630F Remote Fire Command Center

Description

The Model 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 that allow the user to easily silence, reset, test, and drill the XR2400F system or the XR200 with 106 firmware or higher. Another added feature of the 630F 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 turned on. The other 16 keys can be used to silence or reset the system at any time using a user code. The Model 630F Remote Fire Command Center also provides three LEDs that indicate the status of the system.

Installation

The Model 630F Remote Fire Command Center can be either flush mounted or surface mounted. The 630F is comprised of three major parts: The backbox, the annunciator membrane backplate, and the trim frame. The backbox should be secured to the wall following the steps below.

Surface Mounting the Backbox

1. You will need four 1" screws to attach the backbox to the wall.
2. Screw in one screw in each of the four surface mounting holes in the back of the box. See Figure 1.

Note: The 4-hole pattern in the back of the backbox fits a 4" square electrical box. This allows mounting to an electrical box if necessary.

Flush Mounting the Backbox

1. You will need four 1" screws to attach the backbox to the wall stud.
2. The backbox has four mounting holes on both sides. Using mounting holes on one side of the backbox, attach the backbox to a stud. As shown in Figure 1, the backbox tab is flush mounted against the stud.

For post-sheetrock installation, the 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

Refer to Figure 1 for an exploded illustration of mounting the three major parts. The dashed lines represent paths for screws. For easier installation, one knockout has been provided on each of the five surfaces of the backbox. Use one of the five knockouts for running wires.

After securely mounting the backbox and running the wires (see **Harness Wiring**), attach the annunciator membrane backplate to the backbox using the four supplied countersunk 3/8" Phillips screws. See Figure 1. After securing the mounting plate to the backbox, the mounting plate can be adjusted right and left so the LCD display is level. The four slotted screw holes in the corners of the mounting plate allow for this adjustment. See Figure 1.

Mounting the Trim Frame

After the mounting plate is properly attached and leveled, attach the trim frame to the mounting plate for a finished look. The trim frame is attached using the four supplied 3/8" black Phillips screws. See Figure 1.
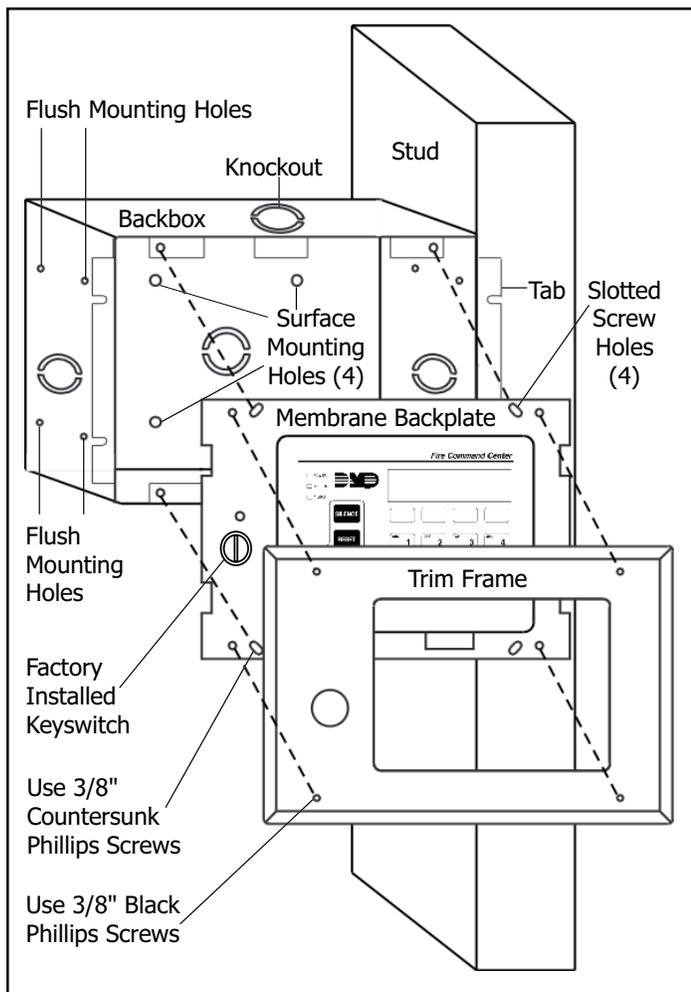

Figure 1: Exploded Mounting Diagram

Harness Wiring

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

Wiring Specifications

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

1. You can install **individual keypads** on wire runs of up to 500 feet using 22 gauge wire or up to 1,000 feet using 18 gauge wire. To increase the wire length or add additional devices, a power supply is required.

