INSTALLATION AND PROGRAMMING GUIDE

XF6 Series

DIGITAL MONITORING PRODUCTS, INC.

MODEL XF6 SERIES

Contains installation and programming Instructions for use with the Model XF6 Series Fire Control Panels.

When using the XF6 Series panel for any listing organization's approved methods, refer to the Compliance Listing Guide (LT-2779). This document outlines the installation and programming requirements of all applications for which XF6 Series control panels are approved.

Information furnished by DMP is believed to be accurate and reliable.
This information is subject to change without notice.

ABOUT THE PANEL

The DMP XF6 Series system consists of an alarm panel with a built-in communicator, an enclosure with built-in Graphic Fire Command annunciator, and a 28 VAC 130 VA transformer. A complete system can provide:

- 138 or 570 programmable inputs and outputs for commercial and industrial fire alarm service
- Six onboard 24 V class B zones, 2 NAC circuits

The powered zones have a reset capability to provide for 2-wire smoke detectors, relays, or other latching devices. Addressable smoke detectors and input modules round out the XF6 Series Series panel to deliver a truly flexible and expansive fire detection and notification system. The Fire Alarm Control Panel is shipped ready to mount in a red steel enclosure. It is not necessary to remove the panel PCB when installing the enclosure.

Zone Expansion

The Annunciator Bus features up to 64 zones (16 addresses with 4 zones per address)

Six 24 V zones on the terminal strip

Up to 500 zones are available using the on board LX-Bus connections. All 500 zones can be wireless.

Output Expansion

In addition to the two SPDT relays and four programmable open collector outputs on the panel, you can also connect up to 25 programmable Model 716 Output Expansion Modules to each LX-Bus. These modules can provide an additional 100 or 500 programmable SPDT relays.

SPECIFICATIONS SUMMARY

For a full list of compatible panel accessories, refer to "Accessory Devices."

Power Supply

Transformer— Input: 120V 60 Hz, 1.3 Amp; Output: 28 VAC 130 VA

Standby Battery—24 VDC (Two 12V batteries wired in series), 1.5 Amps Max. charging current

Smoke and Auxiliary—24 VDC output at 0.75 Amp Max (not shared)

NAC Circuit 1 and NAC Circuit 2—24 VDC at 2.5 Amp Max

All combined circuits (including 12 VDC and 24 VDC current drawing devices attached to the panel) cannot exceed 3.5 Amps. All circuits are power limited except the red battery wire and AC terminal.

Communication

- Built-in network communication to SCS-1R and SCS-VR Receivers
- Optional cellular communication to SCS-1R and SCS-VR Receivers
- Can operate as a local panel

Panel Zones (24 VDC)

Six powered zones (3.3k EOL).

NAC BUS (24 VDC)

The two onboard NAC circuits support the following protocols:

- DMP
- Gentex
- Wheelock
- System Sensor

Annunciator Bus (12 VDC)

You can connect the following supervised annunciators and expansion modules to the Annunciator Bus:

- Alphanumeric annunciators
- Sixteen, eight, four, and single-zone expansion modules
- Single zone detectors

LX-Bus (12 VDC)

You can connect the following devices to the LX-Bus connections provided on the panel. See Accessory Devices for information about specific connections.

- Sixteen, eight, four, and single-zone expansion modules
- Relay output expansion modules
- 2W-BLX/2WT-BLX Addressable Smoke Detectors

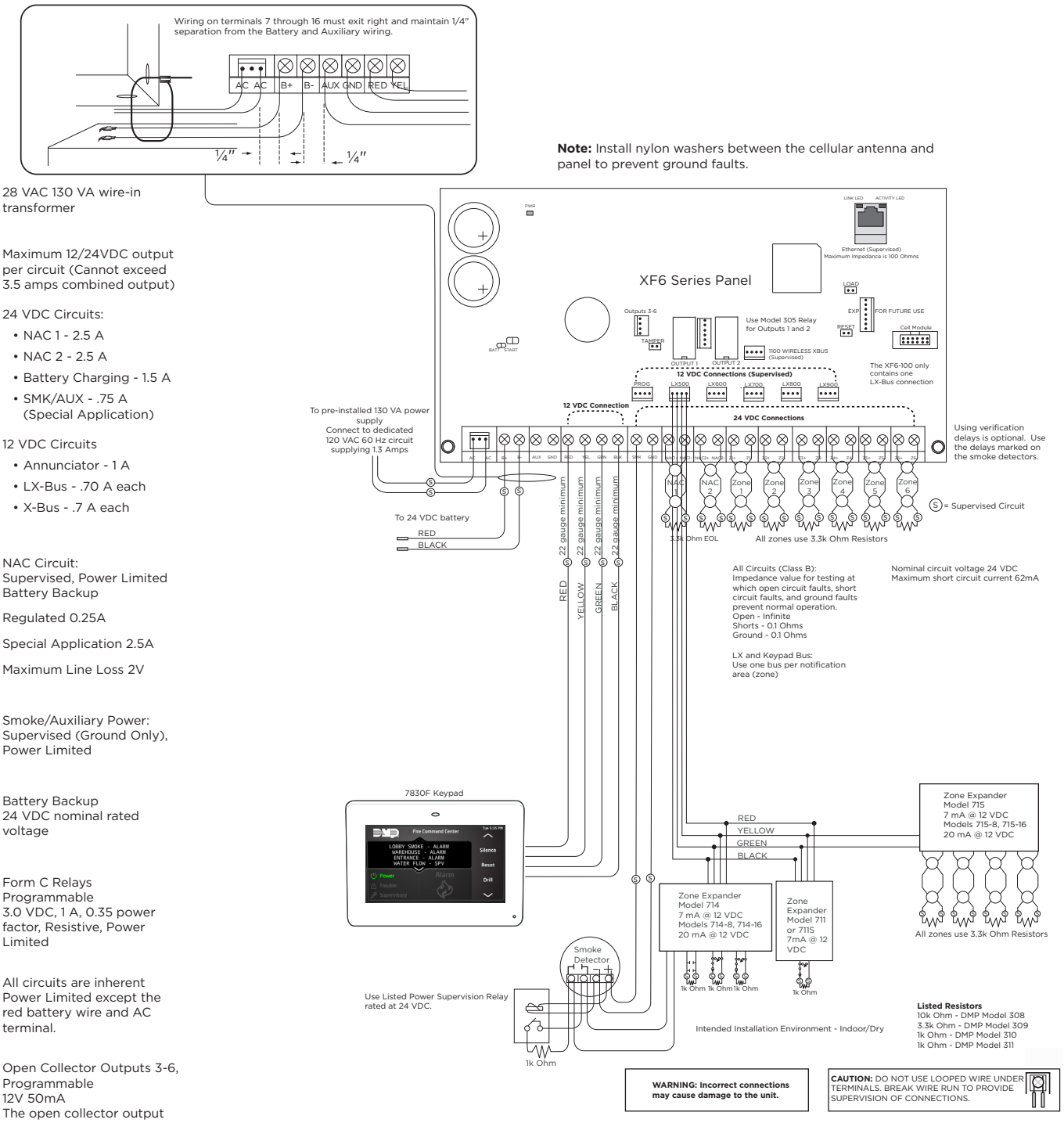
Outputs

The XF6 Series panel provides two Single Pole, Double Throw (SPDT) relay outputs which require the installation of two Model 305 relays, each rated 1 Amp at 30 VDC resistive (power limited sources only). A Model 431 Output Harness is required to use these outputs.

The panel also provides four open collector outputs rated for 50 mA each. The open collector outputs provide ground connection for a positive voltage source. A Model 300 Output Harness is required to use these outputs.

SYSTEM COMPONENTS

The diagram below shows some of the accessory modules you can connect for use in various applications. A brief description of each module follows in the Ordering Information section.



XF6 Series Wiring Diagram

Lightning Protection

Metal Oxide Varistors and Transient Voltage Suppressors help protect against voltage surges on panel input and output circuits. Additional surge protection is available with Model 370 or 370RJ Lightning Suppressors. For more information, refer to the 370/370RJ Installation Sheet (LT-0181).

INSTALL THE PANEL

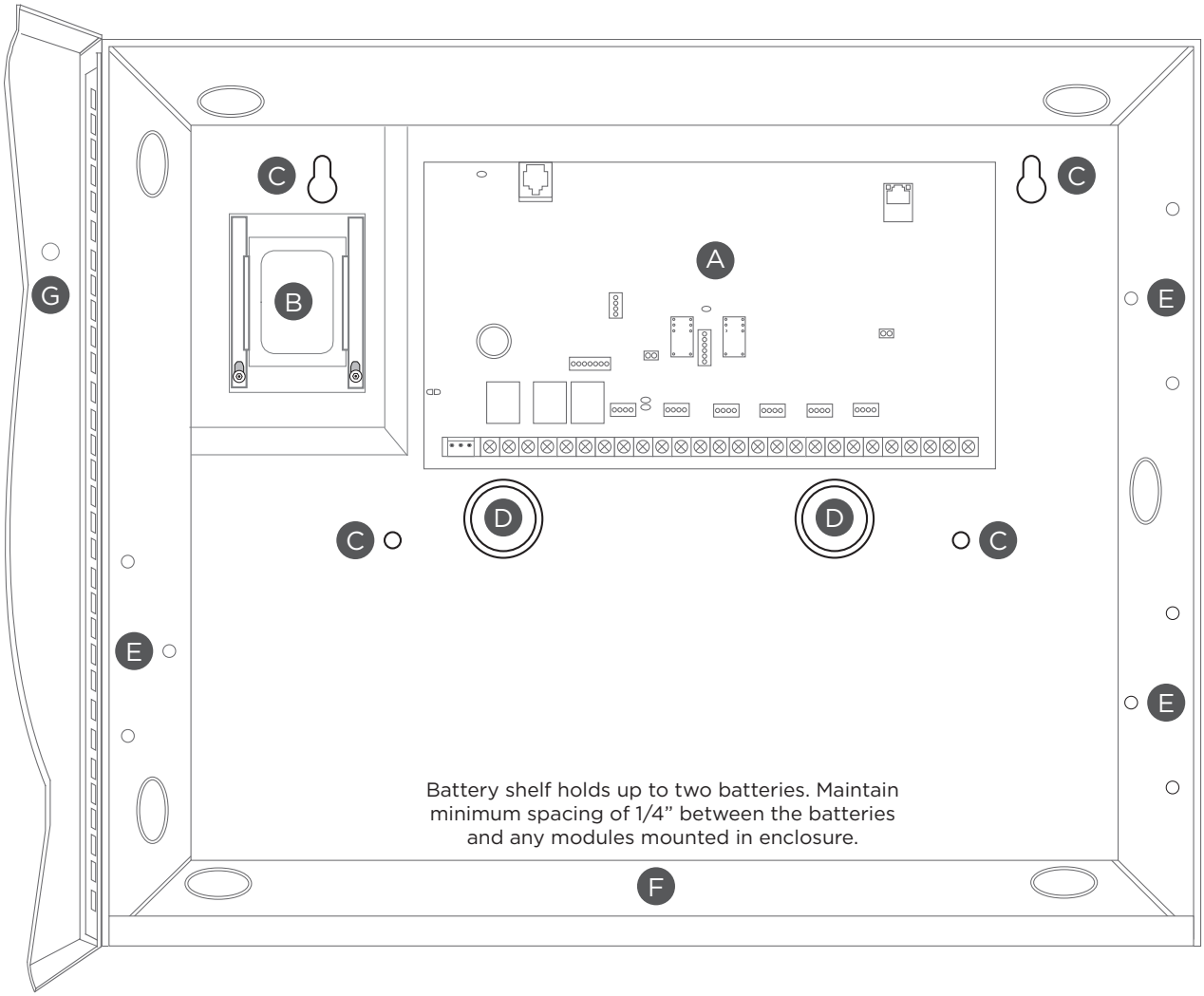
Mount the Enclosure

The XF6 Series panel enclosure must be mounted using the four mounting holes shown in the image below. Mount the enclosure in a secure, dry place to protect the panel from damage from tampering or the elements. It is not necessary to remove the panel PCB when installing the enclosure.

