

# **DMP LT-2780 Fire Command Keypad Instruction Manual**

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INSTALLATION AND PROGRAMMING GUIDE 7830F
Fire Command Keypad



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## **GET STARTED**

The 7830F Fire Command Keypad offers an easy to use touchscreen interface, a LED indicator, an internal speaker, a simple terminal connection to a 4-wire keypad bus, and other features. Keypads can be mounted on a backbox or a flat surface with appropriate fasteners.

#### What's Included

- ▶ One 7830F Fire Command Keypad
- ► Four screws (#6 x 1")

## What You'll Need

- ► 5/64" (2.0mm) drill bit
- ▶ #2 Phillips screwdriver

#### **Procedure**

This guide walks you through the required steps needed to install a 7830F keypad. They are:

- 1. Install the keypad.
- 2. Program the panel.
- 3. Program the keypad.

#### **INSTALL THE KEYPAD**

#### 1. Remove the Cover

To see how to remove the cover, watch the video How to Open a Touchscreen Keypad.

The keypad housing is made up of two parts: The cover, which contains the circuit board with components, and the base. When removing the cover, refer to Figure 1.

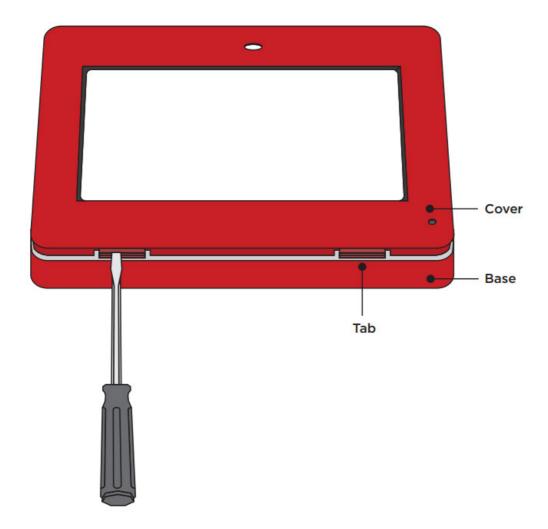


Figure 1: Removing the Cover

To separate the keypad cover from the base, insert the flat tip of a slotted screwdriver into one of the slots on the bottom of the keypad, then press in slightly to disengage the tab and pry open. Repeat with the other slot. Remove the cover from the base and set aside.

# 2. Run Wire

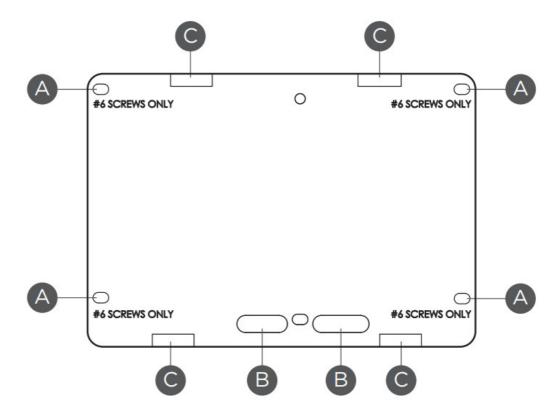
Run wire from the power source to the keypad mounting location. See the Keypad Bus Wiring Specifications section on page 10 for maximum wire runs.

А	Mounting holes
В	Wiring cutouts
С	Cover latches

# 3. Mount the Keypad

All DMP keypad housings are designed to install on any 4" square box, 3-gang switch box, compatible backboxes, or directly on a flat surface.

1. Route the keypad wires through the cutouts in the base. See Figure 2.



**Figure 2: Mounting Hole Locations** 

- 2. Use the keypad base to mark the holes for the screws on the mounting surface.
- 3. Set the base aside and drill the holes.
- 4. Use the included screws to secure the keypad base to the surface. Do not overtighten.
- 5. When all wire connections have been completed, place the keypad cover back onto the base and snap it into place.

## 4. Wire the Keypad

To wire the keypad, make the connections shown in Figure 3.

Caution: Disconnect all power before wiring. Failure to do so may result in equipment damage or injury.

Observe polarity when making power connections.

- 1. Connect the harness to the keypad header.
- 2. Connect the red wire to panel terminal 7.
- 3. Connect the yellow wire to panel terminal 8.
- 4. Connect the green wire to panel terminal 9.
- 5. Connect the black wire to panel terminal 10.

