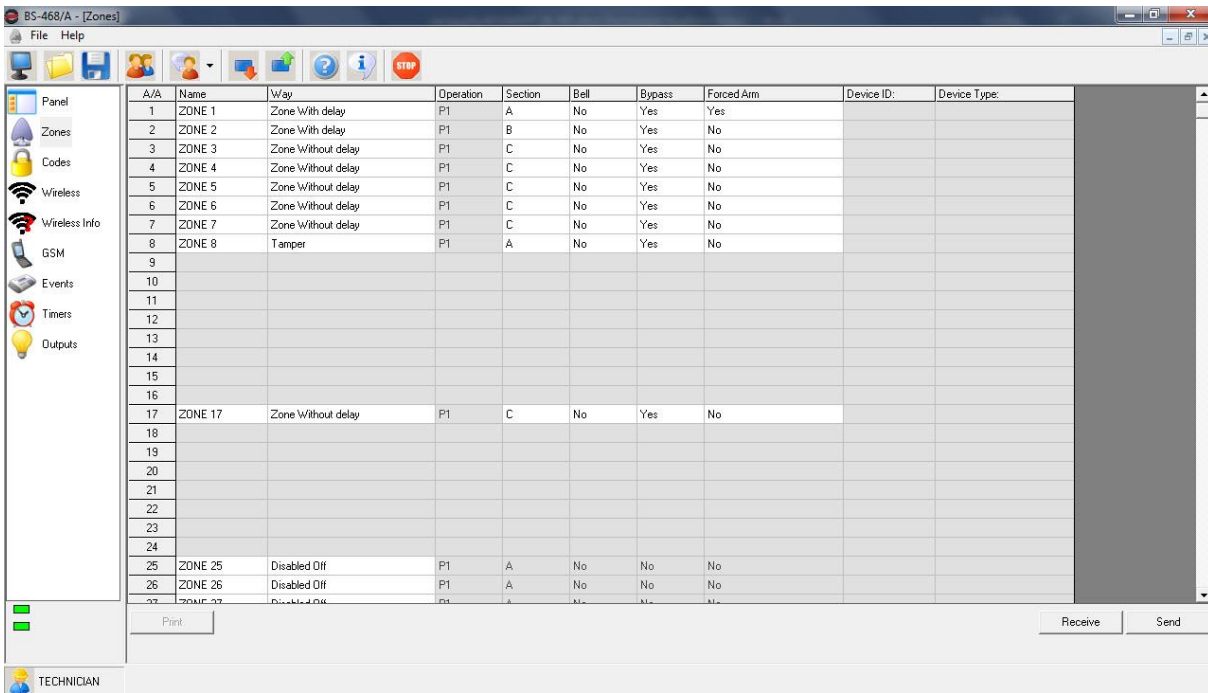
If we want to make the changes permanent we have to press "**Send**". A window showing the send progress appears and it will disappear when the settings have been sent. After that, the entry time field becomes white again.

In general, this is a standard procedure in any window. Whenever we perform some changes, the corresponding fields become green and we have to send these data to apply the changes to the panel.

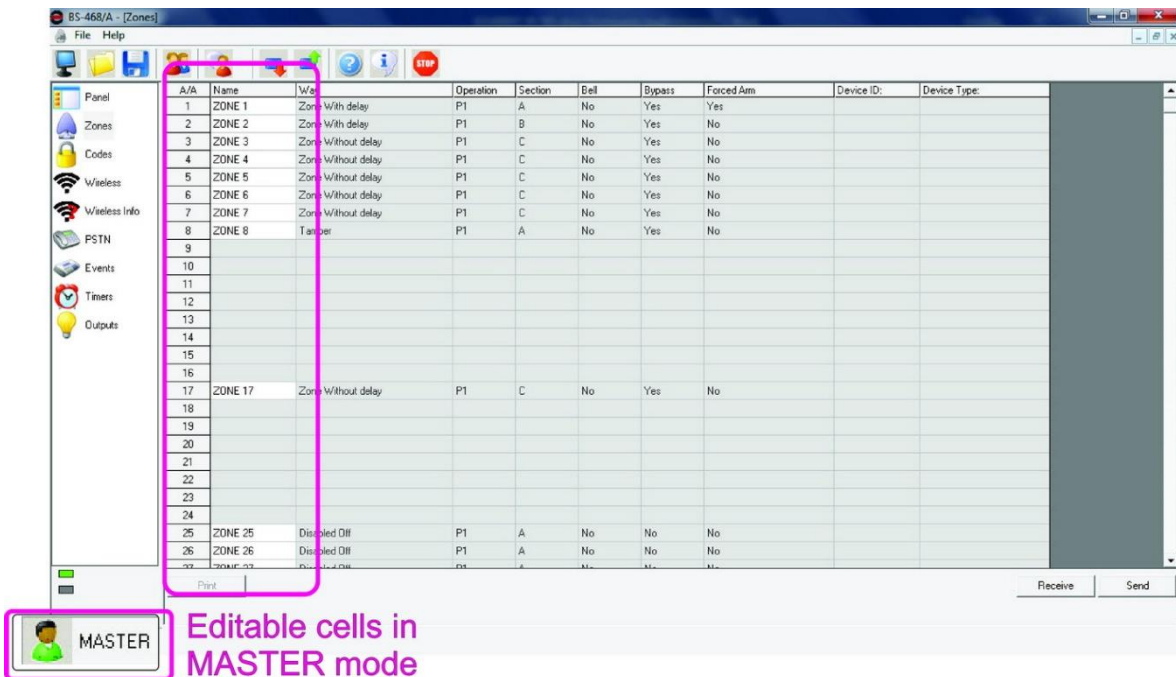
In case we press "Scan extensions" or "Scan keypads", we have to wait 30 seconds and then we must press "New" button on the toolbar. In the following window the new devices must be visible now.

