

780 Keypad Demonstrator Module

Description

The DMP 780 Keypad Demonstrator Module is a portable module that connects to any DMP 32-character, Icon Series, or 7800 Series Graphic Touchscreen keypad to demonstrate keypad operation for sales and training presentations.

The module can demonstrate the Area, All/Perimeter, or Home/Sleep/Away systems and can simulate arming and disarming. The 780 Demo also provides access to the following User Menu options:

- ALARM SILENCE
- SENSOR RESET
- ARMED AREAS
- ZONE MONITOR
- USER CODES

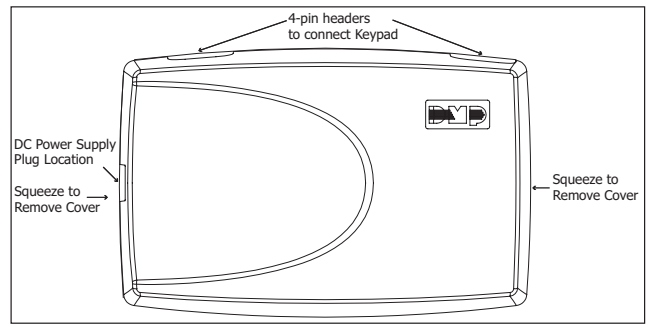


Figure 1: 780 Module

What is Included

The 780 Keypad Demonstrator Module includes the following items:

- One 780 Module (base and cover)
- One 9V Battery
- One DC Power Supply

Mounting the Demo Module

For convenience, the 780 can be permanently mounted to the lower section of any Model 699 DMP Keypad Desk Stand. Use the included adhesive foam or screws to attach the demo module to the desk stand base. The mounting location is shown in Figure 2.

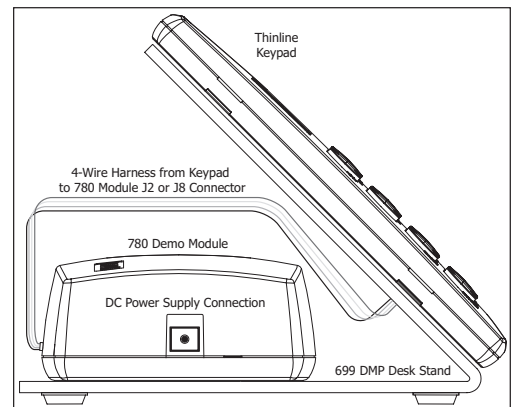


Figure 2: Mounted 780 Demo Module

Powering the Demo Module

Battery Operation for 32-Character or Icon Series

Use the following steps to install and activate 9 VDC Battery operation:

1. Squeeze the left and right sides of the 780 module case together to remove the cover. See Figure 1.
2. Install the 9 VDC battery in the battery compartment. Observe polarity when installing the battery.
3. Install the jumper on the J3 Battery On/Off to enable battery operation.

DC Power Supply Operation

Use the following steps to connect the DC Power Supply:

1. Plug the barrel connector into the J1 barrel jack on the side of the 780 module.
2. Plug the DC Power Supply into a 110 Volt AC outlet.

Note: DC Power Supply operation automatically overrides and internally disconnects battery operation. The DC Power Supply is required for use with the Model 7760 Clear Touch™ and 7800 Series Graphic Touchscreen keypads.