The enclosure dimensions are 13.44” H X 17.1” W X 4.8” D.

Note: For additional standby batteries, use the Model 350, 349, or 352S enclosures.

A Panel
B Transformer
C Enclosure Mounting Holes
D 1-3/4” Knockouts
E Module Mounting Holes
F Battery Shelf
G Ground



Battery shelf holds up to two batteries. Maintain minimum spacing of 1/4” between the batteries and any modules mounted in enclosure.

Fire Command LCD Annunciator

A 7830F-R Fire Command Annunciator is factory installed on the panel enclosure door. The display and keyboard are factory pre-wired to the PROG header. For standby battery calculations, the LCD display draws 84 mA of current in normal or standby conditions, and 108 mA in the alarm condition. For more information, refer to "Power Requirements".

Additional 7830F-R annunciators can be added as needed.

7830F-R Fire Command Annunciator

Mounting Additional Annunciators, Zone Expanders, and Modules

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

The DMP 711, 714, 715, and 716 modules are each contained in molded plastic housings with removable covers. The base provides you with mounting holes for installing the unit to a wall, switch plate, or other surface.

Mount any additional modules in the panel enclosure using the standard 3-hole mounting pattern. Refer to the appropriate product guides for installation instructions.

WIRE THE PANEL

Wiring Specifications

DMP recommends using 18 AWG for all LX-Bus, NAC, and Annunciator Bus connections. The maximum wire distance between any module and the DMP Annunciator 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 or a DMP Model PS12-5.

To maintain auxiliary power integrity when using 18-gauge wire on Annunciator Bus circuits, 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. To increase the wire length or to add devices, install an additional power supply that is listed for Fire Protective Signaling, power limited, and regulated (24 VDC nominal) with battery backup.

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.

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

Wire the Transformer

The XF6 Series Series panel comes with a pre-installed 28 VAC 130 VA transformer. The transformer must be wired to a dedicated, non-switched 120 VAC 60 Hz circuit supplying 1.3 Amps.

Caution: Never share the Fire Alarm Control Panel circuit with any other equipment. Always ground the panel before applying power to any devices and use 18 AWG or larger for all power connections.

Wire the Batteries

DMP recommends replacing batteries every 3 to 5 years under normal use. Connect the black battery lead to the negative battery terminal. Connect the red battery lead to the battery positive terminal. The batteries will need to be wired in series, meaning the black and red leads will be connected to different batteries with a jumper wire connecting the two.

Caution: The XF6 Series panel requires two 12 VDC backup batteries wired in series. It cannot be powered by a single 12 VDC backup battery.

For additional standby batteries, use a DMP Model 349, 350 or 352S enclosure. All wiring shall run through conduit. The enclosure shall be installed to the left of the panel enclosure to ensure Battery and AC wire separation.

Caution: Use sealed lead-acid batteries only. Batteries supplied by DMP have been tested to ensure proper charging with DMP products. Do not use gel cell batteries.

Battery Only Restart

When powering up the XF6 Series Series panel without AC power, briefly short the battery start pads to pull in the battery cutoff relay. Once the relay has been pulled in, the battery voltage holds it in that condition.

If the panel is powered up with an AC transformer, the battery cutoff relay is pulled in automatically.

Discharge/Recharge

The XF6 Series Series panel battery charging circuit float charges at 27.6 VDC at a maximum current of 1.5 Amps for a maximum of 43 Ah. Battery voltage level conditions are determined by the following voltage ranges:

Battery Trouble	Below 23.4 VDC
Battery Cutoff	Below 20 VDC
Battery Restored	Above 24.6 VDC

Battery Supervision

The panel tests the battery when AC power is present. The test is done every three minutes and lasts for five seconds. During the test, the panel places a load on the battery. If the battery voltage falls below 23.4 VDC a low battery is detected. If AC power is not present, a low battery is detected any time the battery voltage falls below 23.4 VDC. When battery voltage drops below 20 VDC, the panel performs a battery cutoff to prevent deep discharge damage.

If a low battery is detected with AC power present, the test repeats every two minutes until the battery charges above 24.6 VDC. If a weak battery is replaced with a fully charged battery, the restored battery will not be detected until the next test is completed.

Power Requirements

During AC power failure, the XF6 Series panel and all connected auxiliary devices draw their power from the battery. All devices must be taken into consideration when calculating the battery standby capacity. The following table lists the XF6 Series panel power requirements. You must add the additional current draw of annunciators, zone expansion modules, smoke detector output, and any other auxiliary devices used in the system for the total current required. The total is then multiplied by the number of standby hours required to calculate the total ampere-hours required.

STANDBY BATTERY POWER CALCULATIONS	STANDBY CURRENT	ALARM CURRENT
XF6 Series Fire Control Panel	Qty 1 x 90 mA _____mA	Qty 1 x 102 mA _____mA
7830F-R Fire Command Annunciator	Qty _____ x 84 mA _____	Qty _____ x 108 mA _____
Relay Outputs (ON)	Qty _____ x 3 mA _____	Qty _____ x 3 mA _____
Switch Grounds (ON)	Qty _____ x 7 mA _____	Qty _____ x 61 mA _____
Active Zones	Qty _____ x 7 mA _____	Qty _____ x 7 mA _____
NAC Zones	Qty _____ x mA _____	Qty _____ x mA _____
2-Wire Smoke Detectors	Qty _____ x mA _____	Qty _____ x mA _____
263LTE Seriex Cellular Communicator	Qty _____ x 12 mA _____	Qty _____ x 12 mA _____
1100XH Wireless High Power Receiver	Qty _____ x 45 mA _____	Qty _____ x 61 mA _____
860 Relay Output Module (one relay active)	Qty _____ x 20 mA _____	Qty _____ x 20 mA _____
All four relays active	83 mA _____	83 mA _____
865 Class A or B Notification Module	Qty _____ x 16 mA _____	Qty _____ x 51 mA _____
866 Class B Notification Module	Qty _____ x 27 mA _____	Qty _____ x 46 mA _____
867 LX-Bus Class B Notification Module	Qty _____ x 18 mA _____	Qty _____ x 52 mA _____
7830F-R Fire Command Annunciator	Qty _____ x 84 mA _____	Qty _____ x 108 mA _____
630F Remote Fire Command Center	Qty _____ x 38 mA _____	Qty _____ x 55 mA _____
7070/7170 Thinline/7070A Aqualite Annunciator	Qty _____ x 43 mA _____	Qty _____ x 52 mA _____
Active Zones (EOL Installed)	1 mA _____	Qty _____ x 1 mA* _____
7073/7173 Thinline/7073A Aqualite Annunciator	Qty _____ x 51 mA _____	Qty _____ x 60 mA _____
Active Zones (EOL Installed)	1 mA _____	Qty _____ x 1 mA* _____
Copy Sub-Totals to next page _____ mA	Sub-Total Standby _____ mA	Sub-Total Alarm

*Based on 10% of active zones in alarm.

STANDBY BATTERY POWER CALCULATIONS	STANDBY CURRENT	ALARM CURRENT
710 Bus Splitter/Repeater Module	Qty _____ x 19 mA _____	Qty _____ x 19 mA _____
711/711S Zone Expansion Module Active Zone (EOL Installed)	Qty _____ x 7 mA _____ Qty _____ x 1 mA _____	Qty _____ x 7 mA _____ Qty _____ x 1 mA* _____
714 Zone Expansion Module Active Zones (EOL Installed)	Qty _____ x 4 mA _____ Qty _____ x 1 mA _____	Qty _____ x 4 mA _____ Qty _____ x 2 mA* _____
714-8, 714-16 Zone Expansion Module Active Zones (EOL Installed)	Qty _____ x 12 mA _____ Qty _____ x 1 mA _____	Qty _____ x 12 mA _____ Qty _____ x 1 mA* _____
715 Zone Expansion Module Active Zones (EOL Installed) 2-Wire Smokes	Qty _____ x 4 mA _____ Qty _____ x 2 mA _____ Qty _____ x .1 mA _____	Qty _____ x 4 mA _____ Qty _____ x 34 mA* _____ Qty _____ x 18 mA _____
715-8, 715-16 Zone Expansion Modules Active Zones (EOL Installed) 2-Wire Smokes	Qty _____ x 12 mA _____ Qty _____ x 2 mA _____ Qty _____ x .1 mA _____	Qty _____ x 12 mA _____ Qty _____ x 34 mA* _____ Qty _____ x 18 mA _____
716 Output Expansion Module Active Form C Relays	Qty _____ x 4 mA _____	Qty _____ x 4 mA _____ Qty _____ x 17 mA _____
2W-BLX, 2WT-BLX Smoke Detectors	Qty _____ x 9 mA _____	Qty _____ x 21 mA* _____
COSMOD2W Module	Qty _____ x 27 mA _____	Qty _____ x 104 mA*# _____
COSMO-2W Smoke and CO Detectors	Qty _____ x .6 mA _____	Qty _____ x 30 mA*# _____
572 Indicator LED	Qty _____ x 12 mA _____	Qty _____ x 12 mA _____
Aux. Powered Devices on Terminals 7 and 11 Other than Annunciators and LX-Bus Modules	_____mA	_____mA
Sub-Totals this page	Sub-Total Standby _____ mA	Sub-Total Alarm _____mA
Sub-Totals from previous page	Sub-Total Standby _____ mA	Sub-Total Alarm _____mA
*Based on 10% of active zones in alarm	Total Standby _____ mA	Total Alarm _____mA
# For systems that are not Central Station monitored, multiply alarm current by 12.		

Total Standby _____ mA x number of Standby Hours needed _____= _____ mA-hours

Total Alarm _____ mA x number of Alarm Hours needed _____ = _____ mA-hours

UL 864 requires 5 minutes (.0833 hours) in Alarm Total _____ mA-hours

Add 10% for battery derating = _____ Amp-hrs Required

[1] Based on 10% of active zones in alarm.

[2] For systems that are not central station monitored, multiply alarm current by 12.

* Where h = hours of alarm. For example, a 15 minute alarm = 0.25 h.

Standby Battery Selection

To choose the type and number of batteries needed for 24 hours of standby power based on the Amp Hours Required calculation, perform the following:

1. Select the desired standby hours required from the table below: 24 hours.
2. Select the desired battery size: Model 368 (12 VDC 5.0 Ah), Model 369 (12 VDC 7 Ah), Model 365 (12 VDC 9 Ah), Model 366 (12 VDC 18 Ah).
3. Select a Max. Ah Available number that is just greater than the number calculated in Amp Hours Required.
4. Install the number of batteries shown in the corresponding No. of Batteries required column.

For listed installations, batteries can be installed in a DMP Model 349, 350 or 352S enclosure and all wiring shall run through conduit. The enclosure shall be installed to the left of the XF6 Series enclosure to ensure Battery and Auxiliary wire separation.

24 Hours of Standby Power*

5.0 Ah Batteries		7 Ah Batteries		7.7 Ah Batteries		9 Ah Batteries		18 Ah Batteries	
Max. Ah Available	No. of Batteries	Max. Ah Available	No. of Batteries	Max. Ah Available	No. of Batteries	Max. Ah Available	No. of Batteries	Max. Ah Available	No. of Batteries
8	2	6	1	6	1	8	1	16	1
12	3	12	2	13	2	16	2	32	2
16	4	18	3	20	3	24	3	48	3**
20	5	24	4	27	4	32	4		
24	6	31	5	34	5	40	5		
28	7	37	6	41	6				
32	8	43	7						
36	9								
40	10								

*48 hours is the typical battery recharge time for any of the Number of Batteries shown in this section.