## "Zones" Window

In this window we can change and view each zone's properties (see picture on next page). By pressing the button "Receive", we can receive the information of all the zones. The user can also acquire each zone's properties by single clicking the mouse on the field "Device type" of each zone (last column). If, for example, the user presses the cell of Line 8 and Column 9, the PC will ask the data for that zone only.

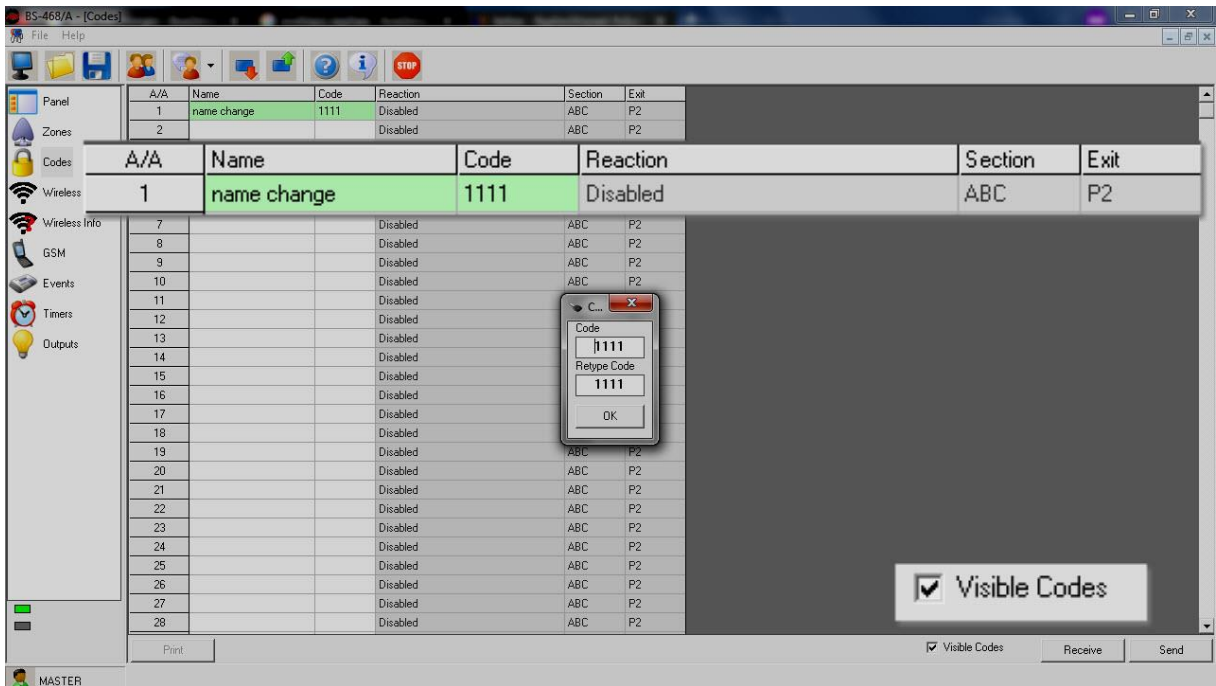


While being in "Technician" mode the user can adjust the function of each zone. If "Master" mode is enabled (see picture below), the user can only change the name of the zone.



## "Codes" Window

In Codes window the TECHNICIAN can make various changes that can also be performed from the keypad. Technician has the right to change the reaction, section and output options. The MASTER can change the password and the name of the "Code" (see the picture below). The "Code" name is not being sent to the panel. It is saved in a file and can help the alarm installer.