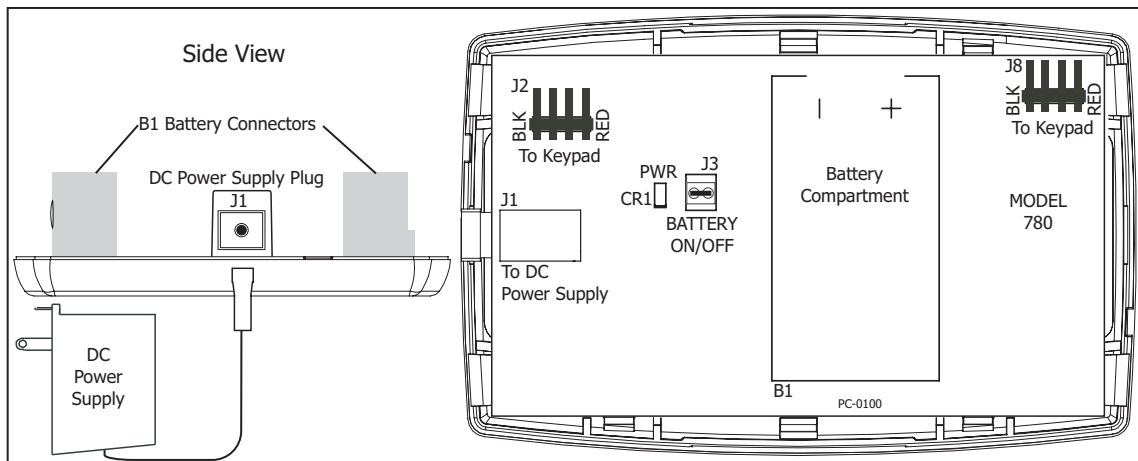


Figure 3: 780 PCB Layout and Power Options



Connecting the Keypad

Icon or 32-Character Keypad

1. Remove the keypad cover, with circuit board and components attached, from the keypad base and set aside.
2. Align the keypad base to the four keypad mounting holes on the DMP Keypad Desk Stand.
3. Insert the screws through the keypad base and 699 Deskstand.
4. Use a Phillips head screwdriver to tighten the four screws into place. Do not overtighten.
5. Run the 4 wire harness through the opening in the Deskstand and keypad base.
6. Observe wire colors and plug one end of the 4-wire harness into the back of the keypad.
7. Connect the opposite end of the 4-wire harness to the J8 4-wire header in the top of the 780 housing. When using a second keypad, connect the second 4-wire harness to the J2 4-wire header.

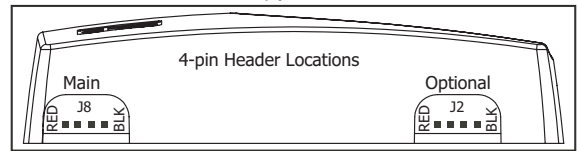


Figure 4: Keypad Connectors

Note: It is not necessary to remove the 780 module cover to complete the keypad connection.

7800 Series Keypad

1. Remove the 7800 keypad cover, with circuit board and components attached, from the keypad base and set aside.
2. Align the keypad base to the four keypad mounting holes on the DMP Keypad Desk Stand.
3. Insert the screws through the keypad base and 699 Deskstand.
4. Use a Phillips head screwdriver to tighten the four screws into place. Do not overtighten.
5. Run the 4-wire harness through the opening in the Deskstand and keypad base.
6. Plug the terminal end onto the right edge of the 12-pin header in the back of the keypad (J5).
7. Snap the keypad cover onto the base.
8. Connect the opposite end of the 4-wire harness to the J8 4-wire header in the top of the 780 housing.

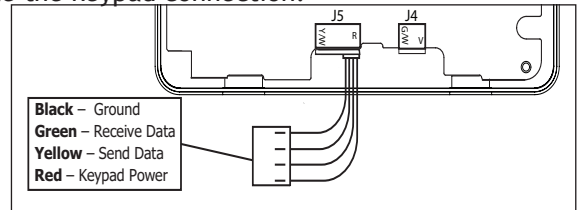


Figure 5: 7800 Keypad Connectors

Programming Keypads for Demonstrations

Icon Series Keypad:

The Icon Series keypad does not need to be programmed for address or supervision.

32-Character Keypad:

Access the Installer Options Menu through the User Options function. Hold down the Back Arrow and COMMAND keys for two seconds to display SET BRIGHTNESS. Enter the code 3577 (INST) and press COMMAND. Select KPD OPT. Press the COMMAND key to scroll through the menu and press any Select key when the desired option displays. Set the following options as described to enable 780 operation.

```
CURRENT KEYPAD
ADDRESS: 01
```

Keypad Address

Set the keypad address to 01. To change the current address, press any Select key and then enter the new address. When using two keypads, set both keypads to address 01.

```
KEYPAD MODE:
*SUP UNSUP
```

Keypad Mode

Set the Keypad to Supervised. To change the current setting, press the Select key under SUP or UNSUP to display an asterisk and enable the selected mode. When using two keypads select Unsupervised operation for the second keypad.