** Two 18 Ah batteries with two 7 Ah batteries.

If the Amp Hours Required calculation is greater than any Max. Ah Available number shown on a table, then add power supply(s) to power some system devices allowing the Amp Hours Required calculation to be reduced. See the 710 Bus Splitter/Repeater Installation Guide (LT-0310).

LX-Bus Expansion

There are five 12 VDC LX-Bus headers near the bottom of the panel:

- LX500 provides zones 500-599 (XF6 Series)
- LX600 provides zones 600-699 (XF6-500 Series only)
- LX700 provides zones 700-799 (XF6-500 Series only)
- LX800 provides zones 800-899 (XF6-500 Series only)
- LX900 provides zones 900-999 (XF6-500 Series only)

Note: The XF6 does drops power to the LX-Bus during a sensor reset.

Wireless Bus Expansion

The Wireless Bus (XBUS) header provides connection for the 1100X or 1100XH Wireless Receiver. The XBUS provides up to 500 wireless zones numbered 500-999. Refer to the 1100X Wireless Receiver Install Guide (LT-1822) or the 1100XH Wireless Receiver Install Guide (LT-1823) for complete information.

- XF6-100 provides up to 100 zones
- XF6-500 provides up to 500 zones

Wireless Bus LEDs

The two LEDs, located above the XBUS header, indicate data transmission and receipt. The left LED flashes green to indicate the panel is transmitting data. The right LED flashes yellow to indicate the panel is receiving data.

Ethernet Connection

The ETHERNET connector on the XF6 Series Series panel allows you to connect directly to an Ethernet network using a standard Cat 5 cable. The ETHERNET connector supports 100 Mbps full duplex operation and the maximum impedance is 100 Ohms.

Ethernet LEDs

The two LEDs located on the top edge of the connector indicate network connection. The right Link LED (green) lights to indicate a valid receive connection from the host network. The Activity LED (yellow) lights when connected to a 100 Mbps network and is off when connected to a 10 Mbps network connection.

RESET and TAMPER Headers

RESET Header

The RESET header is used to reset the panel. To reset the panel when installing the system, place the jumper across both RESET pins before applying power to the panel. After connecting the AC and battery, remove the reset jumper.

To reset the panel while the system is operational, install the reset jumper without powering down the system. Remove the reset jumper after one or two seconds.

After resetting the panel, begin programming within 30 minutes. Otherwise, you must reset the panel again to enter the PROG menu.

TAMPER Header

The TAMPER header is designed to connect to a tamper switch with a tamper harness. One or more tamper switches can be mounted inside the panel enclosure to supervise unauthorized removal or opening of an enclosure.

AUX Output

Steady (Non-switched) 24 VDC Output

Supplies non-switched 24 VDC output to auxiliary devices. Terminal 6 is the ground reference for the aux circuit.

Annunciator Bus

The panel 12 VDC Annunciator Bus includes Terminals 7, 8, 9, and 10. You can connect up to fifteen supervised annunciators and multiple unsupervised annunciators to the panel. In addition to DMP annunciators, you can also connect any combination of zone expansion modules. Refer to the specific device installation sheet for the maximum number of Annunciator Bus devices. Refer to the LX-Bus section for more information about LX-Bus expansion.

Terminal 7 - RED

Supplies positive and regulated 12 VDC to power DMP LCD annunciators and zone expansion modules. Terminal 7 also supplies power for any auxiliary device. The ground reference for Terminal 7 is Terminal 10.

Current draw for all connected devices must not exceed the panel maximum current rating. See Power Supply in the Compliance Listing Guide (LT-2779) for maximum current in a fire listed application.

Terminal 8 - YELLOW

Receives data from annunciators and zone expansion modules. It cannot be used for any other purpose.

Terminal 9 - GREEN

Transmits data to annunciators and zone expansion modules. It cannot be used for any other purpose.

Terminal 10 - BLACK

The ground reference for DMP annunciators, zone expansion modules, and all auxiliary devices being powered by Terminal 7.

Programming (PROG) Connection

A 7830F-R Fire Command Annunciator comes pre-installed and is connected to the programming header of the XF6 Series panel.

Smoke Output

Switched 24 VDC Output

Supplies positive and regulated 24 VDC to power 4-wire smoke detectors and other powered devices. This output can be turned off by the user for 5 seconds using the Sensor Reset User Menu option to allow latched devices to reset. Terminal 12 is the ground reference for Terminal 11.

Current Rating

The total current draw of all devices powered from the panel must be included with Terminal 11 calculations and must not exceed the panel maximum current rating.

NAC Circuits

Terminals 13-16

Supplies two 24 VDC 2.5 Amp Class B NAC circuits. Requires 3.3k Ohm EOL resistor. See the Notification Appliance section in the Compliance Listing Guide (LT-2779) for wiring diagrams and a list of approved notification appliances.

Zones

Terminals 17-28

Zones 1 to 6 (Terminals 17 to 28) on the panel are 24 VDC powered zones. For programming purposes, the zone numbers are 1 through 6. See the Compliance Listing Guide (LT-2779) for a list of the compatible 2-wire smoke detectors. Do not mix detectors from different manufacturers on the same zone.

Caution: Performing a Sensor Reset momentarily drops power to the devices on zones 1-6. The panel views these zones as Open while power is absent.

When wiring powered zones for 2-wire smoke detectors, refer to the following specifications:

- **Maximum wire length**—3000 feet (18 AWG)
- **Maximum voltage**—28 VDC
- **Maximum normal standby current**—7.5 mA DC
- **Maximum line impedance**—100 Ohms
- **Maximum short circuit current**—63 mA

The voltage sensing Terminal measures the voltage across a 3.3k Ohm EOL resistor to ground. Use Model 309 3.3k Ohm resistors. Dry contact sensing devices can be used in series (normally-closed) or in parallel (normally-open).

TERMINAL	FUNCTION	TERMINAL	FUNCTION
17	Zone 1 positive	23	Zone 4 positive
18	Zone 1 negative	24	Zone 4 negative
19	Zone 2 positive	25	Zone 5 positive
20	Zone 2 negative	26	Zone 5 negative
21	Zone 3 positive	27	Zone 6 positive
22	Zone 3 negative	28	Zone 6 negative

Terminal 13-24 Specifications

Operational Parameters

Each protection zone detects three conditions: Open, Normal, and Short.

CONDITION	RESISTANCE ON ZONE	VOLTAGE ON POSITIVE TERMINAL
Open	Over 6600 ohms	Over 25.3 VDC
Normal	1650 to 6600 ohms	21.2 to 25.3 VDC
Short	Under 1650 ohms	Under 21.2 VDC

Protection Zone Parameters

Zone Response Time

A condition must be present on a zone for 500 milliseconds before it is detected by the panel. Ensure detection devices used on the protection zones are rated for use with this delay. Zones 1-6 can also be programmed for a fast response delay of 160 milliseconds.

OUTPUT 1	
Contact	**Color**
Normally Closed	Violet
Common	Gray
Normally Open	Orange

OUTPUT 2	
Contact	**Color**
Normally Closed	Violet with white stripe
Common	White with gray stripe
Normally Open	Orange with white stripe

Model 431 Output Wiring

Dry Contact Relay Outputs

The panel provides two programmable auxiliary SPDT relays when equipped with two DMP Model 305 relays in sockets OUTPUT 1 and OUTPUT 2 and a Model 431 Output Harness on the OUT1-OUT2 6-pin header. Each relay provides one SPDT set of contacts that can be operated by any of the functions listed below:

- Activation by zone condition—Steady, Pulsing, Momentary, and Follow
- Manual activation from the DMP LCD annunciator menu
- Communication failure
- Fire Alarm, Fire Trouble, or Supervisory

Contact Rating

The Model 305 relay contacts are rated for 1 Amp at 30 VDC (allows 0.35 power factor). You can connect auxiliary power to the Relay Output 1 common terminal by installing the gray harness wire to Terminal 7. Current draw for all connected devices must not exceed the panel maximum current rating.

Model 431 Output Harness Wiring

The relay contacts are accessible by installing the DMP 431 Output Harness on the 6-pin OUT1 OUT2 header. OUTPUT 2 uses the top three prongs, and OUTPUT 1 uses the bottom three prongs. The relay contacts must be connected to devices located within the same room as the panel. The wire harness colors and contact locations are shown below:

Annunciator Outputs

The four programmable annunciator outputs can be programmed to indicate the activity of the panel zones or conditions occurring on the system. Annunciator outputs do not provide voltage. Instead, they switch voltage from another source to ground. The outputs can respond to any of the conditions listed in Dry Contact Relays. Maximum voltage is 30 VDC at 50 mA.

Model 300 Harness Wiring

Access the open collector outputs by installing DMP 300 Harness on the 4-pin OUTPUTS header. The output locations are shown below. For listed applications, devices connected to the outputs must be located within the same room as the panel.

Model 860 Relay Module

Connect a Model 860 Relay Module to the OUTPUTS header on the panel to provide relays for outputs 3-6. Use these relays for electrical isolation between the alarm panel and other systems or for switching voltage to control various functions. Power is supplied to the relay coils from a single wire connected to the panel auxiliary power Terminal 7.

The module includes one relay and provides three additional sockets for expansion of up to four relays. Mount the 860 inside the panel enclosure using the 3-hole pattern and plastic standoffs. Refer to the 860 Module Install Sheet (LT-0484) as needed. Relay Contact Rating is 1 Amp at 30 VDC (allows 0.35 power factor).

ACCESSORY DEVICES

PANELS	
XF6-100	XF6-100 Fire Control Panel with Network and Cell
XF6-500	XF6-500 Fire Control Panel with Network and Cell
ANNUNCIATORS	
7830F-R Fire Command Annunciator	32-character touchscreen Fire Command annunciator.
630F LCD Remote Fire Command	32-character LCD Fire annunciator with keyswitch.
POWER SUPPLIES	
505-12 Power Supply	A power-limited, switching power supply that meets UL, CSFM, NFPA and FCC compliance standards. The 505-12 is rated for 12 VDC at 5 amps maximum.
505-12LX Power Supply	A power-limited, switching power supply that meets UL, CSFM, NFPA and FCC compliance standards. 505-12LX is rated for 12 VDC at 5 amps maximum. Provides two independent Class B NAC outputs. Each power supply includes a transformer, battery leads and a metal enclosure.
PS12-5 Power Supply	A power-limited, switching power supply that meets UL, CSFM, NFPA and FCC compliance standards. The PS12-5 is rated for 12 VDC at 5 amps maximum.
BATTERIES AND BATTERY ACCESSORIES	
Batteries	365 9.0 Ah 12 VDC 366 18.0 Ah 12 VDC 368 5.0 Ah 12 VDC 369 7.0 Ah 12 VDC
349 Medium Enclosure	Medium panel enclosure with dual-size knockouts, lock and key, and module mounting holes. Dimensions: 13.5″ W × 11.66″ H × 3.55″ D
350 Large Enclosure	Holds three 7.7 Ah batteries or two 18.0 Ah batteries and module mounting holes. Dimensions: 17.5″ W × 13.5″ H × 3.5″ D
352S Extra Large Battery Enclosure	Features five adjustable shelves to hold batteries for standby power. Dimensions: 14.5″ x 32″ x 4″ (lid adds 0.5″ on each side)
Battery Harnesses	318 Standard battery leads 318R Ring-style battery leads 318T Terminal-style battery leads 318EXT 48″ Battery lead extension
CELLULAR COMMUNICATORS	
263LTE-V/381-2 LTE Verizon Cellular Communicator	Provides cellular communication for XF6 Series panels.
263LTE-A/381-2 LTE AT&T Cellular Communicator	Provides cellular communication for XF6 Series panels.
263LTE-FN/381-2 FirstNet Cellular Communicator	Provides cellular communication for XF6 Series panels over the FirstNet network.
263LTE-2	Provides cellular communication for XF6 Series panels from Verizon and AT&T carriers.
EXPANSION MODULES	
710 Bus Splitter/Repeater	Expands the number of devices and length of wire on the LX-Bus or Annunciator Bus. Also provides wire connections for up to three additional LX-Bus circuits.
711 Single Zone Expander	Single-zone expander with screw terminal connections. Includes EOL resistors.
711S Single Zone Expander	Single-zone expander with flying lead connections. Includes EOL resistor.
714 Zone Expansion Module	Expander with four 5 VDC Class B zones and rotary-switch addressing. Includes EOL resistors and 12-wire harness.
714-8 Zone Expander	Terminal block installation for eight Class B non-powered fire devices. Includes enclosure with lock and key plus 1k EOL resistors.
714-16 Zone Expander	Terminal block installation for 16 Class B non-powered fire devices. Includes enclosure with lock and key plus 1k EOL resistors.
715 Zone Expansion Module	Provides 4 Class B zones (12 VDC) for two-wire smoke detectors and other powered or non-powered devices. Includes 3.3k EOL resistors and 12-wire harness.

