

630F Remote Fire Command Center

INSTALLATION AND PROGRAMMING GUIDE

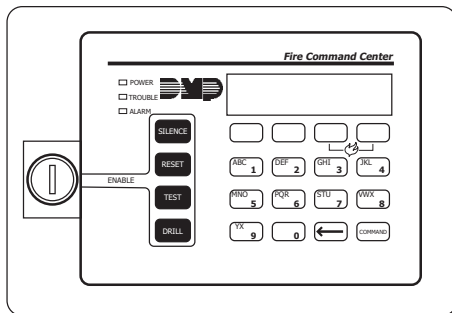


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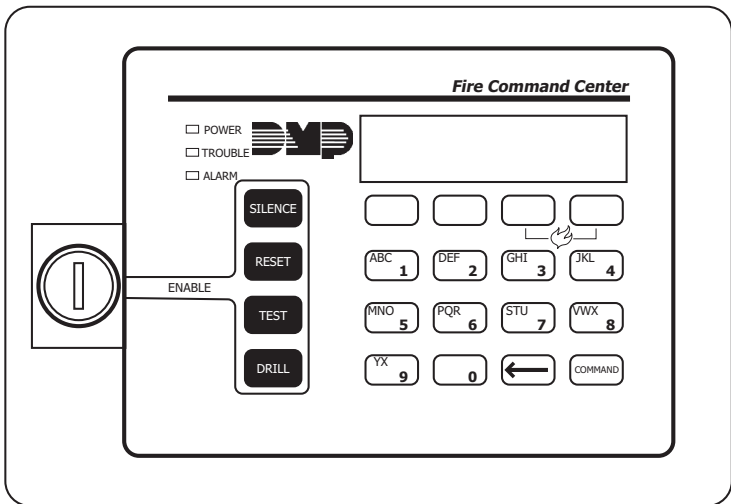


Figure 1: 630F Remote Fire Command Center

ABOUT THE 630F

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.

Four Function Keys

The 630F includes four function keys allowing the user to easily silence, reset, test, and fire drill XR150/XR550 Series panels.

Status LEDs

The 630F provides three LEDs that indicate system status.

Keyswitch

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.

INSTALL THE 630F

1 *Mount the Backbox*

The 630F can either be surface mounted or flush mounted to the wall. The 630F is comprised of three major parts: the backbox (standard or optional surface mount 635), the annunciator membrane backplate, and the trim frame. Refer to Figure 2 as needed.

Flush Mount the Backbox

Use four 1" screws and the mounting holes on one side of the flush mount backbox to attach the backbox to a stud. The backbox tab flush-mounts against the stud. See Figure 2.

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.

Surface Mount the Backbox

The optional 635 Low-Profile Backbox can be used for surface mount applications. Use four 1" screws to attach the backbox to the wall and 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 to allow mounting on an electrical box.