When you complete keypad programming, press the COMMAND key once to return to the Installer Options screen. Select STOP to exit the Installer Options function.

7800 Keypad:

Access the Options screen on the Carousel menu and press Installer Options. Enter the code 3577 (INST) and press COMMAND. Select KPD OPT. Press COMMAND to scroll through the menu and press the desired option when displayed. Set the following options as described to enable 780 operation.

```
CURRENT KEYPAD
ADDRESS: 01
```

Keypad Address

Set the keypad address to 01. To change the current address, press the address and enter the new address. When using two keypads, set both keypads to address 01.

```
KEYPAD MODE:
*SUP UNSUP
```

Keypad Mode

Set the Keypad to Supervised. To change the current setting, press SUP or UNSUP to display an asterisk and enable the selected mode. When using two keypads select Unsupervised operation for the second keypad.

When you complete keypad programming, press COMMAND once to return to the Installer Options screen. Select STOP to exit the Installer Options function.

See the Icon Series Keypad Installation Guide (LT-0953), 32-Character Keypad Installation Guide (LT-0883), or 7800 Series Keypad Install Guide (LT-1162) for the complete keypad programming menu.

Programming the Keypads for Fire Panic Demonstrations

Icon Series Keypad

Access the Installer Options Menu from the User Options menu while displaying the Software Version or Model Number. When either is displayed, enter the code 3577 (INST) and press COMMAND.



Fire Key (F 1)

Use this option to configure the top two right Select keys as 2-button Fire keys. The far left position displays F (Fire) and the far right position displays the fire key setting. To enable the fire key operation press the number one key. This toggles between one (1) and zero (0) on the display. Zero (0) disables this option.

DMP 32-Character Keypad

Access the Installer Options Menu through the User Options function. Hold down the Back Arrow and COMMAND keys for two seconds to display SET BRIGHTNESS. Enter the code 3577 (INST) and press COMMAND.



Arm Panic Keys

Use this option to configure the top row far right Select keys as 2-button Fire Panic keys. To enable or disable the panic keys, press the Select key under the FI (Fire) display. Once the fire panic is enabled, an asterisk displays next to the description. See the Keypad Installation Guide (LT-0883) for the complete keypad programming menu.

7800 Keypad

Access the Installer Options Menu through the User Options function. Press the Installer Options Icon to display the Keypad screen. Enter the code 3577 (INST) and press COMMAND. press KPD OPT and press COMMAND until ARM PANIC KEYS is displayed.

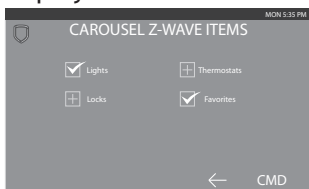


Arm Panic Keys

Use this option to configure the Panic Icons. To enable or disable the Panic Icon, press the icon name: FI (Fire). Once the Panic Icon is enabled, an asterisk displays next to the description and press COMMAND. The Panic Icon displays for the user. See the 7800 Series Keypad Install Guide (LT-1162) for the complete keypad programming menu.

Programming the 7800 Keypad for Z-Wave Demonstrations

Access the Options screen on the Carousel menu and press Installer Options. Enter the code 3577 (INST) and press COMMAND. Select KPD OPT. Press COMMAND to scroll through the menu. Press the Carousel Z-Wave Items when displayed.



Use this option to select the Z-Wave options to be displayed in the Carousel Menu on the main screen. Press the item to select and a check-mark displays. Press again to de-select. Items for the Carousel include Lights, Locks, Thermostats, and Favorites.

Programming an Arming System for the 780

Icon Series Keypad

Within the first 20 seconds of power-up, select All/Perimeter or Home/Sleep/Away arming systems to demonstrate.



All/Perimeter

Press the ALL (1) button OR the PERIM (6) button for 2 seconds to select All/Perimeter arming system.



Home/Sleep/Away

Press the HOME (3) button OR the SLEEP (7) button for 2 seconds to select the Home/Sleep/Away arming system

Note: If an arming system is not selected within the first 20 seconds or the COMMAND key is pressed, the 780 reverts to the last arming system programmed for demonstration. If the last arming system programmed was an Area system, the Icon Series Keypad displays "bSY". Use a 32-character LCD keypad to change the arming system or power down and power up the 780 to select All/Perimeter or Home/Sleep/Away.