WIRE COLOR	PURPOSE
Black	Ground from Panel*
Green	Receive Data from Panel*
Yellow	Send Data to Panel*
Red	Power from Panel*

<sup>\*</sup>Required connections

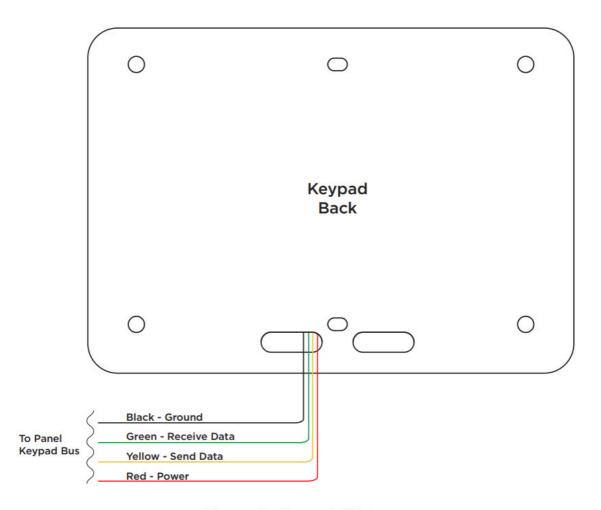


Figure 3: Keypad Wiring

## **USE THE KEYPAD**

# **Keypad Layout**



Figure 4: Keypad Layout

# **Carousel Menu**

The carousel menu options allow the user to quickly and easily perform functions on the 7830F Fire Command Keypad.

These options are operational at all times with a user code.

- SILENCE Press SILENCE to silence the main alarm bell and the Fire Bell Output. This does not stop an alarm report from being sent to the Central Station and does not reset any alarmed devices.
- RESET Press RESET to perform a sensor reset. This resets devices such as smoke detectors that have latched in alarm and clear the display of alarms.
- DRILL Press DRILL to display SURE? YES NO. Press YES to begin the fire drill, which sounds the main bell
  and activates the Fire Bell Output. Press NO to return to the status list. Press SILENCE or enter a user code to
  silence the alarm bells and end the fire drill.
- EVENTS Press EVENTS to display previous panel events. This will show when the panel has been in alarm or silenced.
- KEYPAD Press KEYPAD to access the programmer menu. This menu allows you change the device information in the panel.
- OPTIONS Press OPTIONS to access the keypad options menu. This menu allows you to change the brightness, tone, and volume of the keypad.
- TEST Press TEST to perform a system test. This tests the alarm bells, communication to the Central Station, and the backup battery.
- USER CODES Press USER CODES to access the user menu. This will allow you to add new users to the panel.

#### Status LED Indicator

The 7830F Fire Command Keypad provides three LED indicators states to display the system status.

LED Indicator	System Status
No LED	No alarms or troubles (default)
Solid red LED	In alarm
Flashing red LED	Silenced

#### PROGRAM THE PANEL

Before continuing with programming and setup, you'll program the keypad in the panel as a device.

To access the Programmer menu, reset the panel, press Keypad in the carousel menu, enter 6653 (PROG), then press CMD.

After completing each of the following steps, press CMD to advance to the next option. Refer to the panel programming guide as needed.

## **DEVICE SETUP**

Advance to Device Setup, then press a select area to enter the setup menu.

#### **Device Number**

Enter a device number.

Panel Models	Compatible Device Numbers
XF6-100	1 – 8
XF6-500	1 – 16

Enter a name for the device.

## **Device Type**

Select FI (Fire).

#### Stop

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

#### PROGRAM THE KEYPAD

Refer to the appropriate panel programming guide as needed. To access the Keypad Options menu, press Options in the carousel menu. Press the Installer Options wrench icon, enter 3577 (INST), then press CMD.

#### **KEYPAD OPTIONS**

To program keypad options, press the select area under KPD OPT.

# **Current Keypad Address**

Set the current keypad address from 1 to 8 for XF6-100 Series panels or 1 to 16 for XF6-500 Series panels. The default address is set at 01. To change the current address, press any select area to clear the keypad display, enter the new address, and press CMD. It's not necessary to enter a leading zero for addresses 1 to 9.

## **Keypad Mode**

Keypads with programmed zones must be supervised and cannot share an address with other keypads. Unsupervised keypads can operate together sharing the same address and cannot be used when Device Fail Output has a programmed value other than zero. To select a keypad mode, press the select area for SUP or UNSUP. An asterisk appears next to the selected option. Press again to deselect that option.