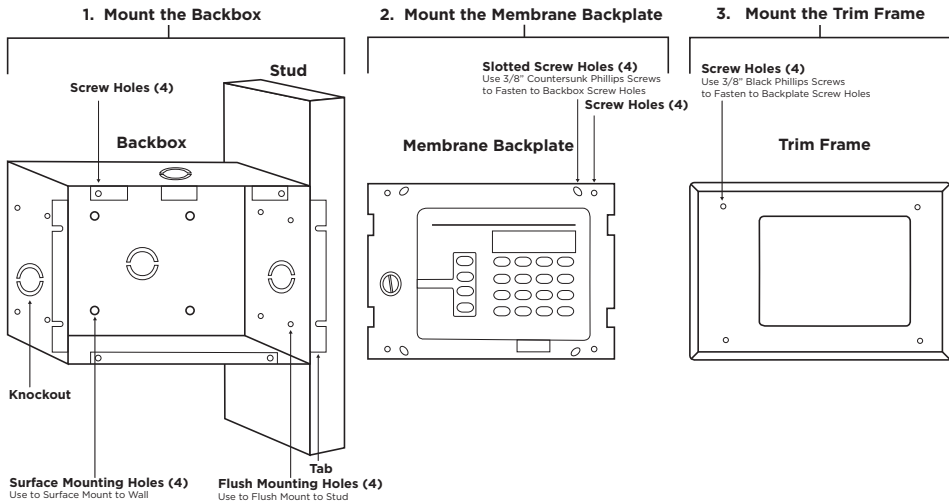


Figure 2: Mounting Diagram

2 *Mount and Wire the Membrane Backplate*

Refer to Figure 2 for locations of knockouts on backbox for running wires and screw holes on backbox and backplate.

1. Connect a four conductor wire from the 630F backplate terminal strip to panel terminals 7, 8, 9, and 10. See Figure 3.
2. Attach the annunciator membrane backplate (slotted screw holes) to the backbox using the four supplied countersunk 3/8" Phillips screws.
3. 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.

3 *Mount the Trim Frame*

Attach the trim frame to the mounting plate using the four supplied 3/8" black Phillips screws. See Figure 2.

Back of Membrane Backplate

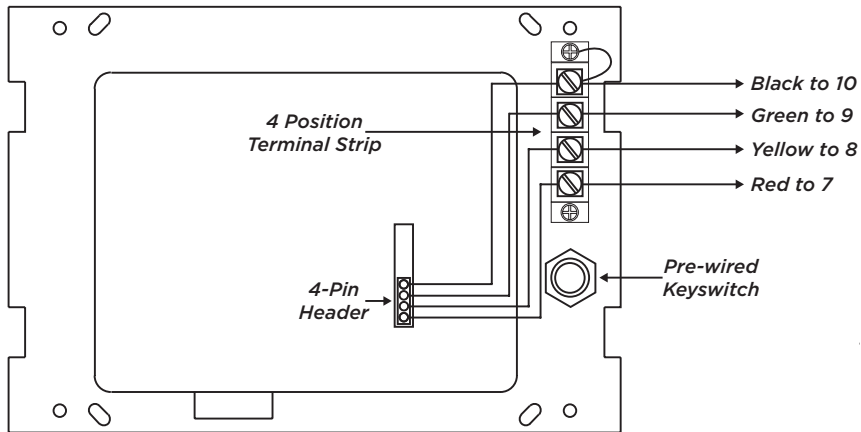


Figure 3: Harness Wiring Diagram

COMMAND CENTER OPERATION

Command Center Operation

- **INTERNAL SPEAKER OPERATION**—The speaker emits standard tones for key presses and system alerts and distinct fire siren tones during an alarm.
- **LCD BACKLIGHTING**—lights to maximum brightness anytime a key is pressed or the speaker sounds.

Programming

After completing each of the following steps, press **CMD** to advance to the next option.

PROGRAMMER

Programming

Reset the panel and enter **6653** (PROG) at a keypad.

DEVICE SETUP

Device Setup

Go to **DEVICE SETUP**.

DEVICE SETUP
DEVICE NO: -

Device Number

At **DEVICE NO**, enter a device number.

For Keypad Bus connections, select a device number from 1-8 for XR150 panels or 1-16 for XR550 panels.

DEVICE SETUP
* UNUSED *

Device Name

At ***UNUSED***, enter the device name.

DEVICE SETUP
DOOR KPD **FI** EXP

Device Type

At **TYPE**, select **FI** (Fire).

STOP

Stop

Press **CMD** until **STOP** displays. Press a top row select key or area to save programming.

If necessary, see the [XR150/XR550 Programming Guide \(LT-1232\)](#) for more information on programming devices.

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.