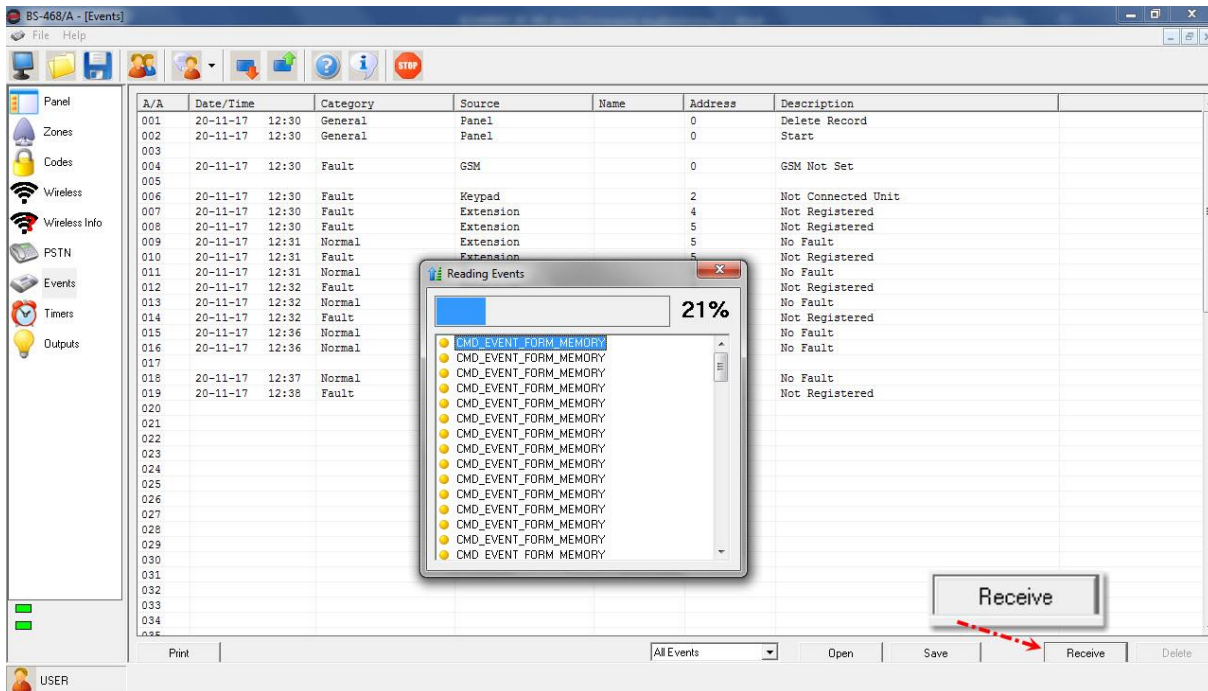


When we change the password, we are asked to type it 2 times for security reasons.

The above picture shows the option "Visible Codes". With this option, the user can choose whether or not he wants the codes to appear in digit form. If this box is deselected, then all the codes that exist are filled with asterisks.

## "Events" Window

In "Events" window we can see the system's events. "Events" is the only window that is visible by all kind of users.



Press 'Receive' in order to download all events from the panel.

The columns that appear are:

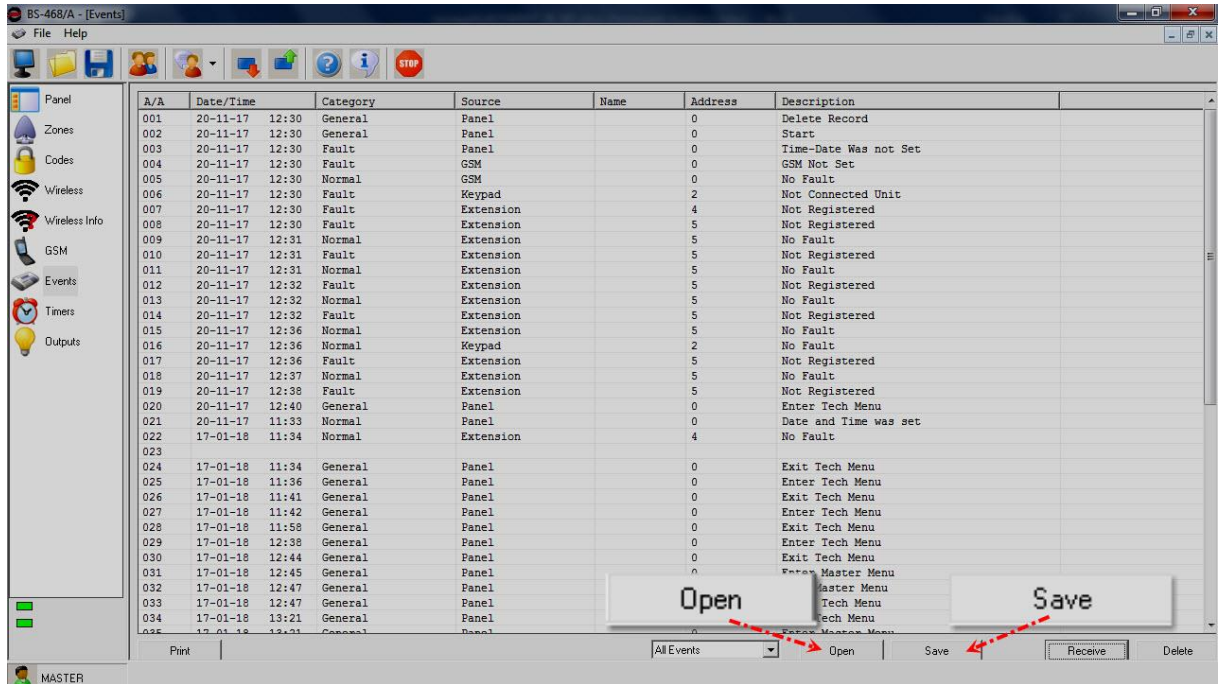
- A / A: The event number.
- Date and time of the event.
- Category: It may be Alarm, Fault, General, Normal, Bypass, Warning, etc.
- Source: Where the event came from. It can be the Panel, Keypad, Zone, GSM, Code, Output etc.
- Name: If the source is a zone, the zone name is shown in this column.
- Address: The address of the source of the event. This is NOT the wireless devices ID.
- Description: A description of the event.

**Attention. The events of the panel are not saved in the file with the settings of the panel.**

We can save them in a separate file by pressing the button "Save" located in the down right corner as shown in the picture below.

The "Open" button is used to load an event file.

By clicking on a single line, the specific event is downloaded.



## "Timers" Window

Through "Timers" window we can program the panel to arm and disarm at specific times.

