

## 630F Remote Fire COMMAND Center

### Description

The 630F Remote Fire COMMAND Center is a 20-key remote fire annunciator with a 32-character LCD display that can be either flush or surface mounted. The 630F includes four function keys allowing the user to easily silence, reset, test, and drill XR150/XR550 Series panels. An added 630F feature is a keyswitch that enables and disables the four function keys. In order for the function keys to operate, the factory-installed keyswitch must be enabled. These functions and options can also be accessed through the User Menu if desired. The 630F also provides three LEDs that indicate system status.

### Installation

The 630F can either be flush mounted or surface mounted. The 630F is comprised of three major parts: the backbox (standard or optional surface mount 635), the annunciator membrane backplate, and the trim frame. The backbox should be secured to the wall by following the steps below. Refer to Figure 1 as needed.

#### Surface Mounting the Backbox

The 635 Low-Profile Backbox can be used for surface mount applications.

1. Four 1" screws are needed to attach the backbox to the wall.
2. Screw one screw in each of the four surface mounting holes in the back of the box.

**Note:** The 4-hole pattern in the surface mount backbox also fits a 4" square electrical box. This allows mounting on an electrical box if necessary.

#### Flush Mounting the Backbox

Use the included flush mount backbox as shown in Figure 1.

1. Four 1" screws are needed to attach the backbox to the wall stud.
2. The backbox has four mounting holes on both sides. Using the mounting holes on one side of the backbox, attach the backbox to a stud. As shown in Figure 1, the backbox tab flush-mounts against the stud.

For post-sheetrock installation, the flush mount backbox should be mounted flush against the sheetrock and then attached to the stud behind using the flush mounting holes.

#### Mounting the Annunciator Membrane Backplate

Figure 1 is an exploded mounting illustration showing the three major parts. The dashed lines represent paths for screws. For easier installation, one knockout is provided on each side and the backbox back. Use one of the five knockouts for running wires.

After securely mounting the backbox and running the wires as discussed in the Harness Wirings section, attach the annunciator membrane backplate to the backbox using the four supplied countersunk 3/8" Phillips screws. After securing the mounting plate to the backbox, adjust the mounting plate to the right or left so the LCD display is level. The four slotted screw holes in the mounting plate corners allow for this adjustment.

#### Mounting the Trim Frame

After properly attaching and leveling the mounting plate, attach the trim frame to the mounting plate for a finished look. Attach the trim frame using the four supplied 3/8" black Phillips screws.

### Harness Wiring

Connect the 4 wires from the 630F backplate terminal strip to panel terminals 7, 8, 9, and 10.

### COMMAND Center Operation

**INTERNAL SPEAKER OPERATION**—The speaker emits standard tones for key presses and system alerts. The speaker also provides distinct fire siren tones during an alarm.

**LCD BACKLIGHTING**—lights to maximum brightness anytime a key is pressed or the speaker sounds.

### Programming

In Device Setup programming, FIRE must be selected for the 630F address device number. Selecting FIRE enables the four function keys and the three LEDs to operate. See the XR150/XR550 Programming Guide (LT-1232) for more information on programming devices.

