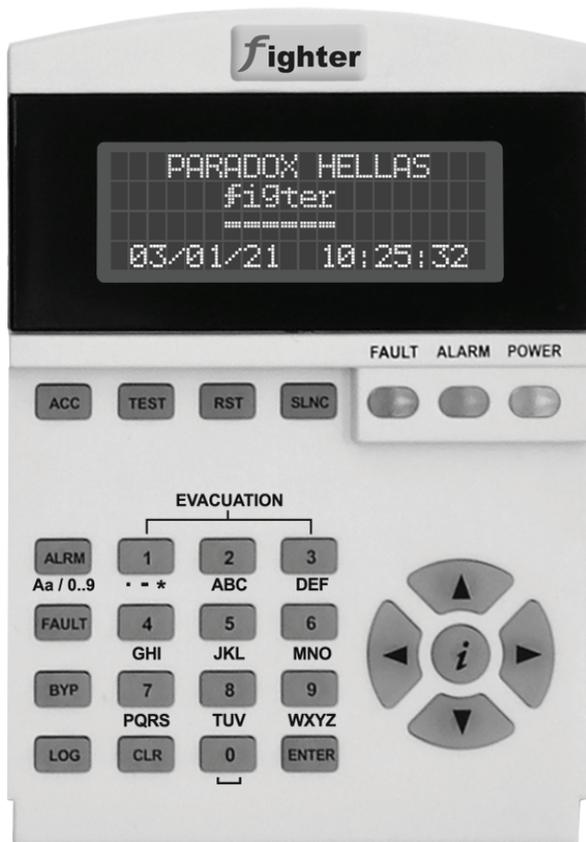


fighter



User / Installation Guide

Stand Alone LCD Keypad / Repeater Fighter KSDA

Version: 1.0
Revision: 2



RoHS directive compliance

The EC RoHS guideline has been released in order to reduce the heavy metal load in electrical and electronic products caused by e.g. lead and mercury. All manufacturers are obligated to provide only RoHS-compliant products to the European market, effective from July 1st, 2006.

Paradox Hellas hereby states that Fighter panel is fully compliant with RoHS 2002/95/EC directive.



Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.

2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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1. Introduction

This current document is the User / Installation Guide for Fighter's Stand Alone LCD Keypad / Repeater.

2. Typing conventions, semiology and terminology

Throughout this manual the use of specific symbols and character types signify specific items. The following table summarizes the typing conventions:

- **[]:** **Button/Indicator.** A Keypad button that can be pressed. The button also works as an indicator that can be lit or not. e.g. [ACC].
- **< >:** **Button.** A Keypad button that can be pressed. e.g. <5>.
- *** *:** **Indicator.** A visual indicator that may be lit or not. e.g. *ALARM*.
- **| |:** **TEXT ON LCD DISPLAY.** Text that appears on the LCD display by the system.
- **" ":** **TEXT ENTERED BY THE USER.** Text that appears on the LCD display as a result of user input.

The following terminology is used :

- **PSU:** Power supply unit
- **A.L.:** Access Level
- **ALM:** Access Level Menu
- **ALM.x.y.z:** Access Level Menu x, subitem y, subitem z.

3. Keyboard description

Each keypad (Figure 1) has several buttons with some having different functions depending on the system's state.

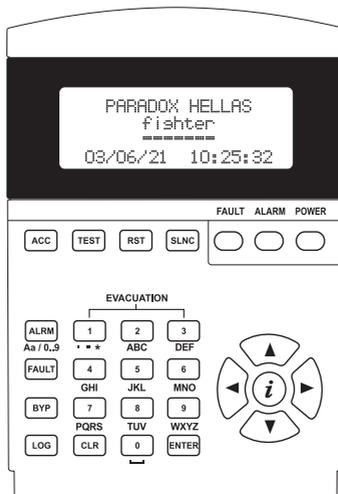


Figure 1. Fighter Stand Alone LCD Keypad/Repeater

The following table summarizes each key's functionality:

[ACC]	Button/Indicator Enters access level 2 or 3. The corresponding access code is required. Factory default access codes are "2222" and "3333" for access levels 2 and 3 respectively.
[TEST]	Button/Indicator Tests the keypad by turning on all LEDs, the buzzer and display a test pattern on the LCD screen. NOTE: <i>The TEST LED which is combined with the test button, is also used as communication status indicator. When the LED is lit the keypad is sending data to the main board.</i>
[RST]	Button/Indicator Resets the panel's state including alarm zones, faults etc. (needs access level 2 or 3).
[SLNC]	Button/Indicator Silences alarms or faults (needs access level 2 or 3).
<ALRM> (Aa / 0..9)	Button Displays the system's ALARMS in two different screens. The first press shows a list of zones in Alarm; by pressing the button again the zones overview screen is shown. Further presses of the <ALRM> button alternates between these two screens. Alternative function: During text input field editing (access level 2 and 3 programming), changes character entry mode from numeric to T9 (text entry mode as used on mobile and telephone devices).
<FAULT>	Button Displays the system's FAULTS in two different screens. The first press shows a list of zones in fault; by pressing the button again the zones overview screen is shown. Further presses of the <FAULT> button alternates between these two screens. Alternative function: During text input field editing (access level 2 and 3 programming), deletes the character that the cursor is over.
[BYP]	Button/Indicator Displays the system's disablements in two different screens. The first press shows a list of bypassed zones; by pressing the button again the zones overview screen is shown. Further presses of the [BYP] button alternates between these two screens.
<LOG>	Button Shows the log events from the main board. While in the LOG screen the user can navigate through the log using the arrow keys (UP=RIGHT=get next log and DOWN=LEFT=get previous log).
<CLR>	Button Returns to the previous menu or to main menu depending the current menu.
<ENTER>	Button Selects an option/menu or submits a change during editing.
<NUM PAD> (keys 0-9)	Button Keys use for data entry and menu item selection. They can be operated either in numeric mode or in T9 (text and numbers) entry mode.

<i> (info key)	Button Displays help information about a menu or action. In the main screen it displays the Menu of Access Level 1 (informational).
<ARROW KEYS>	Button Navigate through menus, lists and log.

Table 1. Keyboard description

4. Bus connection

If the system has modules other than the ones inside the main cabinet, they must be connected with the 4 wire bus. Each module has a 4 way terminal block for this purpose. The correct connection is show in Figure 2. Take great care not to mix the data wires with the power wires as permanent damage may be caused.

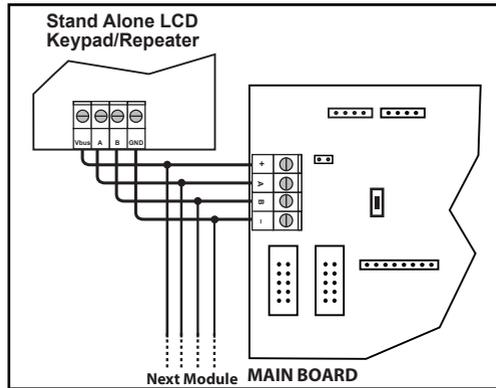


Figure 2. BUS connection

5. Setting keypad modules IDs

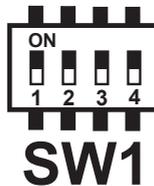


Figure 3. Set of dip switches

All modules except the power supply units (PSUs) have a set of dip switches (Figure 3) that controls their address on the bus system.

It is very important to set a unique address to each keypad. Follow the rules below to set a correct set of addresses:

- The panel's keypad board ID must be set as ID=0. Set the dip switches SW1-1 to SW1-4 to OFF.
- Each "Stand Alone" and "On Panel" keypad must have a unique ID from 1 to 8. See Table 2 for IDs against dip switch settings.



It is obligatory the panel's keypad ID to be set as ID=0.

Micro switches SW1				
ID	SW1-1	SW1-2	SW1-3	SW1-4
0	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON

Table 2. Keypads' micro switches SW1 ID settings

6. Users (Master / Normal, Installer)

The fire panel apart from having two elevated access levels, also provides 9 users for access level 2; one Master and 8 Normal users. All users are limited to access level 2 operations (including the Master user). The Master user though may change the PIN codes for himself as well as all 8 Normal Users. Each Normal user can change only him/her own PIN. This system ensures that the Master user can have control over who is authorized to operate the system without disclosing his/her own PIN. This ensures future user control in the case of access revocation for a specific user.

The Access level 3 (A.L.3) user (Installer) has full control over the entire system, including the Master and Normal user codes, programming and operation of the system. In other words Access level 3 (A.L.3) may perform operations that belong to the Access level 2 (A.L.2) group.

7. Access Levels

The fire panel during its operation is said to be in a specific access level; from 1 to 3. Each access level defines what operations are allowed and what are protected. Each Access Level may be activated or "entered" by entering the requested code (or PIN) for the corresponding access level. Factory default access codes are "2222" and "3333" for access levels 2 and 3 respectively. There are operations and menus that require an elevated access level (other than 1, see Table 3 for operations summary). If the user initiates an operation that requires increased access level the system will prompt for the PIN, and once successfully entered, it will execute the operation and return to access level 1. Alternatively the user may request the menus of access level 2 or 3 (by pressing [ACC] key). In this case he/she will be prompted for the PIN and once successful, the access level menu will be displayed for further operations. While the access is granted, any operation under the specific access level is possible and the user will not be asked for the PIN every time. Elevated Access levels are canceled if the user willingly exits (by pressing <CLR>) or the menu times out due to user inactivity.