715-8 Zone Expander	Provides eight powered zones (12 VDC) supporting two-wire smoke detectors or other fire alarm initiating devices. Includes red 340 enclosure and EOL resistors.
715-16 Zone Expander	Provides 16 powered zones (12 VDC) supporting two-wire smoke detectors or other fire alarm initiating devices. Includes red 340 enclosure and EOL resistors.
716 Output Expander	Provides 4 programmable Form C (SPDT) relays and four open collector annunciator outputs. Use the outputs for remote zone and system annunciation or environmental control applications. Harness included.
AUXILIARY MODULES	
860 Relay Output Module	Provides electrical isolation between the alarm panel and other systems or for switching voltage to control various functions.
865 Class A/B Notification Module	Provides Class A or B supervision for ground faults, opens, and shorts on notification appliance circuits.
866 Class B Notification Module	Provides one 5 Amp Class B notification circuit for supervising listed, polarized notification devices such as bells, strobes, and horns.
867 Class B LX-Bus Notification Circuit Module	Provides one supervised Class B circuit for 12 VDC or 28 VDC notification devices. The 867 connects to the LX-Bus and supervises Ground Fault, Open and Short conditions on the notification circuit.
PULL STATIONS	
850 Series Pull Stations	Single or dual action pull stations with gold-plated SPST contacts and terminal strip connections.
SMOKE/HEAT DETECTORS	
2W-BLX Conventional Smoke Detector	A photoelectric detector that includes an addressable single point module for connection to the LX-Bus of the XF6 Series panels.
2WT-BLX Conventional Smoke/ Heat Detector	A photoelectric detector that includes an addressable single point module with a restorable, built-in fixed temperature thermal detector and is capable of sensing a temperature higher than 135 °F.
MISCELLANEOUS ACCESSORIES	
370 Lightning Suppressor	Provides lightning supression for any DMP or other manufacturer's panel.
861 Power Distribution Module	Provides multiple auxiliary power terminals and additional annunciator and/or LX-Bus connectors for a clean installation. Maximum current handling capacity of 8 amps on power and ground in terminals.
Wiring harnesses, cables, and tampers	300 Four-wire Harness 303 Silence/Reset Push Button 305 Plug-in Output Relay 306 Tamper Harness 307-S Screw-On Tamper Switch 374 Surge Voltage Suppressor 3012 Clip-On Tamper Switch 381 Coax Extension Cable 431 Output Harness
MONITORING CENTER RECEIVERS	
SCS-1R Network Enabled Receiver	Network Enabled Receiver compatible with central station receivers that accept Standard CID, DD or DMP Serial 3 messaging.
SCS-VR Virtual Receiver	Software-only solution that runs on a server for network IP and cellular communications.
DMP WIRELESS	
1100XH High-Power Receiver	Provides additional transmit and receive amplification for improved performance at greater distance or harsh building environments. 1100XHE-W features 128-bit AES encryption.
1100R Repeater	Provides increased communication range. Up to eight repeaters can be installed on a wireless system. This model includes the 376L power supply. 1100RE-W features 128-bit AES encryption.
1100T/1100TF Translator	Allows upgrades of non-DMP systems with one way, low frequency, wireless transmitters to DMP.
1103 Universal Transmitter, External Contact	Includes an internal magnetic reed switch, an on board terminal block for external contact wiring, and an end-of-line resistor. Features 128-bit AES encryption.

1164 Wireless Smoke Detector with Synchronized Sounder	Causes sounders to initiate when any fire zone is tripped on the panel, which also triggers any other wired strobes and strobe horns. The cadence is dictated by the panel, synchronizing the alarm tones of all wired and wireless devices.
1164NS-W Wireless Smoke Detector with No Sounder	Has the same functionality as the 1164 Smoke Detectors without the built-in sounder. The 1164NS is intended for use in installations with existing sounder/ notification devices.
1168 Wireless Smoke/CO/Low Temp Detector	Provides multi-criteria smoke sensing using a combination of photoelectric heat, IR flame flicker, carbon monoxide (CO) indicators, and a low temp sensor. The 1168 reports carbon monoxide, fire alarms, and low temp to the control panel.
1183-135 Heat Detector	The 1183-135F is a fixed temperature detector that reacts to heat by responding to the fixed 135 degree temperature setting. The 1183-135R model is a combination rate-of-rise and fixed temperature detector that detects heat quickly by responding to a rapid temperature increase or a fixed 135 degree temperature setting.
1184 Carbon Monoxide Detector	A 3 V battery-powered wireless carbon monoxide (CO) detector that provides early warning when the electrochemical sensing technology measures carbon monoxide levels in the air. The transmitter can send alarm, trouble, tamper and low battery condition messages to the alarm panel.

PROGRAMMING

XF6 Programming Information

This guide provides programming information for the DMP XF6 Series panel. Before starting to program, we recommend that you read through the contents of this guide.

In addition to this guide, you should also read and be familiar with the XF6 Series Compliance Listing Guide (LT-2779).

Internal Programmer

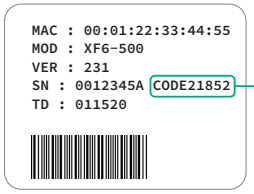
The panel contains all of its programming information in an on-board processor and does not require an external programmer. You can perform all programming tasks through a 32-character DMP alphanumeric annunciator set to address one, or through Dealer Admin.

Getting Started

Before starting to program the panel, make sure the panel is properly grounded and AC and battery power is applied to the appropriate panel terminals. All wiring connections and grounding instructions are detailed in this guide.

Accessing the User Menu

XF6 Series panels ship with a unique five-digit default master code that is used to access the user menu for the first time. This code can be modified or deleted. In order to revert back to the default code 99, use the initialize code option found in panel programming. To access the User Menu:



1. Press the **CMD** key until **MENU? NO YES** displays.
2. Select **YES**. The annunciator displays **ENTER CODE**. Enter your user code. You can now scroll down through the list of system features available to you.

PROGRAMMER LOCKOUT CODES

The panel allows you to enter the programming function without entering a lockout code. We recommend, however, that you install a Lockout Code to restrict programming to only those persons your company authorizes. You can do this by using the SET LOCKOUT CODE feature in the Programmer. The Lockout Code restricts any unauthorized panel programming.

After resetting the panel and entering the code 6653, the annunciator displays PROGRAMMER. Press **CMD** to advance through the programming sections until SET LOCKOUT CODE displays (after STOP). Press any select key or area. The annunciator displays ENTER CODE: – . Enter a 3 to 5 digit Programmer Lockout Code and press **CMD**. The annunciator displays ENTER AGAIN followed by ENTER CODE: –. Enter the same 3 to 5 digit code a second time and press. The annunciator displays CODE CHANGED. The panel does not accept a 5-digit Lockout Code higher than 65535.

Before accessing programmer functions enter the new code number. Write the Lockout Code number down and keep it in a secure place with access limited to authorized persons only. Lost Lockout Codes require the panel to be sent back to DMP for repair. You may cancel a Lockout Code by entering 00000 at the Set Lockout Code command.

Reset Timeout

The panel has a feature that requires you to enter the Programmer within 30 minutes of resetting the panel. After 30 minutes, if you attempt to program by entering the 6653 (PROG) code, the annunciator displays: RESET PANEL. You must reset the panel and enter the program code then begin programming within the next 30 minutes.

If you are already in the Programmer and do not press any keys on the programming annunciator for 30 minutes, the panel terminates programming. All data entered up to that time is not saved unless you run the Stop routine.

Use the Stop routine to exit panel Programming. Ensure the annunciator displays “PLEASE WAIT” to save all programming changes entered.

POWER UP

When the panel is powered up after an AC power failure, any zone transitions are not recognized for 60 seconds. Normal zone processing resumes at the end of the 60 seconds.

Annunciators

DMP offers multiple annunciators in a variety of styles that provide programming capabilities. Each annunciator and its operation are shown and described in the following sections.

Special Keys

The following special keys/areas are common to all DMP annunciators.

COMMAND (CMD) Key

Pressing **CMD** allows you to go forward through the programming menu and through each step of a programming section. As you go through the programming, the annunciator display shows any current programming already stored in the panel memory. If no change is required for an option, press **CMD** to advance to the next step.

CMD is also used to enter information into the panel's memory such as phone numbers or zone names. Press **CMD** after entering information.

Back Arrow (<—) Key

Use the Back Arrow key to back up one step while programming. The Back Arrow key is also used when an error is made while entering information. Press the Back Arrow key once to erase the last character entered.

Select Keys or Areas

The top row of keys are called the select areas on the 7830F-R Fire Command Annunciator. Each time you need to press a select key or area, the annunciator displays the function or options above one of the keys or in the select area. Displaying choices above individual select keys or in select areas allows them to be used for many different applications. For example, you can enter AM or PM when programming the automatic test time or answer **YES** or **NO** for a system option.

During programming, the select keys or areas also allow you to change information currently in panel memory by pressing the appropriate select key or area under or on the display. You then enter the new information using the annunciator data entry digit keys.

When there are more than four response options available, press **CMD** to display the remaining options. Pressing the Back Arrow key allows you to review the previous four choices.

The select keys or areas are also used for choosing a section from the programming menu. Press any select key or touch the select area when the programming section name you want displays.

On Wireless, Thinline and Aqualite annunciators, when instructed to press the first select key, press the far left select key; the second select key is the second from the left; third select key is second from the right; and the fourth select key is the far right key.

On Graphic Touchscreen Annunciators, when instructed to press the first select key, touch select area 1; the second select key touch select area 2; third select key touch select area 3; and the fourth select key touch select area 4.

Entering Alpha Characters

Some options during programming require you to enter alpha characters. To enter an alpha character, press or touch the key that has that letter written below it. The annunciator displays the number digit of the key. Next, press the select key or area that corresponds to the location of the letter under the key. Pressing a different select key or area changes the letter. When another digit key is pressed, the last letter displayed is retained and the process starts over.

Annunciator Displays Current Programming

Each programming option displayed at the annunciator shows the currently selected option in the panel memory. These options are either shown as a number, a blank, or a NO or YES. To change a number or blank to a new number, press any select key or touch any select area. The current option is replaced with a dash.