A/A	Action	Day	Time	Enabled
1	All Armed	Every Day	01:00	No
2	Disarm A	Monday	07:00	Yes
3	All Armed	Every Day	01:00	No
4	Arm A	Wednesday	17:00	Yes
5	All Armed	Every Day	01:00	No

The picture above shows "Timer 2" set to disarm Sector A every Monday at 7:00 while "Timer 4" arms the system every Wednesday at 17:00.

## "Outputs" Window

In "Outputs" window we can see and set the panel's outputs functions. Their operation is described in a previous chapter.

Name	Operation	Section	Logic
P1	On Siren	All ABC	Positive Logic
P2	Fire Sensing Power	All ABC	Positive Logic
P3	Flashes	All ABC	Positive Logic
RELAY	Manual	All ABC	Positive Logic

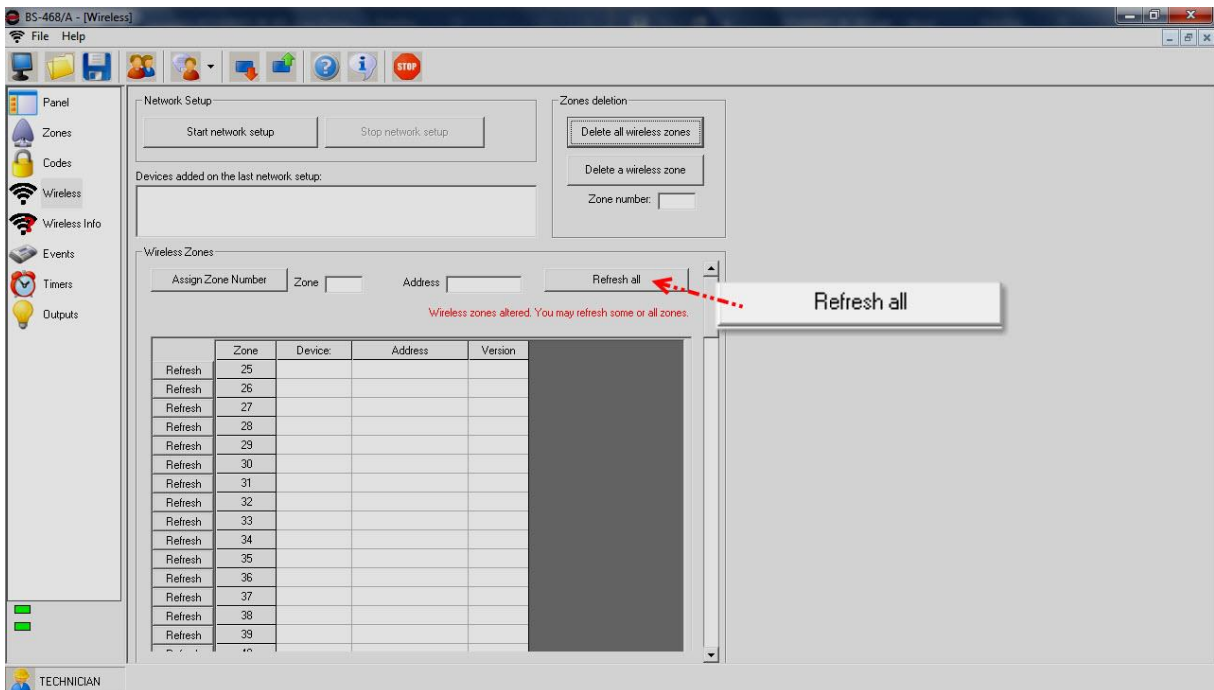
In the "Name" column we can write a name to remember the function of e.g. WATERING. This information exists only in the PC file and not in the table.

## "Wireless" window

The Wireless window contains the main functions and settings of the wireless network. This and the "Wireless Information" windows are available when BS-479 is installed and scanned properly and the Pc program works in "Online Mode".

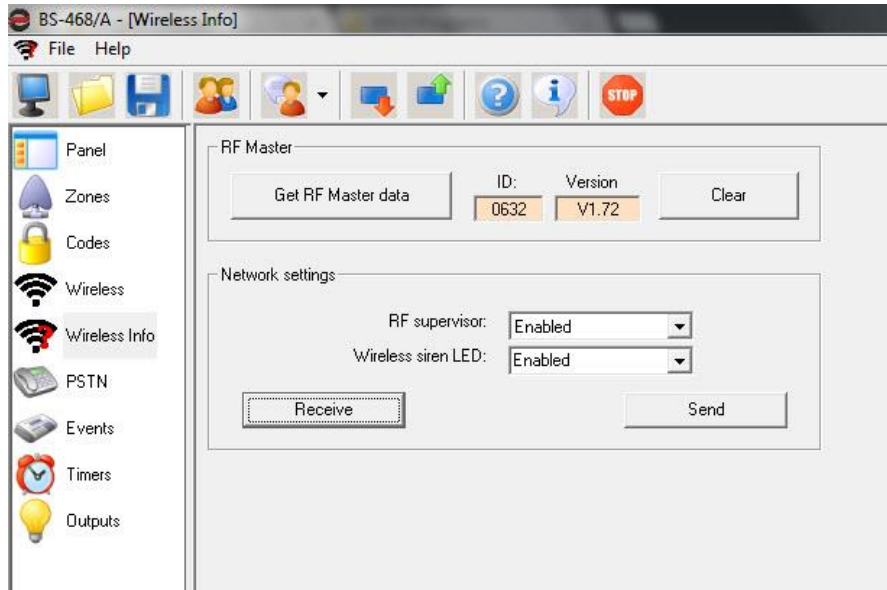
From the specific window the technician can perform the following tasks:

- Install wireless devices: The "Start Network Installation" button starts the installation process. This is described in a paragraph above. The "Stop Network Installation" button stops the installation. Added devices appear in the white text box below the "Network Setup" section.
- Zones deletion: With "Delete all wireless zones" button, we can delete all the available wireless zones that exist in the system. If we want to delete a single wireless zone, we can do it by pressing "Delete a wireless zone" button after filling the desired zone number.
- Zone assignment: With "Assign Zone Number" button the technician can assign a zone number to a specific device ID.
- Receive Wireless Zones information: By pressing the "Refresh all" button, the technician can receive all zones' data. By pressing the "Refresh" button that is found to the left of each zone line, the user can refresh each zone's data respectively.



Wireless Window

## "Wireless Info" Window

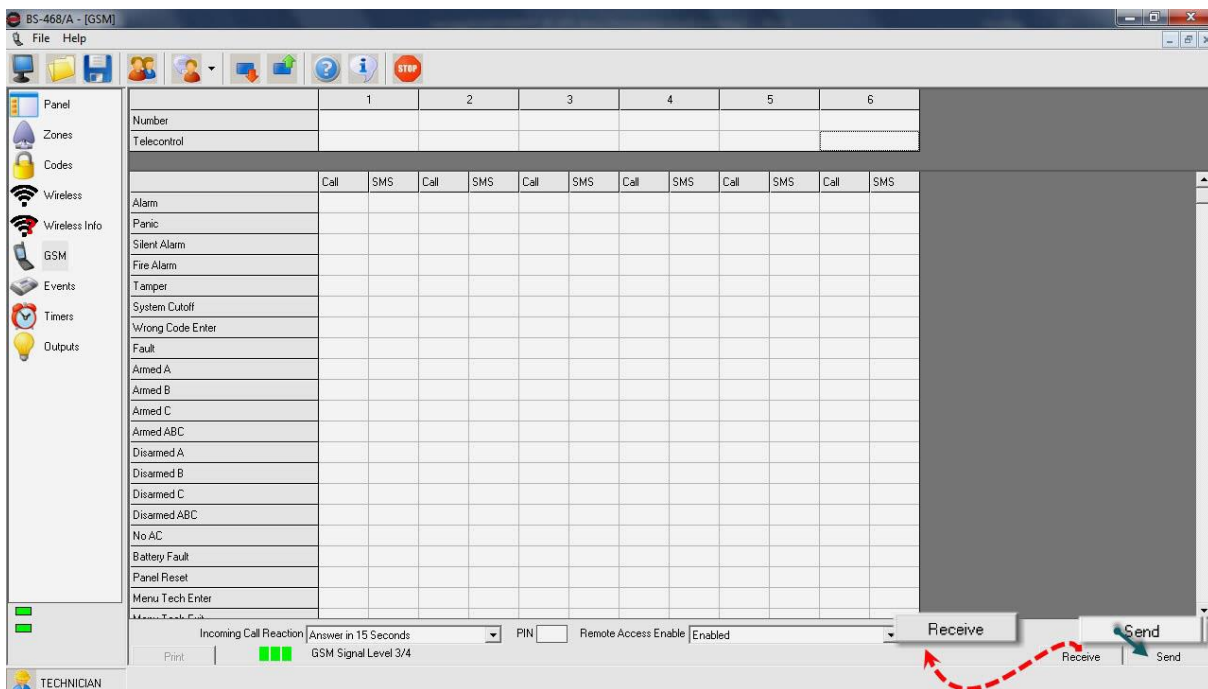


Through this window, the user can perform the following:

- Receive BS-479 wireless zones extension ID and program version. These fields are read only.
- Receive and set RF supervisor and Wireless Siren LED. By pressing the "Receive" button we can read the data from the panel. By pressing the "Send" button we can send these data to the panel.

## "GSM " Window

If there is a BS-464 GSM automatic dialer extension card installed to the system the user has access to the following window.