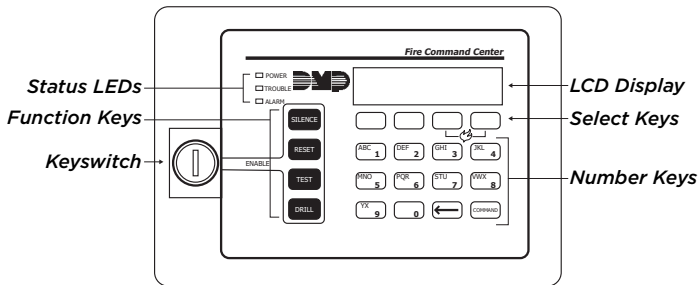


Figure 4: 630F Fire Command Center

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.

SET VOLUME LEVEL



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

630F V300 21105

Model Number

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

KEYPAD ADDRESS

01

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.

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 5.

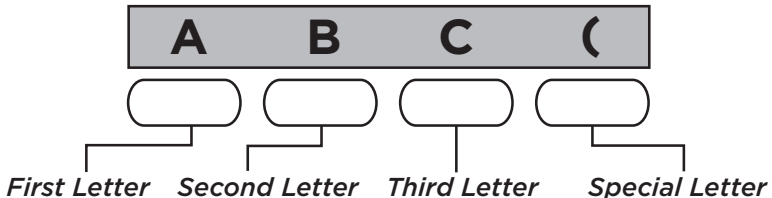


Figure 5: Entering Alpha Characters

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** to the **9** keys **()! ? / & \$, ' and - . * #** for the **0** key. See Figure 6.

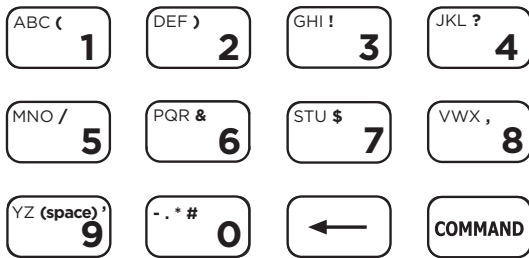


Figure 6: Keys with Non-Alpha Characters

INSTALLER OPTIONS MENU

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

Access the User Menu

Hold 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**.



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

Keypad Address

Set the keypad address from 01 to 08 on XR150 Series panels, and 01 to 16 on XR550 Series panels. 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. The factory default address is set at **01**.

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

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.

STOP

Stop

Press **CMD** until you reach the end of the menu, then select **STOP** to save the new settings.

Access Keypad Diagnostics

Refer for Access the User Menu as necessary. The Keypad Diagnostic option allows the user to check the display segments, check the keyboard backlighting, and test individual keys.

KPD	KPD
OPT	DIAG STOP

Keypad Diagnostics (KPD OPT)

Press the Select key under **KPD DIAG**. The keypad lights all display segments and illuminates the keyboard. Press **COMMAND** at any time to continue.

PRESS KEY TO TEST

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 each key and the key number appears in the display. Verify the correct number displays before testing the next key.

STOP

Stop


Press **CMD** until you reach the end of the menu, then select **STOP** to save the new settings.

Exit 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.

KEYPAD BUS WIRING SPECIFICATIONS

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 2.0 VDC. 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).

630F SPECIFICATIONS

Current Draw

Operating Voltage	8.5 VDC to 14.0 VDC
Normal Standby	63 mA
Alarm	92 mA

Dimensions

Trim Frame	7.0" H x 10.4" W x 1.7" D 17.8 cm H x 26.4 cm W x 4.3 cm D
Annunciator Membrane Backplate	6.4" H x 8.8" W 16.2 cm H x 22.4 cm W
Backbox – Standard Flush Mount	6.4" H x 8.8" W x 2.5" D 16.2 cm H x 22.4 cm W x 6.4 cm D
Backbox – Optional Model 635 Surface Mount	6.9" H x 10.3" W x 1.7" D 17.5 cm H x 26.2 cm W x 4.3 cm D

COMPATIBILITY

XR150/XR550 Series Panels

CERTIFICATIONS

California State Fire Marshal (CSFM)

FCC Part 15

New York City (FDNY COA #6167)

Underwriters Laboratory (UL Listed)

ANSI/UL 365	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

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This information is subject to change without notice.