The Table 3 below summarizes the basic functions and their required access level.

Basic Function	Access Level Required
Access level 2 menu	A.L. 2 / A.L. 3
Access level 3 menu	A.L. 3
Zones Reset	A.L. 2 / A.L. 3
Silence	A.L. 2 / A.L. 3
Bypass	A.L. 2 / A.L. 3
Test	A.L. 1
Log	A.L. 1
Display alarms	A.L. 1
Display Faults	A.L. 1
Display bypasses	A.L. 1
Evacuation	A.L. 1 / A.L. 2 / A.L. 3
System Programming	A.L. 3
Date/Time set	A.L. 2 / A.L. 3
Walk Test	A.L. 2 / A.L. 3
Periodic Test Confirmation	A.L. 2 / A.L. 3

Table 3. Basic functions required access levels

Since the system may have more than one installed key display units, an interlocking system ensures that only one is active at access levels 2 or 3. In this case the **[ACC]** key is constantly lit on the active key display. On the rest of the key display units the **[ACC]** key is producing three short flashes every 5 seconds. The user may press **[ACC]** on a locked key display to find out which unit is currently in elevated access mode. To ensure that the system will never be locked untenanted in elevated access level, it detects user inactivity and drops to access level 1 automatically after a period of 30 seconds.

8. System Information and status

In Access level 1 (A.L.1) the user may request through the level's menu a number of information screens. The A.L.1 menu is shown by pressing the **<i>** button while on the main screen. The items of the A.L.1 menu is as follows:

1. Zone descriptions
2. Zone overview
3. Zone configuration
4. Installed modules
5. Power levels
6. System info
7. Contact info



Pressing **<i> on some screens will display a help screen with useful related information.**

8.1 Installed modules, Module Identification

This screen represents an overview of the installed modules (expansions) with each LCD character representing one module. The top LCD line forms an index with the module ID. The next 3 lines display the Relay expansion modules (**[RL]**), Zone modules (**[ZM]**) and Key display modules (**[KD]**). The state of each module is shown with

the following character representation:

|□|: Module present and healthy. No extra PSU attached.

|■|: Module present and healthy. Extra PSU is attached.

|_|: Module not installed.

|L|: Module is not present or not communicating.

|F|: Module reports zone or relay fault(s).

|S|: Attached PSU reports Mains power lost.

|B|: Attached PSU reports Battery connection fault.

|R|: Attached PSU reports batteries need replacing.

|P|: PSU and Battery in fault.

|V|: Module in low voltage mode / out of operation.

|2|: Keypad in access level 2.

|3|: Keypad in access level 3.

|O|: Selected module for identification (see bellow)

Module Identification

The system provides a mechanism for selecting a module and activating it's status LED or the LCD's backlight (for keypads). The selected module's LED produces a sequence of 3 rapid flashes and a pause every second. For Keypads the LCD backlight toggles on and off every second. This mechanism helps the installer or maintainer to identify a module without margin for error.

To select a module:

- In the "Installed modules" screen press **<ENTER>**: A small i appears on the top left of the screen and a cursor is activated.
- Move the cursor with the arrow keys over an installed module and press **<ENTER>**: The module character changes to |O|.
- The LED or backlight on the selected module start to flash with the identification pattern.
- To stop the identification pattern press **<ENTER>** again on the activated module or on an empty module space.

The **<CLR>** button on an activated keypad, will also deactivate the flashing pattern

Only one module can be selected at any time. Selecting a new module while another one was active, will cancel the last activation.

Exiting the screen with a module selected will not stop the identification process.



The system's operation is not affected in any way by the module identification mechanism.



Pressing <i> will display a help screen with the above table.

9. Access Level 2

The items of the A.L.2 menu is as follows:

1. Evacuation Start
2. Bypass Zones
3. Bypass Relays
4. User's code
5. Zone descriptions
6. Periodic Test
7. Time/Date Adj.
8. Walk Test
9. Intellizone Cancel



Pressing <i> on some screens will display a help screen with useful related information.

- Press [**ACC**] button to enter access level 2: Access Code Prompt is displayed.
- Enter a valid PIN: Access Level 2 menu is displayed.

9.1 Evacuation Start

To activate evacuation:

- Press <1> to select menu item [**1 Evacuation Start**]: The evacuation settings are displayed.
- Press <ENTER> to confirm or <CLR> to cancel evacuation.

9.2 Bypass Zones

To activate a bypass on a zone:

- Press <2> to select menu item [**2 Bypass Zones**]: The list with all available zones is displayed.
- Use <Up> <Down> keys to place the flashing cursor on the required zone.
- Use the <Right Arrow> to activate a bypass and <Left Arrow> to cancel a bypass.
- Once finished press <CLR> exit to access level 2 menu.