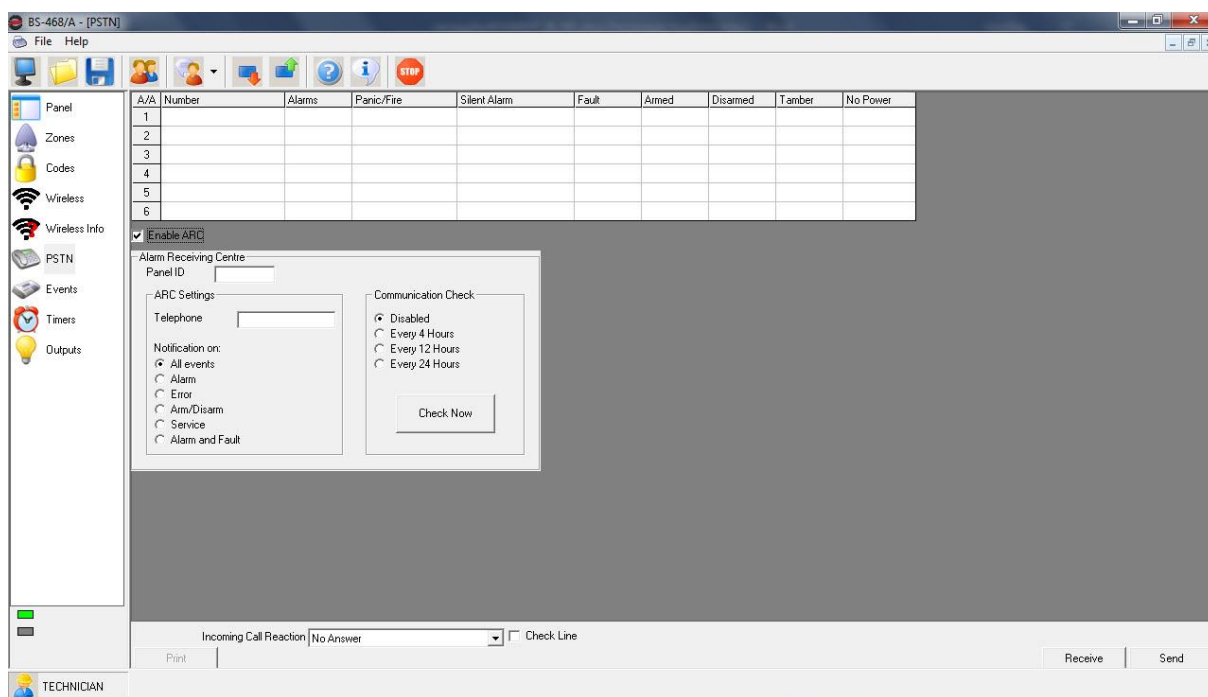
With "Receive" button, we can read the settings of the "GSM" extension and telephone numbers (if any), while with the "Send" button we can send the changes we have made. In the lower section of the screen the following properties are displayed:

- Response to incoming call: The available settings are "Answer in 15 seconds" and "No answer". With this setting we can define the reaction of the system to an external phone call.
- PIN: The 4-digit PIN code of SIM card.
- Remote Access Enable: This option is explained on page 32 of this manual.
- GSM Signal Strength: The receive signal strength of the external antenna. This option is read-only.

The cells existing in the tab are divided in 6 phone numbers with its corresponding settings. The number must be active. In the area below the number there are cells where we can define the actions that will be performed when events are triggered by the panel. These actions can be either calls to the corresponding number, text messages or both of them.

## "PSTN" Window

If there is a BS-465 PSTN automatic dialer extension card installed to the system the user has access to the following window.



By pressing the "Receive" button, the user can read the settings of the PSTN extension. By pressing "Send" button the user can send the changes made, to the panel. In the lower section of the screen the following functions are displayed:

- Response to incoming call: The available settings are "Reply to xx seconds", where xx = 5, 10, 15, 20, 25, 30, 40 seconds, "No answer" and "Answer to the 2nd beep". With this setting we define the reaction of the system to an external call.
- Check Line: Check box for Line testing.

For more information, please refer to page 30 of this manual.

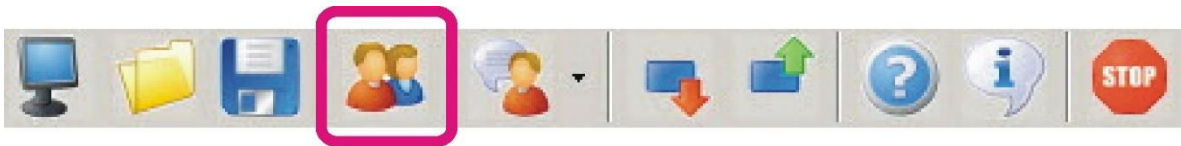
The cells existing in the tab are divided into 6 phones with the corresponding settings. The number must be real. In the area next to the number there are cells that we can define the actions that will be performed when there are events. These events are Alarms, Panic or Fire Alarm, Silent alarm, Fault, Arming, Disarming, Alarm Tamper, Alarm on absence of AC power.

If the system is connected to a Alarm Receiving Center, we can set or read the settings of this center.

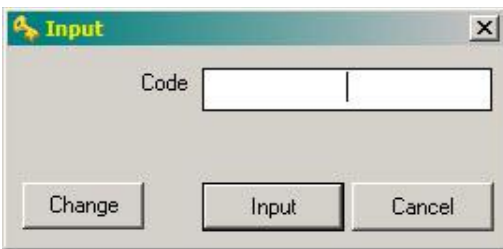
### Master and Technician user password modification

In case we have gained TECHNICIAN or MASTER access we can change the password as follows:

We press the user button on the main bar.



The following window pops up:



Press the "Change" button and the window below shows up:



We enter the new four-digit password twice and click OK. The new password has immediate effect.

### Change application language

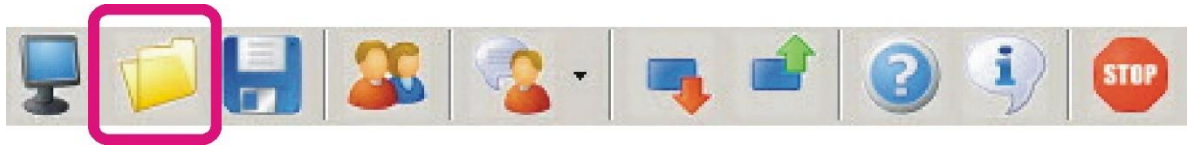
The language of the entire application can be changed using the "Language" button as the following image shows.