Press the number(s) on the annunciator you want to enter as the new number for that option. It is not necessary to enter numbers with leading zeros. The panel automatically right justifies the number when you press **CMD**.

To change a programming option that requires a NO or YES response, press the select key or touch the select area for the response not selected.

For example, if the current option is selected as **YES** and you want to change it to **NO**, on Thinline or Aqualite annunciators press the third select key. On Graphic Touchscreen annunciators touch select area 3. The display changes to **NO**. Press **CMD** to display the next option.

BEGIN A PROGRAMMING SESSION

1. Momentarily place the Reset jumper over both of the RESET pins to reset the panel.
2. Enter the code **6653** (**PROG**) and press **CMD**.
3. The annunciator displays: **PROGRAMMER**.

INITIALIZATION

INITIALIZATION

Initialization

This function allows you to clear selected parts of the panel program back to the factory defaults.

INIT ALL? NO YES

Clear All Memory

NO leaves existing programming intact then displays Clear All Codes.

YES clears all memory then displays Reset Panel. Reset the panel by shorting the reset jumper and re-enter programming mode to continue.

CODES? NO YES

Clear All Codes

NO leaves existing codes intact.

YES clears the user code and user profile memory and assigns user code number 99 to the highest user number.

EVENTS? NO YES

Clear Display Events Memory

NO leaves existing event memory intact.

YES clears the events memory.

ZONES? NO YES

Clear Zone Information

NO leaves existing zone information intact.

YES clears the zone information for all zones.

OUTPUTS? NO YES

Clear Output Information

NO leaves existing output information intact.

YES clears all programmed output names and any output cutoff assignment.

COM/RMT? NO YES

Clear Communication and Remote Options

NO leaves existing communication and remote options intact.

YES reset communication and remote options programming to factory defaults.

DEFAULTS? NO YES

Set to Factory Defaults

NO leaves existing panel programming intact.

YES sets the panel's programming back to factory default selections and clears all Device Setup, System Options, and Remote Options programming from the panel. Selecting YES does not clear the panel's event memory, zone, user code information, or schedules.

RMT KEY? NO YES

Initialize Remote Key

NO leaves existing remote key intact.

YES clears the remote key from the system.

COMMUNICATION

COMMUNICATION

Communication

Configure the communication options for the panel. The information you program varies with the Communication Type you select.

ACCOUNT NO: **12345**

Account Number

The Account Number is a 1 to 5 digit number used to identify which panel is sending a message. Enter the account number sent to the SCS-1R or SCS-VR Receiver. The default is **12345**.

The range of valid account numbers for a panel is 1 to 65535. For accounts of four digits or less, do not enter leading zeros.

PATH: **-**

Communication Path

Up to eight communication paths may be programmed. Each path is designated as a primary or backup communication route. Path 1 is always Primary but other paths may be programmed as additional primary or backup.

Each primary path establishes a new path group. A path group is made up of the primary path and its subsequent backup paths. Typical communication takes place on the primary path with backup paths being used only when the primary path fails or when the backup path is programmed to duplicate messages. There is no option to backup path 8.

COMM TYPE: **NONE**

NONE NET CELL

Communication Type

Specifies the communication method the panel uses on this path to report system events to DMP SCS-1R or SCS-VR Receivers. Default is **NONE** for Path 1-8.

NONE - For local systems. Selecting NONE ends communication programming.

NET - Network communication using the panel onboard network connection. The DMP Network/Output reporting format is transmitted over a data network to the SCS-1R or SCS-VR Receiver.

CELL - This option allows communication over the cellular network.

PATH TYPE: **BACKUP**
PRIMARY BACKUP

Path Type

The Path Type defines if the path is Primary or Backup. Because Path 1 is Primary, this option only displays for paths 2-8. Default is **BACKUP**.

If the Primary Communication Type is CELL, then the backup Communication Type can only be NET.

TEST RPT: **YES**
NO **YES** DEFER

Test Report

Test Report determines if test reports (Automatic Recall Test OK or Unrestored System) are sent on this path. Reports are sent according to the programmed Test Time. Default is **YES**. Select YES to allow the programmed test report to be sent on the path currently being programmed.

Select DEFER to not send a test report if the panel communicates any message to the receiver within the time set in Test Time.

Select NO to not send test reports on this path.

TEST TIME:
0:00 AM

Test Time

Use this option to select the time of day for Test Reports. Select the hour, minute and AM/PM. Enter 0:00 AM to disable this feature. Default is **0:00 AM**.

CHECKIN
NO **YES**

Check In

This option displays if the COMM TYPE is NET or CELL. Check-in reports are a method of supervising the panel for communication with the receiver. The default is **YES**.

CHECKIN
ADP3

Select **ADP3** (Adaptive 3) for a backup path to adapt using a 3 minute Check-in and Fail Time if the primary path becomes unavailable. This option also indicates a Communication Trouble (S10) if the cell tower is unavailable for 3 minutes.

CHECKIN MINS: **58**

When **YES** is selected, enter the number of minutes between check-in reports, from 2 to 240 for NET or 4 to 240 for CELL.

FAIL MINS: **60**

Fail Time

This option displays if CHECKIN is set to YES. Entering a FAIL TIME allows the receiver to miss multiple check-ins before logging that the panel is missing. The maximum fail time is 240 minutes. For example, if CHECKIN is 10 and FAIL TIME is 30, the receiver only indicates a Panel Not Responding after 30 minutes. The FAIL TIME must be equal to or greater than the CHECKIN time. Default is **60** for NET and CELL.

RECEIVER IP
0.0.0.0

Receiver IP

This option displays if the Communication Type is NET or CELL. Enter the Receiver IP address where the panel sends network messages. The Receiver IP Address must be unique and cannot be duplicated on the network. Enter all 12 digits and leave out the periods. For example, enter IP address 192.168.0.250 as 192168000250. The periods display automatically.

RECEIVER PORT
2001

Receiver Port

Enter the receiver port number. Valid range is 1 to 65,535. Default is **2001**.

ADVANCED? NO YES

Advanced Programming

Select **YES** to enter the Advanced Programming menu for the communication path currently being programmed. Selecting NO ends programming of the current communication path and takes users back to the Communication Path option to program a secondary path.

FAIL TEST HRS: **0**

Fail Test Hours

This option sets the frequency for a Backup or Adaptive path to send a test report when the closest previous path fails within its path group.

If Fail Test Hours is set to 0, test reports are sent only according to Test Report programming. Range is 0 to 24 hours. Default is **0**.

PROTOCOL: **TCP**

Protocol

This option displays only if Communication Type is NET.

Select TCP to communicate over the network using TCP protocol. Select UDP to communicate using UDP protocol. Default is **TCP**.

RETRY SECONDS: **6**

Retry Seconds

This option displays only when Communication type is NET.

Enter the number of seconds (between 6 and 15) the panel should wait before retrying to send a message to the receiver if an acknowledgment was not received. The panel retries as many times as possible for a period of one minute before sending a network trouble message. The default Retry Time is **6 seconds**.

DUPLICATE ALARMS
NO YES

Duplicate Alarms

This option displays for BACKUP paths. If Yes is selected, the current backup path duplicates all alarms occurring on its group primary path. Default is **NO**.

SEND PATH INFO:
NO YES

Send Path Information

This option displays for each path and if YES, each panel message includes path information such as path number, communication type, and path type. Default is **NO**.

NETWORK OPTIONS

Network Options are provided to define the network configuration for the panel. This information will be used during communication of messages via network.

IP addresses and port numbers may need to be assigned by the network administrator. When entering an IP, Gateway, or Subnet Mask address be sure to enter all 12 digits and leave out the periods.

DHCP NO **YES**

DHCP

If the panel uses a dynamic IP address select YES. When set to YES, the panel operates using DHCP and does not use the Local IP Address number. When the DHCP option is set to NO, the panel uses the IP address entered in Local IP Address. The default value for DHCP mode is **YES**.

LOCAL IP ADDRESS
192 .168.0.250

Local IP Address

Enter the local IP address for the panel. The Local IP Address must be unique and cannot be duplicated. The default local IP address is **192.168.0.250**.

GATEWAY ADDRESS
192 .168.0.1

Gateway Address

Enter the local gateway address. The Gateway IP Address is needed to exit your local network. The default gateway address is **192.168.0.1**.

SUBNET MASK
255.255.255.000

Subnet Mask

Enter the local subnet mask assigned to the panel. The default subnet mask address is **255.255.255.000**.

DNS SERVER
192.168.0.1

DNS Server

Enter the IP address of the DNS (Domain Name System) used by the panel to resolve domain names into IP addresses. The default address is **192.168.0.1**.

On systems with hardwired network connection, the DNS address can be changed even if the panel has DHCP enabled.

DEVICE SETUP

DEVICE SETUP

Device Setup

This section allows you to define the panels physical configuration. You can install and address up to fifteen supervised devices on the Annunciator Bus.

DEVICE NO: -

Device Number

Enter the address of the device you are programming. After you program each option for the first device, repeat these programming steps for each additional device. Programmable devices are FIRE and EXPANDER. The available addresses are 1 - 16 on the panel Annunciator Bus.

* UNUSED *

Device Name

A device name must be given to each device in the system. To add a device name, press any select key or area. The default device name (DEVICE XX) displays. Select **CMD** to accept the default name or press any select key or area to enter a new name up to 32 alphanumeric characters. Press **CMD**.

To remove a device from the system, delete the device name by pressing any select key or area, then press **CMD**. The panel automatically programs the name as * UNUSED *.

TYPE: **FIRE**
FI EXP

Device Type

This section allows you to select a device type for the selected device number.

FIRE - A 7830F-R Fire Command Annunciator or 630F Remote Annunciator. See Fire Device Remote Programming in the XF6 Series Compliance Guide (LT-2779) for instructions on how to allow remote panel programming.

EXPANDER - A Zone Expansion Module.

REMOTE OPTIONS

REMOTE OPTIONS

Remote Options

This section allows you to enter the information needed for Remote Command/Remote Programming operation.

CELL APN:
SECURECOM400
-

Cell APN

Enter the first APN (Access Point Name). This allows an access point for cellular communication and is used to connect to a DNS network. The APN may contain two lines of 16 characters to equal 32 characters. Default is set to **SECURECOM400**.

ENTRE CONNECTION: **NONE**

Entré Connection

This option displays if the panel has network or cellular capability. Select NET to allow a dedicated network connection with Entré. Options are NONE or NET. Default is **NONE**.

ENTRE INCOMING TCP PORT: **2011**

Entré Incoming TCP Port

This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the incoming Entré connection. The programming port identifies the port used to communicate messages to and from the Entré software. This port cannot be the same port as programmed in Network Programming Port. The default Programming Port setting is 2011.

ENTRE IP

Entré IP Address

This option displays only if NET is chosen for the Entré connection. Enter the Entré IP address where the panel sends network messages. The Entré IP Address must be unique and cannot be duplicated on the network. Enter all 12 digits and leave out the periods. For example, enter IP address 192.168.0.250 as 192168000250. The periods display automatically. Default is **0.0.0.0**.

ENTRE OUTBOUND TCP PORT: **2001**

Entré Outbound TCP Port

This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the outbound Entré connection. The programming port identifies the port used to communicate messages to the Entré software. Default is **2001**.

ENTRE BACKUP IP
-

Entré Backup Connection

This option displays if NET is chosen for the Entré connection. Enter the backup address where the panel sends network messages if the first Entré connection fails. The Entré connection must be unique and cannot be duplicated on the network. If the backup connection is NET, enter all 12 digits and leave out the periods. The periods display automatically. Default is **0.0.0.0**.

ENTRE BACKUP TCP PORT: **2001**

Entré Backup TCP Port

This option displays only if NET or CELL is chosen for the Entré connection. Enter the backup programming port number for the outbound Entré connection in case the connection to the primary IP fails. Default is **2001**.