2. **Maximum distance** for any one keypad bus circuit (length of wire) is 2,500 feet regardless of the gauge of wire. 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.

3. **Maximum number of devices** per 2,500 feet circuit is 40. **(Not**e: Each panel allows a specific number of supervised keypads. Additional keypads can be added in the unsupervised mode. Refer to the panel's installation guide for the specific number of supervised keypads that are 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, an auxiliary power supply should be added at the end of the circuit.

Refer to the 710 Module Installation Sheet (LT-0310) for more information. Also see the LX-Bus/Keypad Bus Wiring Application Note (LT-2031).

Figure 2: Harness Wiring Diagram

Internal Speaker Operation

The 630F speaker emits standard tones for key presses and system alerts. When used with the XR2400F Addressable Fire Alarm Control Panel or the XR200, the speaker also provides distinct fire siren tones at alarm.

LCD Backlighting

The LCD backlight lights to maximum brightness anytime a key is pressed or the speaker sounds.

Programming

During Device Setup programming of the XR2400F, the XR200 (106 firmware or higher), or XR200-485 (XXX firmware or higher), FIRE must be selected for the device number of this Command Center Address. Selecting FIRE enables the operation of the four function keys and the three LEDs. See the XR200/XR2400F programming guide (LT-0196) 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 of the Remote Fire Command Center must be turned to the ENABLE position before the keys are activated. 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 alarm bells. 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 perform a sensor reset and silences the alarm bells. 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. 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.
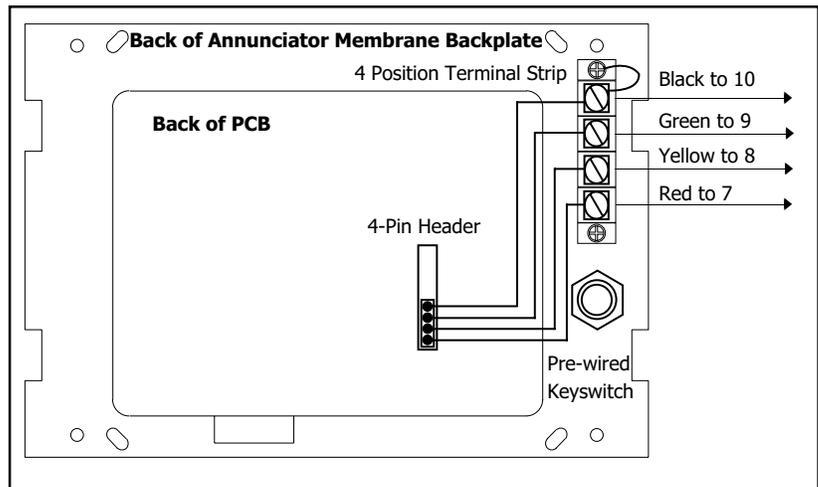
Status LEDs

The keyboard provides three LEDs to indicate the status of the system.

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 is displayed in the status list.

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

End-User Options

The 630F Remote Fire Command Center provides three adjustments that can be made by the end-user. To access **User Options**, press and hold the Back Arrow and COMMAND keys for two seconds. The display changes to **SET BRIGHTNESS**. Press COMMAND to scroll through the End-User Options.

Brightness—This option allows the user to set the brightness level of the Liquid Crystal Display (LCD) and the POWER LED. At the **SET BRIGHTNESS** display, use the left Select key to lower the LCD display and LED brightness. Use the right Select key to increase the brightness.

NOTE: If the brightness level is lowered, it will temporarily revert back to maximum intensity whenever a key is pressed. If no keys have been pressed, and the speaker has not sounded for 30 seconds, the user-selected brightness level is restored.

Internal speaker tone—This option allows the user to set the tone of the 630F's internal speaker. At the **SET TONE** display, use the top left Select key to make the tone lower. Use the right Select key to make the tone higher.

Volume level—This option allows the user to set the volume level of the internal speaker for key presses. During alarm, trouble, and prewarn conditions, the volume is always at maximum level. At the **SET VOLUME LEVEL** display, use the top left Select key to lower the volume. Use the right Select key to raise the volume.

Panel Model Number—This option displays the Command Center's model number and firmware version.

Address Display—This option displays the current address of the 630F. The address cannot be changed from this display. Press the Back Arrow key to exit the **User Options** function.

Installer Options

The 630F Remote Fire Command Center also contains **Options** and **Diagnostic** programs that allow you to configure and test the Command Center operation.