The languages supported are Greek, English and French.

### Load settings from a file

By pressing the highlighted button, we can open a settings file that we have created or saved from another system.



In case of Keypad scanning and/or extensions scanning, the order of the actions to be taken to load data from the file is as follows:

- 1) Scan Keypads and/or extensions
- 2) Load settings file
- 3) Press "New" and then "Connect"

### Save settings to a file

By pressing the following button, we can save our personal panel configuration.



ATTENTION! In order to save all the settings and adjustments that we have made in a panel which operates in "Online Mode", all the data in all windows should have been updated. That means NO green fields in any window should exist.

### Send settings to the panel

By pressing the following button we can send all the present data to our panel.



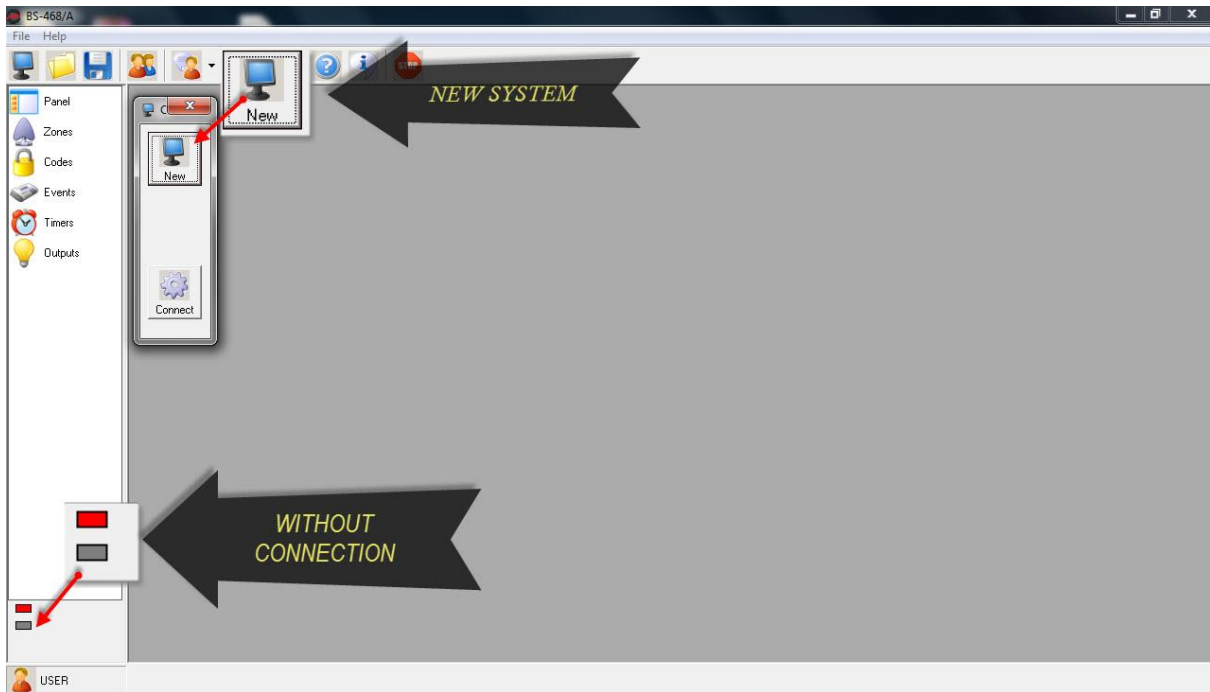
We usually use this action after "Loading settings from file".

## Offline Connection

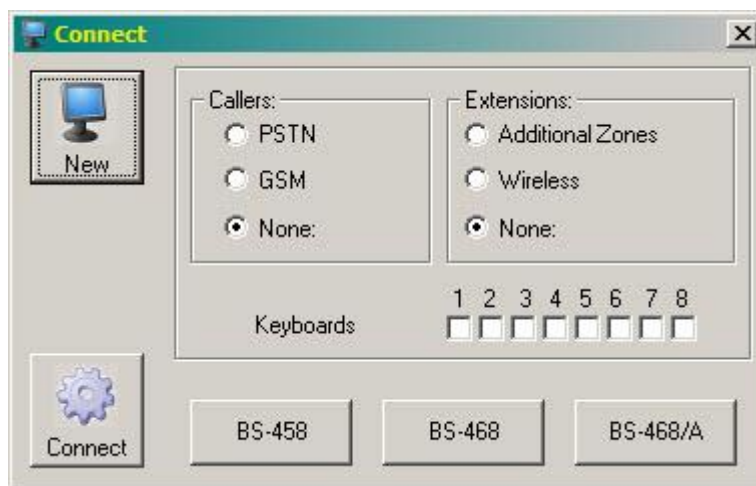
The PC program is operational even if a panel is not connected. Of course, the available functions are limited. This feature helps the installer to prepare a system without being connected to a table.

## New

With this option we are starting a new installation without any panel connected.



The red colour in the indicator to the down left bottom of the above screen reveals the connection absence between the panel and the PC. After we press the button "New", we see the following window:



We can choose whether our system will have a GSM or PSTN dialer, or if a wireless or wired zones extension will be available. We can also choose the number of BS-466/A keypads.

By pressing any of the 3 buttons on the bottom of the window, we can choose the appropriate alarm type.

The installer is responsible for the right choice of extensions of each panel type.

