PROGRAM THE PANEL

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

1. Reset the panel and enter 6653 (PROG) at a keypad.
2. In ZONE INFORMATION, program the expansion zones as any of the panel’s burglary or fire zone types. You can also program zones as an Arming (AR) zone type when they are being used with key switches.
3. Press CMD until STOP displays. Press a top row select key or area to save programming.

MOUNT THE ENCLOSURE

Mount the enclosure in a secure, dry place. It is not necessary to remove the zone expander circuit board when installing the enclosure.

The enclosure can be surface or flush mounted using the holes provided. Each of the four sides have dual 1/2” and 3/4” conduit knockouts for running wires out of the enclosure. For more information, refer to Figure 2.

WIRE THE ZONE EXPANDER

The zone expanders provide a 3-pin header with jumper used to select the connection type.

To connect the expander to the Keypad Bus, place the jumper across the two leftmost pins. To connect the expander to the LX-Bus, place the jumper across the two rightmost pins. For more information, refer to Figure 2.

Connect to the LX-Bus

To wire the 714-8/714-16, join the red, yellow, green, and black wires to a 4-wire harness and connect it to the LX-Bus.

To wire the 715-8/715-16, connect the red wire to panel Terminal 11 (Smoke power terminal). This allows Sensor Reset to drop power to the module and devices connected to its zones. Join the yellow, green, and black wires to a 4-wire harness and connect it to the LX-Bus.
Connect the 714-8/714-16 to the Keypad Bus
1. Connect the red, yellow, green, and black wires to panel Terminals 7, 8, 9, and 10 respectively.
2. Observe polarity and wire the zones.
3. For 714-8 expanders with hardware Level E or higher, install any resistor from 1k-4.7k Ohm. For 714-8 expanders with hardware Level D or lower and 714-16 expanders, install the included 1k Ohm EOL resistors.

Connect the 715-8/715-16 to the Keypad Bus
1. Connect the red wire to panel Terminal 11 (Smoke power terminal). This allows Sensor Reset to drop power to the module and devices connected to its zones. Alternately, connect red to a regulated, power limited power supply listed for Fire Protective Signaling through a Model 716 relay. Use the Sensor Reset Output programming to drop power to the expander.
2. Connect the yellow, green, and black wires to panel Terminals 8, 9, and 10 respectively.
3. Observe polarity and wire the zones.
4. Install the included 3.3K Ohm EOL resistors.

SET THE ZONE EXPANDER ADDRESS
714-8/16 and 715-8/16 Point Zone Expanders use two rotary switches (TENS and ONES) to set the zone expander address.

For keypad bus addresses, the ONES switch must be set to a starting address that communicates the status of the first four zones (Z1 through Z4) on the expansion module. The next consecutive keypad address is automatically used to communicate the status of the next four zones (Z5 through Z8), etc. For example, when you set the TENS switch to 0 and the ONES switch to 2, the first four expander zones respond as zones 21 through 24. Expander zones 5 through 8 respond as panel zones 31 through 34, zones 9 through 12 respond as panel zones 41 through 44, and zones 13 through 16 respond as panel zones 51 through 54. Refer to Table 1.

For LX-Bus addresses, set the switches to match the second two digits of the first panel zone being used. The next 15 zone addresses communicate the status of the expander zones 2 through 16. For example, if you set the TENS switch to 3 and the ONES switch to 2, the sixteen zones on the expander respond as panel zones 532 to 547 when connected to LX500. When connected to LX600, the zones respond as 632 to 647. Refer to Table 2.
Wiring Specifications

DMP recommends using 18 or 22 AWG for all LX-Bus and Keypad Bus connections. The maximum wire distance between any module and the DMP Keypad Bus or LX-Bus circuit is 1,000 feet. To increase the wiring distance, install an auxiliary power supply, such as a DMP Model 505-12. Maximum voltage drop between a 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 an auxiliary power supply at the end of the circuit.

To maintain auxiliary power integrity when using 22-gauge wire on Keypad Bus circuits, do not exceed 500 feet. When using 18-gauge wire, do not exceed 1,000 feet. Maximum distance for any bus circuit is 2,500 feet regardless of wire gauge. Each 2,500 foot bus circuit supports a maximum of 40 LX-Bus devices.

For additional information refer to the LX-Bus/Keypad Bus Wiring Application Note (LT-2031) and the 710 Bus Splitter/Repeater Module Installation Guide (LT-0310).