DMP 32-Character Keypad

Select Area, All/Perimeter, or Home/Sleep/Away arming systems to demonstrate.

PROGRAMMER

Programmer

Enter 6653 at the status list to access the Programmer. Press COMMAND. The currently selected arming system displays.

ARMING SYSTEM
AREA A/P H/A

Arming System

To change the current system, press any Select key to display the options. Press the Select key below the system to use, Area, A/P or H/A. Press COMMAND to display STOP and press any Select key to end programming.

7800 Keypad

PROGRAMMER

Programmer

Access the Keypad screen through the Carousel menu. Enter 6653 at the status list to access the Programmer. Press COMMAND. The currently selected arming system displays.

ARMING SYSTEM
AREA A/P H/A

Arming System

To change the current system, press ARMING SYSTEM to display the options. Press the desired option to use, Area, A/P, or H/A. Press COMMAND to display STOP and press STOP to end programming.

Factory Programmed Areas

For demonstration purposes, the Area, All/Perimeter, and Home/Sleep/Away arming systems each contain factory programmed areas.

Area Arming

- 1- Northwest Office (includes the Front Door)
- 2- Manufacturing
- 3- South Warehouse
- 4- West Power Plant

All/Perimeter - Home/Sleep/Away

- 1- Perimeter (includes the Front Door)
- 2- Interior
- 3- Bedrooms (Home/Sleep/Away only)

Demonstration

Keypad Operation

The 780 Demo module simulates the keypad User Menu available to customers in actual installations. Use the following sections to demonstrate keypad setup and operation. Prior to demonstrating operation, make sure your demo keypad is set as follows:

7800/32-Character	Set to Address 1	Accepts 4-digit user codes from the keypad
Icon	Does not need to be programmed for address, supervision, or 4-digit user codes.	

User Menu Options

32-Character Keypads

To enter the User Menu, press the COMMAND key until MENU? NO YES displays then Select YES. At the ENTER CODE: - option, enter any 4-digit code.

Once in the User Menu, use the COMMAND and Back Arrow keys to scroll through the available options. To access any of the available options in the User Menu, press any Select key when the desired option displays.

- **Alarm Silence** – Simulates silencing an alarm.
- **Sensor Reset** – Simulates resetting sensors.
- **Armed Areas** – Displays the name of each armed area for 4 seconds.
- **Zone Monitor** – Simulates the tone a user hears when using the zone monitor.
- **User Codes** – Simulates the adding and deleting of user codes to the system. After specifying the user level, you can use the Keypad screen to demonstrate entering a custom user name into the system.

Note: The keypad time is not adjustable and starts at 10:00AM and returns to 10:00AM after 59 minutes elapse.

7800 Keypad

To enter the User Menu, press the KEYPAD on the Carousel Menu. Press COMMAND until MENU? NO YES displays then Select YES. At the ENTER CODE: - option, enter any 4-digit code.

Once in the User Menu, use COMMAND and Back Arrow to scroll through the available options. To access any of the available options in the User Menu, press the desired option when it displays.

- **Alarm Silence** – Simulates silencing an alarm.
- **Sensor Reset** – Simulates resetting sensors.
- **Armed Areas** – Displays the name of each armed area for 4 seconds.
- **Zone Monitor** – Simulates the tone a user hears when using the zone monitor.
- **User Codes** – Simulates the adding and deleting of user codes to the system. After specifying the user level, you can use the Keypad screen to demonstrate entering a custom user name into the system.

Note: The keypad time is not adjustable and starts at 10:00AM and returns to 10:00AM after 59 minutes elapse.

Keypad Shortcut Key Options

Icon Series and all DMP 32-Character Keypads

Your keypad provides one-button shortcut keys. While the Demo is disarmed, hold down a keypad button for two seconds until the tone re-sounds.