If, for example, the "Wireless Extension" option is selected at the same time with a "BS-458" panel, which does not support this function, the panel will not contain wireless zones because this feature does not exist on BS-458 panels.

Also, if "BS-458" panel is selected, it is up to the installer to choose whether the specific panel has a GSM extension.

After selecting the panel type, the home screen appears, where the desired modifications can be made.

Finally, we can save table properties to a file.

### **Panel's Firmware Update**

In case the panel is to be upgraded, its settings are lost. If we want to prevent this, we have to follow the following procedure:

- 1) Receive All Settings
- 2) Save (of all data in .oaf file)
- 3) Firmware Upgrade (Ctrl-F1)

The firmware of BS-468/A can be updated through the program BS-468. From the menu, press "HELP" → "Firmware Update Ctrl-F1". In order to go on through the procedure, the user has to be connected as "TECHNICIAN". The panel has to be connected to the PC through the USB port that is present on the main panel board and NOT on the keypad BS-466/A.

The user is asked if he agrees with the upgrade. At this point, the version in which the table will be upgraded is also mentioned. For the latest version of the board program, it is necessary to download the latest version of the PC-468 program from the company's site.

During the next step the user will be asked to type the TECHNICIAN user password once again and the upgrade procedure starts. A window box appears. If the message "Press any key to continue..." comes out, then you have to press the "ENTER" key in the PC keyboard.

During upgrade procedure, the power supply to the panel and the connection to the PC should not be interrupted.

When the procedure is finished, the user has to press "OK" at the dialogue box that appears and the program shuts down automatically.

Continuing, it is essential that the USB has to be disconnected as well as the power supply and battery must stay unplugged for 30 seconds. After that time period connect the battery and power supply.



**ATTENTION!** For safety reasons, the user should not unplug the USB cable, while the PC program is active. If, however, disconnection occurs, the panel for about 1 minute is programmed to stay in "TECHNICIAN" mode, to avoid data loss.

## 4.1 - OLYMPIA APPLICATION

“Olympia Electronics Alarm” application is available for smart phones and tablets for Android or IOS. You can download it at Google play or Apple store.



ios



## 5. Technical Characteristics

Description	<b>BS-468/A</b> Burglar alarm system
Power Supply	220-240V AC/50-60Hz
Consumption	11VA
Battery type	Sealed lead acid (Pb) battery 12V / 7Ah Max (not included)
Charger	Stabilized power supply 13,8V / 400mA.
AS siren circuit	The AS output powers the external sirens and is used to charge the batteries of these sirens with a rating of 13.8V / 500mA. This output continuously provides power.
ES siren circuit	The ES output is used to power the internal siren and provides 13.8V up to 500mA. It is activated during an alarm and is deactivated when the alarm goes off.
Outputs P1,P2,P3	General outputs with a 13,8V 200mA rating. These outputs are activated depending on the panel settings.
Relay Output	Relay change-over output (NC,C,NO). The voltage / current limit is 30VDC / 1A.
12V Output	General output power for devices (13.8V / 500mA).
Zones	8 independent wired zones inputs with 5.6k $\Omega$ terminal resistance on each of them. 32 wireless zones inputs with BS-479 extension card.
Maximum load	The maximum load connected to the panel (Outputs P1,P2,P3, BS-466/A, 12V etc.) must not exceed 1A.
Degrees of cover protection	IP30
Humidity	Up to 95% relative humidity
Constructional material	ABS - polycarbonate
Dimensions	322 x 241 x 97 mm
Weight	1300 gr
Produced in accordance with	EN 50131-1_Grade 2_Class II και EN 50131-6_Type A
Guarantee	2 years

## 5.1. *Peripheral device consumption chart*

Type	Description	Consumption in mA
BS-463/A	Keyboard without display	40mA
BS-413	Siren	6mA at rest
BS-464	GSM telephone dialer card	120mA
BS-465	PSTN telephone dialer card	30mA at rest
BS-466/A	Keyboard with LCD display	35mA with screen on
BS-469	8 zone expansion card	40mA
BS-479	Wireless zones expansion card	5mA RX mode / 20mA TX mode
YET-205B-630	Remote control receiver card	10mA

### **WARRANTY**

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid. Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of deflection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

### **HEAD OFFICE**

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[info@olympia-electronics.gr](mailto:info@olympia-electronics.gr)

## 6. Information regarding the installation

### Passwords

Master (central) password : ( 1 2 3 4 ) \_\_\_\_\_

Technician password : ( 9 9 9 9 ) \_\_\_\_\_

### Users' Passwords

A/A	Password	Owner	Function	A/A	Password	Owner	Function
01				26			
02				27			
03				28			
04				29			
05				30			
06				31			
07				32			
08				33			
09				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

## Zones

A/A	Section (A B C)	Area	A/A	Section (A B C)	Area	A/A	Section (A B C)	Area
01			20			39		
02			21			40		
03			22			41		
04			23			42		
05			24			43		
06			25			44		
07			26			45		
08			27			46		
09			28			47		
10			29			48		
11			30			49		
12			31			50		
13			32			51		
14			33			52		
15			34			53		
16			35			54		
17			36			55		
18			37			56		
19			38					

### Various information

Entry time : \_\_\_\_\_ seconds    Exit time : \_\_\_\_\_ seconds

Extra Exit Time : \_\_\_\_\_ seconds

Siren sound time : \_\_\_\_\_ minutes