You can only access the **Installer Options** function through the User Options function. After holding down the Back Arrow and COMMAND keys for two seconds and getting the **SET BRIGHTNESS** display, enter the code 3577 (INST) and press COMMAND. The display now changes to **KPD OPT** (keypad options) **KPD DIAG** (keypad diagnostics) and **STOP**.

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

Set the Command Center address
You can set the Remote Fire Command Center address from 01 to 16. The factory default address is set at 01. To change the current address, press any Select key to delete the old address and then press the appropriate number keys on the keyboard. It's not necessary to enter a leading zero for addresses 01 to 09.
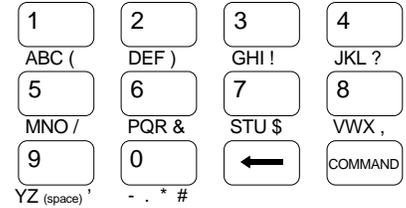
Select Supervised or Unsupervised Mode
You can configure the Remote Fire Command Center for either supervised or unsupervised operation. Supervised Command Centers cannot share addresses with other Command Centers. Unsupervised Command Centers *can* operate with other unsupervised Command Centers sharing the same address. To change the current setting, press the Select key under **SUP** or **UNSUP.** An asterisk appears next to the selected option. **Note:** If any keypad addressed device is unsupervised, then the Device Fail Output cannot be used.

Change the Default Command Center Message
You can enter a custom message of up to 16 characters that appears on the top line of the display whenever that line is not being 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.

Entering Apha and Special Characters

To enter an alpha character, press the data entry key with the proper letter written below the key. The keypad displays the number digit of the key. Next, press the Select key that corresponds to the location of the letter under the key. Each key also has a special, non-alpha character you may use. Press the far right select key to use the special characters. The special characters available are as shown to the right. For example if you pressed the 1 key, you could select A, B, C, or (. Press the far left key to select A, the middle left key to select B, the middle right key to select C, and the far right key to select (. When you press another digit key, the last letter displayed is retained and you may repeat the process.

1 ABC (	2 DEF)	3 GHI !	4 JKL ?
5 MNO /	6 PQR &	7 STU $	8 VWX ,
9 YZ (space) '	0 - . * #	←	COMMAND

2-Button Panic Keys

This option allows you to enable or disable the top row of Select keys as 2-button Panic keys. The two-button residential panic keys are generally not used in commercial fire applications and are not applicable for the 630F. They are available to the user, but are intended for the 690, 790, 791, and 793 keypads. This option's factory default is set to NO 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 appears next to the description.

The user must press and hold the two Select keys for two seconds until a beep from the Remote Fire Command Center is heard. At the beep, the panel sends an alarm report to the central station with the following zone numbers: 19 = **Panic**, 29 = non-medical **Emergency**, and 39 = **Fire.**

Zone 2 Soft-Shunt™

This option is intended for DMP 791 and 793 Easy Entry™ Keypads. Leave the option set to NO.

Zone 3 Request to Exit

This option is intended for DMP 791 and 793 Easy Entry™ Keypads. Leave the option set to NO.

4-Digit Entry Cards

This option is intended for DMP 791 and 793 Easy Entry™ Keypads. Leave the option set to NO.

ALL? NO YES DELAY: 2

This option is intended for DMP 791 and 793 Easy Entry™ Keypads. Select the number of seconds the keypad should wait when an area system displays **ALL? NO YES** during *arming/disarming* or a **HOME/SLEEP/AWAY** system waits during *arming only*. If **NO** or **YES,** or **HOME** or **AWAY**, is not pressed before the delay expires, the keypad automatically selects the **YES** or the **AWAY** key. Select zero (0) for no delay. The delay can be one to nine (1-9) seconds.

Command Center Diagnostics (KPD DIAG)

This option allows you to check the LCD display segments and test individual keys on the keypad. Press the Select key under **KPD DIAG**. The 630F lights all segments of the display. A few seconds later the 630F turns off the display. The display then alternates between these two states for approximately two minutes.

Press COMMAND at any time to continue. The display changes to **PRESS KEY TO TEST**. This option allows you to test each key on the keyboard to ensure it's operating properly. Press and hold each key for about two seconds. The number of the key being held appears in the display. Verify it's the correct number before testing the next key.

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.

630F SPECIFICATIONS		PANEL COMPATIBILITY
Operating Voltage	8.5 to 15 VDC	XR200, XR2400F, and XR200-485
Current Draw	100mA	
Dimensions		
Trim Frame	10.4" W x 7.0" H x 1.7" D	
Backbox	8.75" W x 6.375" H x 2.5" D	

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