Keypad Shortcut Keys

Keypad Key	Arming System Operation
Press Key 1	Arm Away for Home/Sleep/Away systems Arm All for All/Perimeter systems
Press Key 2	Sensor (Fire) Reset on all systems Note: Requires user code for Area systems
Press Key 3	Arm Home for Home/Sleep/Away systems
Press Key 5	Monitor (Chime) on all systems
Press Key 6	Arm Perimeter for All/Perimeter systems
Press Key 7	Arm Sleep for Home/Sleep/Away systems
Press INST Key	Instantly arms system without the countdown (Icon only)

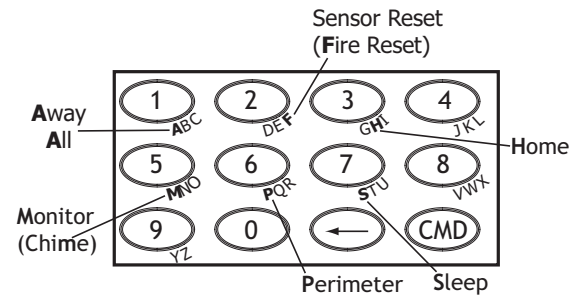


Figure 6: Keypad Shortcut Keys

7800 Keypads

Carousel Menu Options

The 780 Demo module simulates the Carousel Menu available to customers in actual installations. Your 7800 Series keypad provides access options through icons on the Carousel Menu.

Carousel Menu	Arming System Operation
Reset	When your system had a previous fire alarm, this option resets the smoke detector sensors
Check-in	Displays the Keypad screen prompting entry of a USER CODE. Enter your user code to send a Check-in Report
Chime	Activates MONITOR
Panic	Opens the Panic Options screen to send a POLICE, EMERGENCY, or FIRE report
Easy Exit	Activates the Exit Delay timer
Keypad	Displays the Keypad screen. This replicates the standard button type keypad
User Options	Displays the Setting Options screen where you may adjust the Screen Brightness, Tone, and Volume
Lights	Displays the Lights screen allowing you to turn ON and turn OFF or DIM Z-Wave equipped lights
Locks	Displays the Z-Wave Locks screen allowing you to LOCK or UNLOCK Z-Wave equipped doors and display the battery status of each lock
Thermostats	Displays the Z-Wave Thermostat screen allowing you to select ON or OFF, COOL or FAN, and adjust the temperature
Favorites	Displays the Z-Wave Favorites screen allowing you to select and activate a Z-Wave Favorite
Interactive Shield	Provides arming and disarming from the Main Screen

How to Arm an Area System

Icon Series Keypads

In an Area system, the Icon Series Keypad displays "bSY". Use a 32-character LCD keypad to change the arming system or power down and power up the 780 to select All/Perimeter or Home/Sleep/Away.

32-Character Keypads

Press the COMMAND key at the status list to display ARM DISARM and select ARM. At ALL? NO YES, select YES to arm all areas. Select NO to only arm selected areas. The name of each area displays along with the area number and a NO YES option. Select NO to leave the area disarmed and display the next area.

7800 Keypad

Press the Interactive Shield on the main screen. Select from either ARM DISARM and select ARM. At ALL? NO YES, select YES to arm all areas. Select NO to only arm selected areas. The name of each area displays along with the area number and a NO YES option. Select NO to leave the area disarmed and display the next area.

How to Arm an All/Perimeter and Home/Sleep/Away Systems

Icon Series Keypads

The Icon Series keypad supports arming the system with shortcut keys.

Shortcut Key Arming:

- Arm All or Away – Press 1 Arm Home – Press 3 to arm the perimeter.
- Arm Perimeter – Press 6 Arm Sleep – Press 7 to arm the perimeter and interior areas and
leave the bedroom area disarmed.

While the Thumbs Up Icon is displaying, press and hold any of the shortcut keys for two seconds to arm your system. A Closed Lock Icon will display and displays A for ALL, H for HOME, P for PERIMETER, or S for SLEEP.

32-Character Keypads

Press COMMAND at the status list and select from either the PERIM ALL or HOME SLEEP AWAY options. During the exit delay in All/Perimeter and Home/Sleep/Away systems, press the Select key under INSTANT to instantly arm the areas.

7800 Keypads

Press the Interactive Shield on the main screen. Select from either PERIM ALL or HOME SLEEP AWAY by pressing the option. During the exit delay in All/Perimeter and Home/Sleep/Away systems, press ARM INSTANT to instantly arm the areas.