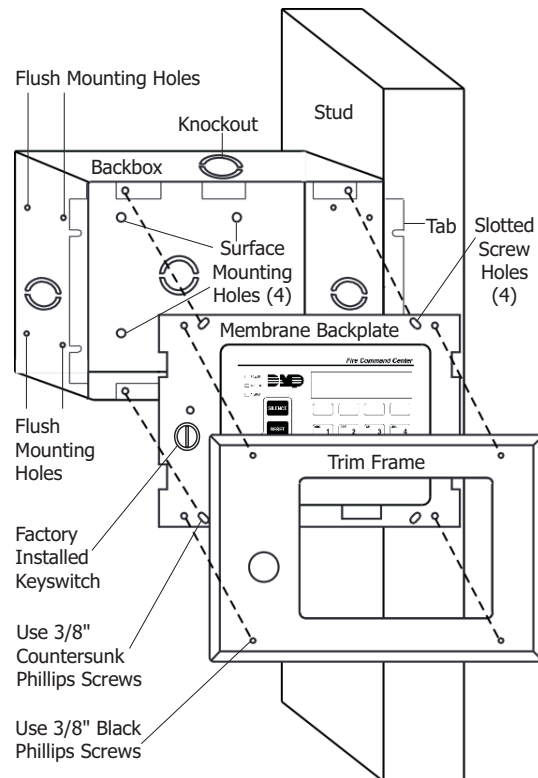


Figure 1: Exploded Mounting Diagram

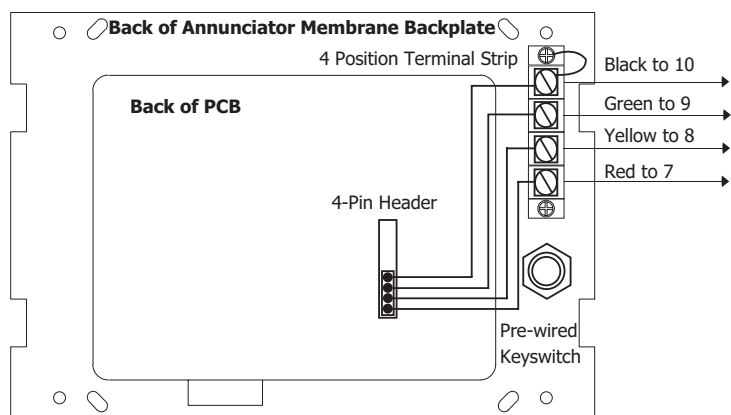


Figure 2: Harness Wiring Diagram



## Four Function Keys

The four function keys allow the user to quickly and easily perform functions on the 630F. The factory installed keyswitch on the left-hand side must be turned to the ENABLE position before the keys activate. The keyswitch does not affect the other keys on the keyboard: They are operational at all times with a user code.

**SILENCE Key**—Press the SILENCE key to silence the main alarm bell and the Fire Bell Output. The SILENCE key does NOT stop an alarm report from being sent to the central station and does not reset any alarmed devices.

**RESET Key**—Press the RESET key to perform a sensor reset. Use the RESET key to reset devices such as smoke detectors that have latched in alarm and clear the display of alarms.

**TEST Key**—Press the TEST key to perform a system test. This key tests the alarm bells, communication to the central station, and the backup battery.

**DRILL Key**—Press the DRILL key to display SURE? YES NO. Press the select key under YES to begin the fire drill, which sounds the main bell and activates the Fire Bell Output. Press the select key under NO to return to the status list. Press SILENCE or enter a user code to silence the alarm bells and end the fire drill.

## Status LEDs

The keyboard provides three LEDs to indicate the system status.

**POWER LED** remains ON steady when both AC and battery input are good. The LED turns OFF when AC input is low. The LED flashes for 1/2 second intervals when battery input is low.

**TROUBLE LED** turns ON when any trouble is displayed in the status list, such as AC, battery, phone line, transmit, NAC, or any zone trouble. This light is OFF when no trouble displays in the status list.

**ALARM LED** is ON when any alarm currently displays in the status list. This LED is OFF when no alarm is currently displayed in the status list.

## 7/0 Panic Keys

The 630F also allows the user to initiate an optional Panic alarm by pressing the 7 and 0 (zero) keys simultaneously for one-half (1/2) second. When enabled, the Fire COMMAND Center annunciator sends a Zone Short message to the panel for the first zone of this keypad address. After two seconds, a Zone Restore message is sent.

## End-User Options

The 630F provides three keypad adjustments that the end-user can make. Below is a description of the options and instructions on their operation. The user can also view the keypad model number and address in User Options.