ENTRE REPORTS

Entre Reports

This option displays only if NET is chosen for the Entré connection. Choose which types of system reports are sent to Entré. Press CMD to view all of the Entré report options. Choose YES to enable zone, user code, or supervisory message reports. All Entré reports default to **YES**.

ZONE: NO **YES**

Zone Reports

Zone reports send changes in the status of active zones. Includes the zone number, name, type, the action (alarm, trouble, bypass, etc.), and user number (if applicable). If performing a Walk Test, Zone Verify and Zone Fail messages are sent for each zone.

USER CMDS NO **YES**

User Command Reports

Sends user code changes, schedule changes, and events.

SUPV MSG: NO **YES**

Supervisory Reports

Sends system monitor reports, such as AC and battery, and system event reports. Supervisory Reports also sends the following reports:

- Alarm Bell Silenced

ENTRE CHECKIN MINUTES: **0**

Entré Checkin

Select the rate at which check-in messages are sent over the Entré connection. Select 0 (zero) to disable check in messages. Range is 0, 3-240 minutes. Default is **0**.

ENTRE PASSPHRASE **-**

Entré Passphrase

To enable encryption enter an 8 to 16-character Passphrase using alphanumeric characters. If you leave the Passphrase blank, the panel communicates with Entré, but the data is not encrypted. The Passphrase is **BLANK** by default.

INTEGRATOR CONNECTION: **NONE**

Integrator Connection

This option displays if the panel has network or cellular capability. Select NET to allow a dedicated network connection with the integrator. Options are NONE or NET. Default is **NONE**.

INTGRTR INCOMING TCP PORT: **8011**

Integrator Incoming TCP Port

This option displays only if NET is chosen for the integrator connection. Enter the programming port number for the incoming connection. The programming port identifies the port used to communicate messages to and from the integrator software. This port cannot be the same port as programmed in Network Programming Port. The default Programming Port setting is **8011**.

INTEGRATOR IP 0.0.0.0

Integrator IP Address

This option displays only if NET is chosen for the integrator connection. Enter the integrator IP address where the panel sends network messages. The integrator IP Address must be unique and cannot be duplicated on the network. The periods display automatically. Default is **0.0.0.0.**

INTGRTR OUTBOUND TCP PORT: **8001**

Integrator Outbound TCP Port

This option displays only if NET is chosen for the integrator connection. Enter the programming port number for the outbound connection. The programming port identifies the port used to communicate messages to the integrator software. Default is **8001**.

INTGRTR BACKUP IP -

Integrator Backup Connection

This option displays if NET or CELL is chosen for the integrator connection. Enter the backup address where the panel sends network messages if the first integrator connection fails. The connection must be unique and cannot be duplicated on the network. If the backup connection is NET, enter all 12 digits and leave out the periods. For example, enter IP address 192.168.0.250 as 192168000250. The periods display automatically. Default is **0.0.0.0.**

INTGRTR BKUP TCP PORT: **8011**

Integrator Backup TCP Port

This option displays only if NET is chosen for the integrator connection. Enter the backup programming port number for the outbound connection in case the connection to the primary IP fails. Default is **8011**.

INTGRTR REPORTS

Integrator Reports

This option displays only if NET is chosen for the integrator connection. Choose which types of system reports are sent to the integrator. Press CMD to view all of the integrator report options. Choose YES to enable zone, user code, or supervisory message reports. All reports default to **YES**.

ZONE: NO **YES**

Zone Reports

Sends changes in the status of active zones. Includes the zone number, name, type, the action (alarm, trouble, bypass, etc.), and user number (if applicable). If performing a Walk Test, Zone Verify and Zone Fail messages are sent for each zone.

USR CMDS: NO **YES**

User Command Reports

Sends user code changes, schedule changes, and events.

SUPV MSG: NO **YES**

Supervisory Reports

Sends system monitor reports, such as AC and battery, and system event reports. Supervisory Reports also sends the • Alarm Bell Silenced * report.

INTGRTR PASSPHRASE
-

Integrator Passphrase

To enable encryption enter an 8 to 16-character Passphrase using alphanumeric characters. If you leave the Passphrase blank, the panel communicates with the integrator, but the data is not encrypted. The Passphrase is **blank** by default.

APP KEY:

App Key

Enter the 8-digit App Key obtained in your Dealer Settings tab at dealer.securecomwireless.com.
This option is a security feature of the Virtual Annunciator iPhone/Android App used only when your Dealer Settings at dealer.securecomwireless.com have EASYconnect set as the Communication Type.
This communication option is only available for panels with onboard network and is used to eliminate the need for a static IP address programmed in Network Options. To enter a new App Key, press any select key or area and enter any combination of 8 digits. Press **CMD**.

SYSTEM OPTIONS

SYSTEM OPTIONS

System Options

This section allows you to select system-wide parameters.

CRS ZONE TM: 4

Cross Zone Time

Enter the time allowed between zone faults. When zones are cross zoned, the same zone or a second cross zoned zone must fault within this time in order for an alarm report for both zones to be sent to the receiver. If the cross zone time expires without the second zone faulting, only a zone fault from the first zone is reported. Cross-zone time can be from 4 to 250 seconds. Entering 0 (zero) disables this function. Default is **4**.

RETARD DLY: 10

Zone Retard Delay

Enter the retard time assigned to Fire and Supervisory zones. The retard delay only functions when the zone is shorted. The zone must remain shorted for the entire length of the Retard Delay before being recognized by the panel. The Zone Retard Delay can be from 0 to 250 seconds. Entering a 0 (zero) disables this function. Default is **10**.

PWR FAIL HRS: 1

Power Fail Delay

This option tracks the duration of an AC power failure. When the AC power is off for the length of the programmed delay time, an AC power failure report is sent to the receiver. The delay time can be from 1 to 15 hours. Entering a 0 (zero) sends the power failure report after a 15-second delay. The default setting is **1**.

SWGRBYPS TRIPS: 2

Swinger Bypass Trips

Enter the number of times (0-6) a zone can go into an alarm or trouble condition within one hour before being automatically bypassed. Bypassed zones are reset during a sensor reset. Entering 0 (zero) disables this function. Default is **2**. A Bypass Report is sent to the receiver if Bypass Reports is YES.

REQUEST TIME CHG
NO **SCS** SCW

Time Changes

This option allows the panel to request automatic time changes from SecureCom Wireless® or the DMP SCS-1R or SCS-VR Receiver on Path 1. For the SCS receiver to send time changes, program it to send time changes and receive time change updates from the network automation computer at least every 24 hours. The default is **SCS**.

Select **NO** to not request time changes.

Select **SCS** to request time changes from the SCS-1R or SCS-VR Receiver.

Select **SCW** to request time changes from SecureCom Wireless.

DST?
NO **YES**

This option only displays if you selected SCW. The default is YES.

Select **NO** to not observe daylight saving time.

Select **YES** to observe daylight saving time.

HRS FROM GMT: 6

Hours From GMT

When time zone is programmed YES, enter the number (0-23) that indicates the difference between the Greenwich Mean Time (GMT) and where the panel is located. The default is **6**.

GMT	CITY/TIME ZONE
0	London, Monrovia, Lisbon, Dublin, Casablanca, Edinburgh
1	Cape Verde Island, Azores
2	Mid-Atlantic, Fernando de Noronha
3	Buenos Aires, Georgetown, Brasilia, Rio de Janeiro
4	Atlantic Time (Canada), Caracas, La Paz, Santiago
5	Eastern Time (US, Canada) Bogota, Lima, Arequipa
6	Central Time (US, Canada), Mexico City, Saskatchewan
7	Mountain Time (US, Canada), Edmonton
8	Pacific Time (US, Canada), Tijuana
9	Alaska
10	Hawaii*
11	Midway Island, Samoa
12	Fiji, Marshall Island, Wellington, Auckland, Kwajalein, Kamchatka

GMT	CITY/TIME ZONE
13	New Cadelonia
14	Guam, Sydney
15	Tokyo, Seoul
16	Hong Kong, Singapore
17	Bangkok, Hanoi
18	Dhaka, Almaty
19	Islamabad, Karachi
20	Abu Dhabi, Kazan
21	Moscow, Bagdad
22	Eastern Europe
23	Rome, Paris, Berlin

*Arizona, Hawaii, American Samoa, Guam, Puerto Rico, and the Virgin Islands do not observe daylight savings time.

LATCH SV NO **YES**

Latch Supervisory Zones

Selecting YES latches supervisory zones on the annunciator display until the sensor reset operation is performed. Selecting NO automatically clears the alarm from the annunciator display when the supervisory zone restores to a normal condition. Default is **YES**.

PROG LANGUAGE

PRI LANG: **ENGLISH**

Programming Menu Language

Press **CMD** to select the programming language.

The current primary programming language displays. The default language is English. Press a Select key to change the primary programming language.

Select the primary programming language.
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

SEC LANG: **NONE**

The current secondary programming language displays. Selecting a secondary language allows the installer to view programming in English, Spanish, or French. When the Programming Menu is accessed, the installer is prompted to choose the programming display language. If SEC LANG: is set to NONE, the option to choose a language does not display. To select a secondary language, press the select key or area below the language. Default is **NONE**.

Select the secondary programming language.
NONE = No secondary language options are displayed
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

USER LANGUAGE
PRI LANG: **ENGLISH**

User Menu and Status List Language

Press **CMD** to select User Language.

The current primary user language displays. The default language is English. Press any select key or area to change the primary User language.

Select the primary user language.
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

SEC LANG: **NONE**

The current secondary user language displays. Selecting a secondary user language allows the user to view the User Menu and Status List text in English, Spanish, or French. When the User Menu is accessed, the user is prompted to choose the display language. Status List text displays in the selected language until another language is chosen. If SEC LANG: is set to NONE, the option to choose a language does not display. To select a secondary language, press the select key or area below the language. Default is **NONE**.

Select the secondary user language.
NONE = No secondary language options are displayed
ENG = English (ENGLISH)
SPN = Spanish (ESPANOL)
FRN = French (FRANCAIS)

WIRELESS
HOUSE CODE: 0

House Code

When using a DMP wireless system, enter a house code between 0 and 50. Default is **0** indicating no wireless system is being used. The DMP house code identifies the panel, DMP receiver, and DMP transmitters to each other. The DMP receiver listens for transmissions that have the programmed house code and transmitter serial number. The transmitters may take up to two minutes to learn the new house code and continue operation.

DETECT WIRELESS
JAMMING: NO **YES**

Detect Wireless Jamming

This option displays when the House Code entered is for a DMP 1100 Series Wireless system (1-50). When enabled and the wireless receiver detects jamming, a jammed trouble displays in the Status List and is sent to the central station receiver. Select YES to enable jamming messages to display in the Status List. Select NO to disable jamming messages. Default is **YES**.

1100 ENCRYPTION
NONE ALL BOTH

Wireless Encryption

Encryption allows the panel to communicate with encrypted 1100 Series wireless devices. Select ALL to to allow encryption for all the wireless devices programmed into the panel. Select BOTH to allow encryption for selected wireless devices programmed into the panel. Select NONE to don't allow encryption for wireless devices programmed into the panel. The default is **NONE**.

1100 PASSPHRASE
****

Enter Passphrase

ENTER PASSPHRASE displays if you select ALL or BOTH for wireless encryption. In order for the panel to support encrypted 1100 Series wireless devices, a passphrase must be entered. The passphrase must be an 8-digit hexadecimal number which determines the system's encryption key.