How to Disarm an Area System

32-Character Keypads

Press COMMAND to display ARM DISARM. Select DISARM to display ENTER CODE: -. Enter any 4-digit code. The Demo displays ALL? NO YES, select YES to disarm all four areas. Select NO to disarm selected areas. The keypad displays the name and number of each area and a NO YES option. Select NO to leave the area armed and display the next area. The keypad displays ALL SYSTEM OFF.

7800 Keypad

Press the Interactive Shield on the main screen. Select DISARM to display ENTER CODE: -. Enter any 4-digit code. The Demo displays ALL? NO YES, select YES to disarm all four areas. Select NO to disarm selected areas. The keypad displays the name and number of each area and a NO YES option. Select NO to leave the area armed and display the next area. The keypad displays ALL SYSTEM OFF.

How to Disarm an All/Perimeter and Home/Sleep/Away Systems

Icon Series Keypads

When the Armed (Closed Lock) Icon is displaying, enter any 4-digit code. The keypad displays the Unarmed (Open Lock) Icon.

32-Character Keypads

Enter any 4-digit code. The keypad displays ALL SYSTEM OFF.

7800 Keypad

Press the Interactive Shield on the main screen. Enter any 4-digit code. The keypad displays DISARMED below the Interactive Shield on the main screen.

Front Door Zone Alarm for an Area System

32-Character Keypad

While armed, pressing the far left top row Select key for 2 seconds simulates a front door zone fault and starts the entry delay. After 10 seconds, the keypad displays FRONT ENTRY DOOR alarm.

Entering any 4-digit user code silences the alarm while leaving the areas armed. To turn off the Red keypad backlighting, disarm the system.

7800 Keypad

While armed, access the Keypad screen from the Carousel menu. Pressing the far left Select area for 2 seconds simulates a front door zone fault and starts the entry delay. After 10 seconds, the keypad displays FRONT ENTRY DOOR alarm.

Entering any 4-digit user code silences the alarm while leaving the areas armed. To turn off the Red backlighting, disarm the system.

Front Door Zone Alarm for an All/Perimeter and Home/Sleep/Away Systems.

Icon Series Keypads

While armed, pressing the far left top row Select key for 2 seconds simulates a front door zone fault and starts the entry delay. After 10 seconds, the keypad displays FRONT ENTRY DOOR alarm.

Entering any 4-digit code displays CANCEL VERIFY. Press the Select key under CANCEL to turn off the Red keypad backlighting and silence the alarm. ALC (ALARM CANCELED) is displayed. Press the Select key under VERIFY to silence the alarm only. A (ARMED) is displayed and the system remains armed.

32-Character Keypad

While armed, pressing the far left top row Select key for 2 seconds simulates a front door zone fault and starts the entry delay. After 10 seconds, the keypad displays FRONT ENTRY DOOR alarm.

Entering any 4-digit code displays IS THIS A FALSE ALARM? NO YES. Press YES to turn off the Red backlighting and silence the alarm. ALARM CANCELED is displayed. Press NO to silence the alarm only. ALARM VERIFIED is displayed.

7800 Keypad

While armed, access the Keypad screen from the Carousel menu. Pressing the far left Select area for 2 seconds simulates a front door zone fault and starts the entry delay. After 10 seconds, the keypad displays FRONT ENTRY DOOR alarm.

Entering any 4-digit code displays IS THIS A FALSE ALARM? NO YES. Press YES to turn off the Red backlighting and silence the alarm. ALARM CANCELED is displayed. Press NO to silence the alarm only. ALARM VERIFIED is displayed.

Fire Alarm

Icon or 32-Character Keypads

Zone Alarm

Pressing the second top row Select key for 2 seconds simulates a fire zone alarm. The keypad displays SMOKE DETECTOR and sounds the alarm. To silence the alarm, enter any 4-digit code.

Panic Key Fire Alarm

To demonstrate the panic fire alarm capability, the 780 provides an audible and visual alarm representation of a user-activated fire alarm. Initiate the alarm by pressing and holding the two top right Select keys.

Red Backlighting

Perform a Fire (Sensor) Reset to turn off the Red keypad backlighting. Refer to the User Menu Options or Keypad Shortcut Key Options sections in this document.