To access the User Options portion of the keypad, press and hold the Back Arrow and COMMAND keys for two seconds. The keypad display changes to SET BRIGHTNESS. Press the COMMAND key to display the next option or the Back Arrow key to exit the User Options function.

**Note:** The End-User Options function automatically terminates after approximately 20 seconds of no activity.



### Backlighting Brightness

Set the keypad LCD Display brightness level, and the AC LED. Use the left Select key to lower the brightness and the right Select key to raise the brightness. If the brightness level is lowered, it reverts to maximum intensity whenever a key is pressed. If no keys are pressed, and the speaker has not sounded for 30 seconds, the user-selected brightness level restores.



### Internal Speaker Tone

Set the keypad internal speaker tone. At the SET TONE display, use the left Select key to lower the tone and the right Select key to raise the tone.



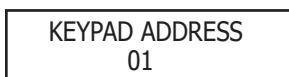
### Internal Volume Level

Set the keypad internal speaker volume level for key presses and entry delay tone conditions. During alarm and trouble conditions, the volume is always at maximum level. Use the left Select key to decrease the keypad volume and the right Select key to increase the volume. Press the COMMAND key to display the Model Number.



### Model Number

The LCD displays the model number, the version and date of the keypad firmware. The user cannot change this information.



### Keypad Address

The LCD displays the current keypad address. While in User Options, the user cannot change the keypad address. Press the Back Arrow key to exit the User Options function.

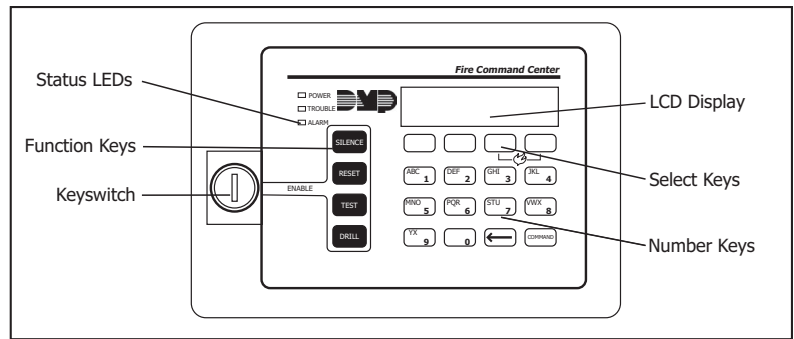


Figure 3: 630F Fire Command Center

## Entering Alpha Characters

Use the keypad to enter alpha characters. To enter an alpha character, press the key that has the desired letter written below it. The keypad display shows the number on that key. To change the number to a letter, press the top row Select key that corresponds to the letter location under the key. For example, pressing key number 1, the letters for that key are A, B, and C. Press the first Select key for A, the second Select key for B, and the third Select key for C. See Figure 4.

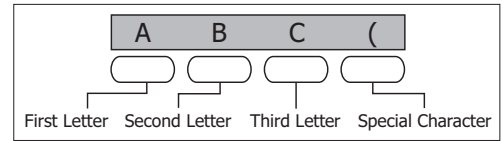


Figure 4: Entering Alpha Characters

## Entering Non-Alphanumeric Characters

When in the Installer Options Menu, each key also has a special, non-alpha character to use. These characters are not shown on the keypad. Enter a space by pressing 9 then the third Select key. The special characters available are as follows starting with the 1 digit key to the 9 digit key: ( ) ! ? / & \$ , ' and - . \* # for the 0 key.

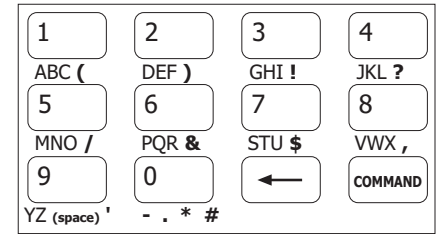


Figure 5: Keys with Non-Alpha Characters

## Installer Options Menu

The 630F also contains Keypad Options and Keypad Diagnostics programs that allow configuration and testing keypad operation.