## **Default Keypad Message**

Enter a custom message of up to 16 characters to appear at the top of the keypad display. Press any select area, enter a new message, and press CMD.

#### **Dealer Logo**

Use this option to add a custom dealer logo to the main screen of the keypad. Prior to selecting ADD, insert a microSD card containing the logo file into the slot on the right side of the keypad. Select ADD to upload the file to the keypad.

Adding Logo Sure? The keypad will display ADDING LOGO SURE?. Select YES to proceed. While the logo is being uploaded, the keypad displays ADDING LOGO.

ADDING LOGO COMPLETED displays to confirm a successful upload.

#### **Dealer Info**

Select ADD at the DEALER INFO prompt to include information about the dealer when the logo is pressed. The keypad displays ADDING INFO SURE? to confirm the selection.

#### Press YES to proceed.

Adding Info Sure? While the information is being uploaded to the keypad, the keypad displays ADDING INFO. ADDING INFO COMPLETED displays to confirm a successful upload. Press and release the microSD card to eject.

#### Stop

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

## **ADDITIONAL PROGRAMMING**

## **Access the User Menu**

- 1. In the carousel menu, select Keypad.
- 2. Tap CMD to advance to MENU? NO YES. Tap YES.
- 3. Enter your user code, then tap CMD.
- 4. Tap CMD to advance through the menu items. To enter a menu, tap any select area.

# **User Menu**

# **Backlighting Brightness**

Set the keypad display brightness level. Use the left select area to lower the brightness and the right select area 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 area to lower the tone and the right select area 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 area to decrease the keypad volume and the right select area to increase the volume.

#### **Model Number**

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

## **Keypad Address**

The keypad 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.

## Update the Keypad

To see how to update a touchscreen keypad, watch the video **Updating a Touchscreen Keypad**.

- 1. Go to **DMP.com/Software Downloads**.
- 2. Select the latest software update.
- 3. Click Download and enter Your Name, Your Company, and Email information.
- 4. After the .zip download is complete, unzip the files and save them all to the root directory of a FAT32 format microSD card.
- 5. Insert the microSD card into the microSD card slot on the right side of the keypad.
- 6. Press Options in the carousel menu and press Installer Options or the wrench icon.
- 7. Enter 3577 (INST) at the keypad and select KPD OPT.
- 8. Press CMD until Restart Keypad displays.
- 9. Press Restart. Do not remove the microSD card or disrupt power.
- 10. When the keypad is finished restarting and returns to the home screen, remove the microSD card.

# **REFERENCE**

#### **Keypad Bus Wiring Specifications**

- 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.
- Maximum distance for any one bus circuit (length of wire) is 2,500 ft 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
  ft. As wire distance from the panel increases, DC voltage on the wire decreases. Maximum number of LX-Bus
  devices per 2,500 ft circuit is 40.
  - Note: Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode.
- Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2 VDC. If the voltage at
  any device is less than the required level, add an auxiliary power supply at the end of the circuit. When voltage
  is too low, the devices cannot operate properly.
  - Note: For listed installations, do not exceed 8 Ohms of line impedance.

For additional information refer to the panel's Installation Guide or the 710 Installation Sheet (LT-0310).

## Compatibility

► XF6 Series Panels

# **Ordering Information**

## **Keypads**

7830F-R Fire Command Keypad	
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### **Accessories**

## Wiring Harnesses

300-7830-4	Replacement 4-Wire Harness
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#### **Backboxes**

695-7800-SFC-R Surface Mount Backbox (Red)	
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#### **SPECIFICATIONS**

#### **Current Draw**

Operating Voltage	12 VDC
Standby Current	84 mA
Alarm Current	108 mA

## **Dimensions**

Keypad 5.8" W x 4.135" H x 0.6" D
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## **CERTIFICATIONS**

## ► FCC Part 15

# **Underwriters Laboratory (UL) Listed**

ANSI/UL 864	Fire Protective Signaling
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## **FCC Information**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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## **Documents / Resources**



**DMP LT-2780 Fire Command Keypad** [pdf] Instruction Manual

LT-2780 Fire Command Keypad, LT-2780, Fire Command Keypad, Command Keypad, Keypad

#### References

- <u>DMP.com | Welcome to Digital Monitoring Products</u>
- Product Software Downloads | DMP.com
- User Manual

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