7800 Keypad

Zone Alarm

Access the Keypad screen from the Carousel menu. Pressing the second top row Select key for 2 seconds simulates a fire zone alarm. The keypad displays SMOKE DETECTOR and sounds the alarm. To silence the alarm, enter any 4-digit code.

Panic Key Fire Alarm

To demonstrate the panic fire alarm capability, the 780 provides an audible and visual alarm representation of a user-activated fire alarm. Initiate the alarm by pressing Panic on the Carousel menu and holding the FIRE Icon.

Red Backlighting

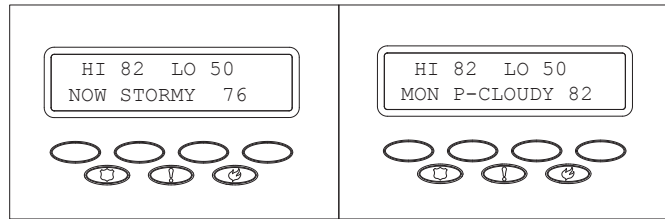
Perform a Fire (Sensor) Reset to turn off the Red keypad backlighting. Refer to Reset in the Carousel Menu Options section in this document.

Weather Demonstration for 32-Character and 7800 Series Keypads

The 780 Demonstrator Module rotates through pairs of simulated weather conditions from Monday through Sunday. Weather conditions are displayed for NOW and the following day on the main screen for the 7800 Series Keypad and in the status list for the 32-Character Keypads.



7800 Series Keypad Weather Display



32-Character Series Keypad Weather Display

Z-Wave Demonstration for 7800 Series Keypads

The Z-Wave Demonstration mimics the control of Z-Wave devices. When you change the status of a Z-Wave Lights, Locks, or Thermostats, the keypad displays updates to mimic the change.

Z-Wave Lights:

Press LIGHTS until it glows. This displays the Z-Wave Lights screen allowing you to turn ON, turn OFF or DIM the BEDROOM LAMP, BEDROOM MAIN, and LIVING ROOM lights. Sliders below the icons simulate a Z-Wave Lamp Module with Dimmer (Model Z-45602). The HALLWAY light simulates the Z-Wave Fluorescent Light and Appliance Module (Model Z-45603). Only four Z-Wave Lights will display per screen. Slide your finger across the screen to page to the next set of lights.

Z-Wave Locks:

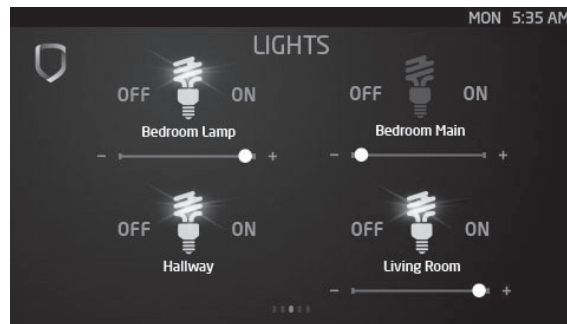
Press LOCKS until it glows. This displays the Z-Wave Locks screen allowing you to LOCK or UNLOCK the FRONT DOOR, BACK DOOR, GARAGE DOOR, and BASEMENT DOOR Z-Wave Locks. When the door is locked the Key Icon is highlighted and Locked is displayed below the name of the Z-Wave Lock. When the door is unlocked the Key Icon is dim and Unlocked is displayed below the name of the Z-Wave Lock.

Z-Wave Thermostats:


Press THERMOSTATS until it glows. This displays the Z-Wave Thermostats screen allowing you to select ON or OFF, HEAT, COOL or FAN, and adjust the temperature for the MAIN and DOWNSTAIRS Z-Wave Thermostats. Only one Z-Wave Thermostat will display at one time.



7800 SERIES CAROUSEL MENU



Z-WAVE LIGHTS SCREEN

<p>Compatibility The 780 Demonstrator Module is compatible with all 32-character DMP keypads, DMP Icon series keypads, and DMP 7800 series keypads.</p>	<p>Accessories 699 Keypad Desk Stand 376 Plug-in DC Power Supply</p>
	<p>800-641-4282 www.dmp.com Designed, Engineered and Assembled in U.S.A.</p>
<p>INTRUSION • FIRE • ACCESS • NETWORKS 2500 North Partnership Boulevard Springfield, Missouri 65803-8877</p>	