### Access the User Menu

The Installer Options Menu is accessed through the User Options function. After holding down the Back Arrow and COMMAND keys for a few seconds, when the SET BRIGHTNESS option displays, enter the code 3577 (INST) then press COMMAND. The display changes to KPD OPT (keypad options) KPD DIAG (keypad diagnostics) and STOP.

The keypad options menu allows the user to set the keypad address, select supervised or unsupervised, change the default keypad message, individually arm the 2-button Panic keys, and select Soft-Shunt, Request-to-Exit, and 4-digit entry cards.

**Note:** The Installer Options function automatically terminates after approximately two minutes of no activity.

### Programming Keypad Options

KPD	KPD	
OPT	DIAG	STOP

#### Keypad Options (KPD OPT)

To program keypad options, press the left Select key under KPD OPT. The display changes to CURRENT KEYPAD ADDRESS: # #.

CURRENT KEYPAD ADDRESS:	01
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#### Keypad Address

Set the keypad address from 01 to 08 on XR150 Series panels, and 01 to 16 on XR550 Series panels. The factory default address is set at 01. To change the current address, press any Select key and then enter the new address using the appropriate number keys on the keyboard. It is not necessary to enter a leading zero for addresses 01 to 09.

KEYPAD MODE:	
*SUP	UNSUP

#### Keypad Mode

Configure the keypad for either supervised or unsupervised operation. Supervised keypads cannot share addresses with other keypads. To enhance the supervision feature, assign an output to the Device Fail Output in panel programming and connect a device to the corresponding output that trips when the keypad fails. This provides notification at the central station and the site. The other keypads do not display the device fail.

Unsupervised keypads can operate with other unsupervised keypads sharing the same address. Zones cannot be used on unsupervised keypads. To change the current setting, press the Select key under SUP or UNSUP. An asterisk appears next to the selected option.

**Note:** Unsupervised addresses cannot be used when a Device Fail Output is programmed in Output Options.

DEFAULT KEYPAD MSG:	
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#### Default Keypad Message

Enter a custom message of up to 16 characters to appear on the keypad display top line whenever that line is not used for any other purpose. Press any Select key to clear the current display and use the data entry keys to enter a new custom display.

ARM PANIC KEYS:			
*PN	*EM	*F1	

#### Arm Panic Keys

Use this option to configure the top row Select keys as 2-button Panic keys. To enable or disable a Panic, press the Select key under the appropriate display: PN (Panic), EM (Emergency), and FI (Fire). Once the panic is enabled, an asterisk displays next to the description.

7/0 PANIC ENABLE:	NO	YES
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#### 7/0 Panic

Use this option to configure the 7 and 0 keys as a 2-button Panic feature. To enable the 7/0 Panic, select YES. To disable the option, select NO. Default is NO. In a panic situation simply press and hold the 7 and 0 keys for one-half (1/2) second. Refer to the 7/0 Panic Keys section earlier in this document.

ACTIVATE ZONE 2 SHUNT:	NO	YES
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#### Zone 2 Shunt (Display only)

This feature does not operate on the 630F keypad.

ACTIVATE ZONE 3 EXIT:	NO	YES
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#### Zone 3 Exit (Display only)

This feature does not operate on the 630F keypad.

4 DIGIT ENTRY CARDS:	<b>NO</b>	YES
ALL?:	<b>NO</b>	YES
DELAY:	2	

### Entry Cards (Display only)

This feature does not operate on the 630F keypad.

### Arming/Disarming Wait Time (Display only)

This feature does not operate on the 630F keypad.

## Accessing Keypad Diagnostics

If necessary, refer to Access the User Menu on the previous page.