TRBL AUDIBLE: ANY

Trouble Audible Annunciation

This option allows you to choose when trouble audibles will annunciate from the annunciator. This also includes AC Trouble for Fire Annunciators, Battery Trouble, Panel Tamper, and other System Troubles.
Press any top row key to select the annunciator buzzer annunciation method for wireless low battery and missing messages. Select ANY to enable annunciation anytime. Select DAY to enable annunciation except during sleeping hours (9 PM to 9 AM). Select MIN (minimum) to annunciate only Fire and Fire Verify zones during daytime hours (9 AM to 9 PM). Default is **ANY**.

INSPECTION
REMINDER: NONE

REMINDER
NONE 3MO 6MO 1YR

Inspection Reminder

This feature allows you to enable an inspection reminder for 3 months, 6 months, or 1 year. Press any top row key to set an inspection reminder. Select NONE to not set a reminder. Select 3MO to set a reminder for 3 months. Select 6MO to set a reminder for 6 months. Select 1 YR to set a reminder for 1 year.

BELL OPTIONS

BELL OPTIONS

Bell Options

This section allows you to program the panel bell output functions.

BELL CUTOFF: **15**

Bell Cutoff Time

Enter the maximum time from 0 to 99 minutes the Bell Output remains on. Enter 0 (zero) to provide continuous bell output. The default is **15 minutes**.

NAC 1:
DMP GEN SS WHLK

NAC 1 Sync Protocol

If NAC 1 is programmed to use DMP, it will follow the BELL ACTIONS programmed. Otherwise, it will perform the sync protocol selected for Fire only. Programming options are DMP, GENTEX (GEN), System Sensor (SS), and Wheelock (WHLK) Default is **DMP**.

NAC 2:
DMP GEN SS WHLK

NAC 2 Sync Protocol

If NAC 2 is programmed to use DMP, it will follow the BELL ACTIONS programmed. Otherwise, it will perform the sync protocol selected for Fire only. Programming options are DMP, GENTEX (GEN), System Sensor (SS), and Wheelock (WHLK) Default is **DMP**. Default is **DMP**.

SELECTIVE
SILENCE? NO YES

Selective Silence

This prompt will only display when either NAC 1 or NAC 2 is programmed to something other than DMP. Selective Silence allows the bell and strobe function of the field device to be turned off separately. Default is **YES**.
If Selective Silence is set to No; the Alarm Silence would then turn off both strobes and bells/horns tied to NAC1/2 using the sync protocol.

If Selective Silence is set to Yes; the Alarm Silence would turn off Bells/Horns only; and Sensor Reset would then turn off the Strobes after the Alarm silence has occurred.

BELL OUTPUT: 0

Bell Output

Enter the output/Favorite number when needed to follow the panel Bell Output operation for all action and off conditions. Enter 0 (zero) to disable.

BELL ACTION . . . . .

Bell Action

This section defines the type of Bell Output for zone alarms. Press **CMD** to display the default Bell Output for each zone type. Press any select key or area and enter S for a Steady Bell Output, P for a Pulsed output, T for a Temporal Code 3 output, 4 for a Temporal Code 4 output, and N for no Bell Output (default). Enable this feature to latch a bell action to a annunciator. Trouble conditions do not activate the Bell Output.

FIRE TYPE: **T**

Fire Bell Action

Defines Bell Action for Fire Type zones. The default is **T**.

SUPRVSRY TYPE: **N**

Supervisory Bell Action

Defines Bell Action for Supervisory Type zones. The default is **N**.

CO TYPE: **4**

Carbon Monoxide (CO)

Defines Bell Action for Carbon Monoxide (CO) Type Zones. The default is set at **4**.

OUTPUT OPTIONS

OUTPUT OPTIONS

Output Options

This section allows you to program panel output options. The panel provides two Form C relays (1 and 2) and four switched ground (open collector) outputs numbered 3 to 6. Expand the system up to 500 additional relay outputs using any LX-Bus on the panel, or multiple 716 Output Expander Modules. In addition, 45 wireless outputs are available when using the 1100XH Series wireless receiver.

Select from the following output numbers:

- 1 to 6 — Onboard panel outputs
- 500 to 999 — LX-Bus output, Relay output, Zone expansion output
- G1 to G20 — Output group

* The response time of a wireless output is the time it takes for a wireless output to activate once the panel event occurs. You determine whether a wireless output is a slow or fast response based on the output number assigned. A slow response output number extends battery life, but response time may be up to 15 seconds. A fast response output number responds within 1 second, but reduces battery life. Refer to the specific wireless output installation guide to determine battery life. Output response times are programmed in **Output Information**.

CO OUTS: - - - - - -

Cutoff Output

Outputs 1 to 6 can be entered here to turn off after a time specified in CUTOFF TIME. To disable this option, press any select key or area to clear the display then press **CMD**. The Cutoff Output displays dashes when no outputs are selected.

CUTOFF TIME: 0

Output Cutoff Time

If a Cutoff Output (1-6) is assigned, enter a Cutoff Time of 1 to 99 minutes for the output to remain on. Enter 0 (zero) for continuous output.

COM FAIL OUT: 0

Communication Trouble Output

The Communication Trouble Output also turns on when NET is selected as the primary communication method and NET communication fails after one minute. When NET communication is restored the Communication Trouble Output automatically turns off. To manually turn the output off, select Off for the output number in the User Menu Outputs On/Off section. Enter 0 (zero) to disable this output.

FIRE ALR OUT: 0

Fire Alarm Output

Enter the Output/Favorite number to turn on when a fire type zone is placed in alarm. The output is turned off using the Sensor Reset option while no additional fire type zones are in alarm. Enter 0 (zero) to disable. This output is not compatible with Cutoff Outputs.

FIRE TRB OUT: 0

Fire Trouble Output

Enter the output number to turn on when a fire type zone is placed in trouble, when a supervisory type zone is placed in trouble, or when any system monitor (AC, Battery) is placed in trouble. The output turns off when all fire and supervisory type zones, or system monitors are restored to normal. Enter 0 (zero) to disable this output. This output is not compatible with Cutoff Outputs. This output can be connected to a lamp, LED, or buzzer using the DMP Model 716 Output Expansion Module.

DVC FAIL OUT: 0

Device Fail Output

Enter the output number to turn on when an addressed device fails to respond to polling from the panel. A Missing Device report is sent to the receiver and is stored as an event in the panel. The output is turned off when the device responds to polling or is removed from programming in the system. Enter 0 (zero) to disable this output and LX-Bus™ device fail reporting to the receiver. If any addressed device is unsupervised, this output cannot be used.

SNSR RST OUT: 0

Sensor Reset Output

Enter the output/Favorite number to turn on when a Sensor Reset is performed at a annunciator. The output turns off automatically 5 seconds later. This function can be used to reset smoke detectors that are operated by an external power supply through a Model 716 Output Expander Module. Enter 0 (zero) to disable this output.

SUPV ALM OUT: 0

Supervisory Alarm Output

Enter the output/Favorite number to turn on when a supervisory zone type is placed into an alarm. The output turns off when all supervisory type zones are restored to normal. Enter 0 (zero) to disable. Default is **0**.

AC FAIL OUT: 0

AC Fail Output

This output turns on when the panel detects no AC. The output turns off when AC power is detected. Default is **0**.

OUTPUT OPTIONS
CO ALRM OUT: XXX

Carbon Monoxide Alarm Output

This output turns on any time a Carbon Monoxide Zone (CO) is placed in alarm. The output is turned off using Sensor Reset option while no additional CO type zones are in alarm.

OUTPUT INFORMATION

OUTPUT NUMBER

Output Number

Enter an output number. Entry range is 1 to 6, 500-599, G01-G20.
In order for wireless output troubles to display at a annunciator, the annunciator address must be specified at the Auxiliary 1 Zones option in the Status List programming.

OUTPUT NAME

Output Name

This section allows you to define a 32 character alphanumeric name for any output numbers. See the XF6 Users Guide (LT-2792) Appendix for browser operation.

OUTPUT REAL-TIME STATUS **NO** YES

Output Real-Time Status

Selecting YES allows Real-Time Status reports of a hardwire device, such as Output ON, OFF, PULSE, or TEMPORAL to be sent using PC Log reports. Selecting NO disables Real-Time Status for this output device. Default is **NO**.

OUTPUT GROUPS

OUTPUT GROUPS

Output Groups

This function allows you to assign outputs to groups. Output groups can be assigned to other areas of programming such as Output Options or Alarm Action of Zone Information, just like single outputs are assigned. This allows the entire group of outputs to turn on and off as required by the programming option.

GROUP NO: -

Group Number

Enter a group number from 1 to 20. Up to 20 different groups may be assigned.

GROUP NAME X X

Group Name

The group name displays. To change the default name, press any select key or area then enter up to 32 characters for the group name. Press **CMD** to enter the outputs to be assigned to the group.

OUTPUT NO:

Output Number

Enter the Output number. Entry range is 1 to 6, 500-599, G01-G20 (outputs). The maximum number of outputs that can be assigned to a specific group is eight.
An output group may be assigned as one of the output numbers in another output group.
See the XF6 Users Guide (LT-2792) Output Group section for additional information.
Output groups 1 to 20 are available for installation applications such as special lighting, etc.

ZONE INFORMATION

ZONE INFORMATION

Zone Information

Zone Information allows you to define the operation of each protection zone used in the system. All protection zones are programmed the same way.

ZONE NO: -

Zone Number

Enter the number of the zone you intend to program. XF6-100 panels have onboard zones 1-6 and LX-500-599 available. XF6-500 panels have onboard zones 1-6 and LX-500-999 available. Available zone numbers are shown in the table below.

PANEL	PROGRAMMING ZONE NUMBER
Onboard	1-10
KEYPAD BUS	**PROGRAMMING ZONE NUMBER**
1	11-14
2	21-24
3	31-34
4	41-44
5	51-54
6	61-64
7	71-74
8	81-84
9	91-94
10	101-104
11	111-114
12	121-124
13	131-134
14	141-144
15	151-154
16	161-164
1100 SERIES WIRELESS	**PROGRAMMING ZONE NUMBER**
1144 Series Key Fob	400-449
LX-BUS	**PROGRAMMING ZONE NUMBER**
LX-Bus 500	500-599
LX-Bus 600	600-699
LX-Bus 700	700-799
LX-Bus 800	800-899
LX-Bus 900	900-999

Press **CMD** to enter a zone name.

* UNUSED *

Zone Name

Zone names can have up to 32 alphanumeric characters. A name must be given to each zone in the system. The name can display at the annunciators. A zone that is not part of the system must be marked unused.

To add a zone name to the system, press any select key or area and then enter up to 32 characters for the new zone name. Press **CMD** to continue.

To mark a zone unused, delete the old name by pressing any select key or area, then press **CMD**. The programmer automatically programs the name as * UNUSED *. If you have already cleared Zone Information during Initialization, the zones is marked * UNUSED *.

ZONE LOCATION

Zone Location

This feature is optional and allows you to specify a zone location, separate from the zone name. Enter a descriptive location for the zone, such as 2nd Floor East Wing. The zone location is only sent to the monitoring center to help dispatchers identify where an alarm is triggered and does not display on the keypad. You can enter up to 32 characters for the zone location name.

ZONE TYPE: FIRE

Zone Type

The panel contains 4 default zone types for use in configuring the system. These zone types provide the most commonly selected functions for their applications. All zone types can be customized by changing the options listed below.

The Zone Type defines the panel response to the zone being opened or shorted. This is called the Alarm Action. There are up to 7 possible alarm action responses depending on the zone type and any restrictions it may have. See the Zone Type chart in the Appendix. When you assign a Zone Type to a zone, automatic alarm actions are made.

FI SV FV CO

To enter a new Zone Type, press any select key or area. The display lists all of the available Zone Types.

Fire, Fire Verify, Supervisory, Carbon Monoxide (CO) zones are 24-hour zones.