LED Operation

The LED on the zone expanders flashes each time the zone expander responds to a poll from the panel. If there is a problem with the hardware, panel programming, or the green data wire between the panel and the zone expander zone expander, the LED stops flashing and System Trouble appears in the keypad display.
**COMPLIANCE LISTING SPECIFICATIONS**

**UL Commercial Burglary**
To comply with ANSI/UL 365 Police-Connected Burglary System or ANSI/UL 609 Local Burglary Alarm Systems, the zone expander must be mounted in the supplied, UL listed enclosure with a tamper.

**UL Commercial Fire**
See the panel installation guide for details for selecting compatible 2-wire smoke detectors. Any auxiliary power supply used must be regulated, power limited and listed for Fire Protective Signaling.

**ULC Commercial Burglary (XR150/XR550 Series Panels)**
Place the zone expander zone expander in a listed enclosure and connect a DMP Model 307 Clip-on Tamper Switch to the enclosure programmed as a 24-hour zone.

The 714/715 zones can be installed in medium or high risk applications when two zones are used as shown in the Dual Zone Protection diagram in the XR150/XR550 Canadian Installation guide. Otherwise, 714/715 zones can only be used in low risk applications.

**ULC Residential Fire (XR150/XR550 Series Panels)**
Refer to the appropriate panel compliance listing guide for the complete list of UL approved smoke detectors.

### 714-8/16 AND 715-8/16 ZONE EXPANDERS

**Specifications**
- **Operating Voltage**: 8.8 to 15.0 VDC
- **Operating Current**
  - **714-8/16**
    - Average: 20 mA + 1.6 mA per zone
    - Alarm: 20 mA + 2 mA per zone
  - **715-8/16**
    - Average: 20 mA + 4 mA per zone
    - + 0.1 per 2-wire smoke
    - Alarm: 20 mA
    - + 58 mA per shorted zone
    - + 0.1 per 2-wire smoke
    - + 30 mA per smoke in alarm
- **Dimensions**
  - **340 Enclosure**: 12.50” W x 9.50” H x 2.85” D
  - **350 Enclosure**: 17.50” W x 13.50” H x 3.50” D

**Ordering Information**
- 714-8: 714-8 in gray Model 340 enclosure
- 714-8-R: 714-8 in red Model 340 enclosure
- 714-8L-G: 714-8 in gray Model 350 enclosure
- 714-8L-R: 714-8 in red Model 350 enclosure
- 714-8PCB: 714-8 PCB only
- 714-16: 714-16 in gray Model 340 enclosure
- 714-16-R: 714-16 in red Model 340 enclosure
- 714-16L-G: 714-16 in gray Model 350 enclosure
- 714-16L-R: 714-16 in red Model 350 enclosure
- 714-16PCB: 714-16 PCB only
- 715-8: 715-8 in red Model 340 enclosure
- 715-8PCB: 715-8 PCB only
- 715-16: 715-16 in red Model 340 enclosure
- 715-16PCB: 715-16 PCB only

**Accessories**
- 340-G: Panel Enclosure, gray
- 340-R: Panel Enclosure, red
- 350-G: Large Panel Enclosure, gray
- 350-R: Panel Enclosure, red
- 350-GCAN: Panel Enclosure, gray (Canada)
- 351ONQ: ONQ wiring enclosure mounting plate
- 351PRI: PRI wiring enclosure mounting plate
- 354: Retrofit Mounting Plate
- 354A: Retrofit Mounting Plate

**Certifications**
- California State Fire Marshal (CSFM)
- New York City (FDNY COA #6167)
- Underwriters Laboratory (UL) Listed
  - ANSI/UL 365: Police Station Connect Burglar Alarm Systems
  - ANSI/UL 609: Local Burglar Alarm Units & Systems
  - ANSI/UL 864: Fire Protective Signaling Systems
  - ANSI/UL 985: Household Fire Warning System Units
  - ANSI/UL 1023: Household Burglar Alarm System Units
  - ANSI/UL 1076: Proprietary Burglar Alarm Units & Systems
  - ANSI/UL 1610: Central Station Burglar Alarm Units
  - ANSI/UL 1635: Digital Alarm Communication System Units
  - ULC Subject-C1023: Household Burglar
  - ULC/ORD-C1076: Proprietary Burglar
  - ULC S304: Central Station Burglar
  - ULC S545: Household Fire