9.3 Bypass Relays

To activate a bypass on a relay:

- Press <3> to select menu item [**3 Bypass Relays**]: The list with all available relays is displayed.
- Use <Up> <Down> keys to place the flashing cursor on the required relay.
- Use the <Right Arrow> to activate a bypass and <Left Arrow> to cancel a bypass.
- Once finished press <CLR> exit to access level 2 menu.

9.4 Bypass Information Screens

A quick overview of all active bypasses may be shown in a list. Only zones with active Zone or Relay bypasses will be included.

To get information about active bypasses:

- Press **[BYP]** button: A list with only bypassed zones is displayed. The list is scrollable with the arrow keys. In the list view each zone bypass is shown with either **|(Z)|**, **|(R)|** or **|(Z+R)|** in front of the zone description (Z stands for Zone, R for Relay).
- Pressing **[BYP]** again: The zones overview screen is displayed. Each zone is represented as one character. Bypassed zones appear as:
 - |z|**: Zone bypass only
 - |r|**: Relay bypass only
 - |b|**: Zone and relay bypass.

9.5 User's Code

To activate user's code:

- Press **<4>** to select menu item **[4.User's Code]**: The user's code settings are displayed to edit.
- Press **<ENTER>** to edit user's code, by using the alphanumeric buttons. Re-press **<ENTER>** to accept editing and add the name of user.
- Once finished press **<CLR>** exit to access level 2 menu.

9.6 Zone Descriptions

To zone descriptions:

- Press **<5>** to select menu item **[5.Zone Descriptions]**: The zone description list is displayed.
- Use **<Up>** **<Down>** keys to place the flashing cursor on the required zone.
- Use **<ENTER>** to edit zone description, by using the alphanumeric buttons.
- Once finished press **<CLR>** exit to access level 2 menu.

9.7 Periodic Test

To activate a periodic test:

- Press **<6>** to select menu item **[6.Periodic Test]**: The periodic test info are displayed.
- Use **<ENTER>** to verify the execution of periodic test.
- Once finished press **<CLR>** exit to access level 2 menu.

9.8 Time / Date Adj.

To activate a time / date adj.:

- Press **<7>** to select menu item **[7.Time/Date Adj]**: The time / date adj. settings are displayed.
- Use **<ENTER>** to edit a selection.
- Once finished press **<CLR>** exit to access level 2 menu.

9.9 Walk Test

To activate walk test procedure:

- Press **<8>** to select menu item **[8.Walk Test]**: The walk test settings are displayed.
- Select the walk test time out time.

- Press **<ENTER>** to start walk test procedure (all the detectors of the installation one by one).

9.10 Intellizone Cancel

To cancel intellizone procedure (if activated):

- Press **<9>** to select menu item **|9.Cancel Intellizone|**: The Cancel Intellizone screen is displayed.
- Press **<1>** to cancel intellizone procedure.



For A.L.3 refer to Installation and Operation Manual.

ZONES DESCRIPTION

Zone 1: _____

Zone 2: _____

Zone 3: _____

Zone 4: _____

Zone 5: _____

Zone 6: _____

Zone 7: _____

Zone 8: _____

Zone 9: _____

Zone 10: _____

Zone 11: _____

Zone 12: _____

Zone 13: _____

Zone 14: _____

Zone 15: _____

Zone 16: _____

Zone 17: _____

Zone 18: _____

Zone 19: _____

Zone 20: _____

Zone 21: _____

Zone 22: _____

Zone 23: _____

Zone 24: _____

Zone 25: _____

Zone 26: _____

Zone 27: _____

Zone 28: _____

Zone 29: _____

Zone 30: _____

Zone 31: _____

Zone 32: _____

Zone 33: _____

Zone 34: _____

Zone 35: _____

Zone 36: _____

Zone 37: _____

Zone 38: _____

Zone 39: _____

Zone 40: _____

Zone 41: _____

Zone 42: _____

Zone 43: _____ Zone 58: _____
Zone 44: _____ Zone 59: _____
Zone 45: _____ Zone 60: _____
Zone 46: _____ Zone 61: _____
Zone 47: _____ Zone 62: _____
Zone 48: _____ Zone 63: _____
Zone 49: _____ Zone 64: _____
Zone 50: _____ Zone 65: _____
Zone 51: _____ Zone 66: _____
Zone 52: _____ Zone 67: _____
Zone 53: _____ Zone 68: _____
Zone 54: _____ Zone 69: _____
Zone 55: _____ Zone 70: _____
Zone 56: _____ Zone 71: _____
Zone 57: _____ Zone 72: _____

DEVELOPED BY

PARADOX HELLAS S.A.
fire alarm & security systems
Korinthou 3, Metamorfosi
144 51 - Athens, Greece





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