KPD	KPD	
OPT	DIAG	STOP

### Keypad Diagnostics (KPD DIAG)

The Keypad Diagnostic option allows the user to check the display segments, check the keyboard backlighting, and test individual keys.

Press the Select key under KPD DIAG. The keypad lights all display segments and illuminates the keyboard in green. A few seconds later the keypad turns the display off and illuminates the keyboard in red. The keypad then alternates between these two states. Press COMMAND at any time to continue.

PRESS KEY TO TEST
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### Test Individual Keys

The display changes to PRESS KEY TO TEST. This option allows the user to test each key on the keyboard to ensure it is operating properly. Press and hold each key for about two seconds. The key number being held appears in the display. Verify the correct number displays before testing the next key.

Z1 OPEN	Z2 OPEN
Z3 OPEN	Z4 OPEN

### Zone Test (Display only)

This feature does not operate on the 630F keypad.

INPUT WIEGAND
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### Input Wiegand (Display only)

This feature does not operate on the 630F keypad.

## Exiting the Installer Options


When done, press the COMMAND key once to return to the Installer Options screen. Press the Select key under STOP to exit the Installer Options function.

## Wiring Specifications for Keypad Bus

When planning a keypad bus installation, keep in mind the following four specifications:

1. DMP recommends using 18 or 22-gauge **unshielded** wire for all keypad and LX-Bus circuits. **Do Not** use twisted pair or shielded wire for LX-Bus and keypad bus data circuits. To maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 feet. When using 18-gauge wire do not exceed 1,000 feet.
2. Maximum distance for any one circuit (length of wire) is 2,500 feet regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 2,500 feet. As wire distance from the panel increases, DC voltage on the wire decreases.
3. Maximum number of devices per 2,500 feet circuit is 40.  
**Note:** Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the panel installation guide for the specific number of supervised keypads allowed.
4. Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2.0VDC. If the voltage at any device is less than the required level, add a regulated, power limited auxiliary power supply listed for Fire Protective Signaling at the end of the circuit. When voltage is too low, the devices cannot operate properly.

For additional information refer to the 710 Installation Sheet (LT-0310) and or the LX-Bus/Keypad Bus Wiring Application Note (LT-2031).

<h3>630F Specifications</h3> <p>Current Draw</p> <table> <tr> <td>Operating Voltage</td> <td>8.5VDC to 14.0VDC</td> </tr> <tr> <td>Normal Standby</td> <td>63mA</td> </tr> <tr> <td>Alarm</td> <td>92mA</td> </tr> </table> <p>Dimensions</p> <table> <tr> <td>Trim Frame</td> <td>7.0" H x 10.4" W x 1.7" D</td> </tr> <tr> <td>Backbox - Standard Flush Mount</td> <td>6.375" H x 8.75" W x 2.5" D</td> </tr> <tr> <td>Backbox - Optional Model 635 Surface Mount</td> <td>6.88" H x 10.25" W x 1.74" D</td> </tr> </table> <h3>Panel Compatibility</h3> <p>XR150/XR550 Series Panels</p>	Operating Voltage	8.5VDC to 14.0VDC	Normal Standby	63mA	Alarm	92mA	Trim Frame	7.0" H x 10.4" W x 1.7" D	Backbox - Standard Flush Mount	6.375" H x 8.75" W x 2.5" D	Backbox - Optional Model 635 Surface Mount	6.88" H x 10.25" W x 1.74" D	<h3>Certifications</h3> <p>California State Fire Marshal (CSFM)  FCC Part 15  New York City (FDNY COA #6167)  ANSI/UL 294 Access Control  ANSI/UL 609 Local Burglar  ANSI/UL 864 Fire Protective Signaling  ANSI/UL 985 Household Fire Warning  ANSI/UL 1023 Household Burglar  ANSI/UL 1076 Proprietary Burglar  ANSI/UL 1610 Central Station  ULC-S559-04 Equipment for Fire Signal Receiving Centers and Systems</p>
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