FIRE BELL OUT: 0

Fire Bell Output

This output (1 to 6, 500-599, G01-G20 for XF6-100 panels, 1 to 6, 500-999, G01-G20 for XF6-500 panels) is turned on any time a Fire, Supervisory , Fire Verify, or Carbon Monoxide (CO) zone is placed in alarm. The output is turned off by any of the following actions:

- When the User Menu Alarm Silence function is performed.
- When a valid user code is entered to silence the bell.
- When the Silence key is pressed on the 630F Remote Fire Command Center.
- Using the Outputs On/Off function in the User Menu.
- The expiration of the Bell Cutoff time.

This output can be connected to a lamp, LED, or buzzer using the DMP Model 716 Output Expansion Module.

EXPANDER SERIAL #:

Expander Serial Number

If using a 711S Zone Expansion Module, enter the 10 character serial number found on the module. Press **CMD** to move to the next prompt.

Already In Use displays when the serial number is already programmed for another zone. The programmed zone number displays.

NEXT ZN? NO YES

Next Zone

Select YES to terminate zone programming. The display returns to Zone Number, allowing you to enter a new zone number. Select NO to make alterations to the Alarm Action for a zone.

To program zones for wireless operation, select NO at the NEXT ZONE - NO YES option. The WIRELESS NO YES option displays. If the zone you are programming is intended for wireless devices, select YES. Select NO to continue programming non-wireless zones in the 500 to 999 range.

- Zones 500 through 599 can be programmed for DMP 1100 Series Wireless on an XF6-100 Series panel
- Zones 500 through 999 can be programmed for DMP 1100 Series Wireless on an XF6-500 Series panel

ZONE INFORMATION
WIRELESS? **NO** YES

Wireless

Select YES to program this zone as a DMP wireless zone. You must program the wireless House Code prior to adding DMP wireless zones to the system.
See House Code programming in System Options. Default is **NO**.

TRANSMITTER
SERIAL#: XXXXXXXX

Serial Number Entry

Enter the eight-digit serial number found on the DMP wireless device.

Already In Use displays when the serial number is already programmed for another zone. The programmed zone number displays.

TRANSMITTER
CONTACT: XXXXXXXX

Contact

Transmitter Contact displays if the serial number entered is for an 1103Universal Transmitter. Press any select key or area to select the contact.

TRANSMTR CONTACT
INT EXT

Select INT to use the internal reed switch contacts. Select EXT to connect an external device to the 1103 terminal block. Default is **INTERNAL**.

By allowing both of the transmitter contacts (INT and EXT) to be used at the same time, two zones may be programmed from one transmitter. When using both contacts, you must use consecutive zone numbers. The same serial number is used for both zones.

TRANSMTR CONTACT
1 2 3 4

The same serial number is used for all four contacts. Select the contact number to program. When using the contacts, you must use consecutive zone numbers. Default is **Contact 1**.

ALREADY IN USE
ZONE NUMBER: XXX

Already In Use message displays when the Contact is already programmed for another zone. The programmed zone number displays.

ZONE INFORMATION
NORM OPN NO YES

When EXT is selected as the Contact type, external devices connected to the 1103 terminal block, select NO to use normally closed (N/C) contacts. Select YES to use normally open (N/O) contacts. Default is **NO**.

TRANSMITTER
SUPRVSN TIME: 240

Supervision Time

Press any select key or area to select the supervision time required for the wireless zone. Press CMD to accept the default time. Default is **240 minutes**.

Refer to the Wireless Check-in and Supervision Time Definitions section of the Appendix for supervision information.

SELECT MINUTES:
0 3 60 **240**

Press the select key or area under the required number of minutes. The transmitter must check in at least once during this time or a missing condition is indicated for that zone. 1100 Series transmitters automatically checkin based on the supervision time selected for the wireless zone, no additional programming is needed. If two zones share the same transmitter, the last programmed supervision time is stored as the supervision time for both zones. Zero (0) indicates an unsupervised transmitter.

When the panel is reset or a receiver is installed or powered down and powered up, the supervision timer restarts for all wireless zones.

ALARM ACTION . . . .

Alarm Action

This option allows you to change any Zone Type standard definitions. When the Zone Type is specified, the Alarm Action for that zone is stored in memory.

OUTPUT NO: **0**

Output Number

You can specify any of the Relay Outputs on the panel to be activated by a zone condition (1 to 6, 500 to 999 if Model 716 used, G1 to G20). The output can be activated regardless of the report to transmit or whether or not the zone is programmed as local.

To enter an output number, press any select key or area followed by the output number. Press **CMD**.

OUTPUT: **STEADY**

Output Action

Output Action allows you to assign an output action to the relay: Steady, Pulse, Momentary, or Follow. Default is **STEADY**.

STD PLS MOM FOLW

STEADY - The output is turned on and remains on until an output cutoff time expires, or the output is reset from the annunciator menu.

PULSE - The output alternates one second on and one second off.

MOMENTARY - The output is turned on only once for one second.

FOLLOW - The output is turned on and remains on while the zone is in an off normal, or bad condition. When the zone restores, the output is turned off.

SWGR BYP **NO** YES

Swinger Bypass

Selecting YES allows the zone to be swinger bypassed by the panel according to the specifications programmed in Swinger Bypass Trips and Reset Swinger Bypass. The Bypass condition displays in the annunciator Status List. Selecting NO disables swinger bypassing for this zone.

If within one hour, a zone trips the total number of times as specified in Swinger Bypass Trips, the panel bypasses it until one of the following conditions occur;

- The zone remains normal for one hour and the Reset Swinger Bypass is YES.
- A sensor reset is performed.

If the zone trips fewer than the specified times within one hour, the bypass trip counter returns to 0 (zero) and the process must be repeated.

A report of the swinger bypass is sent to the receiver if Bypass Reports is YES.

RETARD **NO** YES

Zone Retard Delay

When you select YES, the zone operates with the zone retard delay. The retard functions only in zone short conditions. If you select NO, the zone operates without a retard delay.

The zone must remain shorted for the full length of the retard delay before the panel recognizes its condition. If you select NO, the zone operates without a retard delay.

FAST RSP **NO** YES

Fast Response

Select YES to provide a zone response time of 167ms. Select NO to provide a normal zone response time of 500ms. Zones 500 to 999 have a fixed response time and do not display this option.

FIRE PANEL SLAVE INPUT: **NO** YES

Fire Panel Slave Input

This option is available on Fire Zones (FI) only and allows a fire zone the ability to provide slave communication operation for a separate fire alarm control panel. If YES, this zone will transmit a restoral immediately when restored by the fire panel being monitored. A sensor reset is not required to generate the restoral message.

If NO, this zone will operate as a standard fire type zone and a sensor reset is required before the zone will return to normal. Default is **NO**.

STOP

STOP

Stop

Save Programming

When any panel programming is changed, the stop routine must be run and “PLEASE WAIT” must display on the annunciator in order to save the programming changes.
At the STOP option, pressing any select key or area allows you to exit the Programmer function of the panel. When selected, the panel performs an internal reset and exits the programmer.

The STOP routine causes the following conditions to occur:

- All 1100 Series DMP Wireless transmitters are reset to NORMAL
- The panel Status List is cleared and all programming changes are saved

Missing LX-Bus™ Modules Displayed

The Programmer includes a feature following the STOP routine that displays the name of any programmed LX-Bus module not currently connected to the panel.

Power Up

When the panel is powered up after an AC power failure, any zone transitions are not recognized for 60 seconds. Normal zone processing resumes at the end of the 60 seconds.

SET LOCKOUT CODE

SET LOCKOUT CODE

Set Lockout Code

Pressing **CMD** at the STOP option displays SET LOCKOUT CODE. This allows you to program a code that is then required to gain access to the panel internal Programmer through the annunciator. You can change this code at any time to any combination of numbers from three to five digits long. You do not need to enter leading zeros when using the lockout code. Initializing the panel does not clear a Lockout Code. Lockout Codes can be changed through Dealer Admin and Virtual Annunciator.

Once you have changed the code, it is important to write it down somewhere and store it in a safe place. Lost Lockout Codes require the panel to be sent back to DMP for repair. You may cancel a Lockout Code by entering 00000 at the Set Lockout Code command.

Lockout Code restriction

Do not set a Lockout Code higher than 65535.

APPENDIX

Diagnostics Function

The panel contains a Diagnostics function that allows you to test the communication integrity of the LX-Bus™, identify individual zones, and also display the present electrical state of any zone. The Diagnostics function also allows you to test the integrity of the cellular communication, and cellular signal.. To use Diagnostics, reset the panel, enter the Diagnostics code 2313 (DIAG), and press **CMD**.

Test LX-Bus

This function allows you to test the ability of the panel to communicate with zone and output expander modules connected to the LX-Bus circuits.

To continue, press any select key or area. The annunciator displays LX-BUS:. Using the digit keys, enter the LX-Bus number, 1 to 5, to test that LX-Bus circuit. The annunciator now displays ADDRESS: - . Enter a 2-digit LX-Bus device address and press **CMD**. When testing LX-Bus devices, enter only the addresses to which the modules have been set. Press any select key or area when TEST LX-BUS displays.

A device address is not the same as a zone number. If you are testing 714 or 715 Zone Expander Modules, which each contain four zones, the device address is the first zone number. When the panel polls a 714 on the LX-Bus, it recognizes it as a four zone device and does not poll the remaining three zones. The 714 module internally polls the remaining zones and transmits any status changes to the panel. This greatly reduces the amount of time it takes the panel to poll all LX-Bus devices.

The annunciator next displays TESTING . . . STOP during the device testing. At any time, you can select STOP to end polling. The panel records the number of no responses from the device. If all polls are received back by the panel correctly, the annunciator displays 00000/65535 FAIL.

If one or more polling attempts fail, the annunciator displays * * * * */65535 FAIL with the * representing the number of failed polling attempts. A display of 65535/65535 FAIL indicates a problem with the interface card or its LX-Bus wiring such as a bad or broken wire, harness not properly connected, or excessive noise or distance. It can also mean that a zone number was entered that did not match a device address. Press the Back Arrow key to enter a new device address or press **CMD** to exit the TEST LX-BUS.

Zone Finder

The second Diagnostic function is the Zone Finder. Press **CMD** to display ZONE FINDER. This function allows you to identify individual zones on devices connected to the LX-Bus of an interface card, the panel, or any zones on the Annunciator Bus. To use ZONE FINDER, press any select key or area. The display changes to FAULT ZONE. The next zone on the system that changes from a normal to an open or shorted state is displayed as ZONE NO: * * *. To continue, press the Back Arrow key.

Zone State

Press **CMD** to display the third Diagnostic function: ZONE STATE. This function allows you to enter any zone number and check its current electrical state (Normal, Open, or Shorted). Press any select key or area. The display changes to ZONE NUMBER: _ . Enter in the zone number you want to check and press **CMD**. The panel displays the current state of the zone as NRML (normal), OPEN, or SHORT.

LX-Bus Status

The fourth Diagnostic function is the LX-BUS STATUS. This function allows the panel to poll all devices connected to the LX-Bus of an interface card and check for any Overlapped, Missing, or Extra addresses. Below is a description of each status item:

Overlap - An overlap occurs when one device address is the same as any of the last three zones on another 714 or 715. The overlap feature cannot determine when two devices have the same address.

Missing - A missing occurs when a zone between 500 and 999 has been programmed in ZONE INFORMATION and no device with that zone address has been installed on the LX-Bus. To correct the problem, check your zone programming and zone expansion module addressing.

Extra - A device is installed on the LX-Bus but none of its zones are programmed into the system.

MAC Address

Short for Media Access Control address. This hardware address uniquely identifies each network node. Not to be confused with an IP address, which is assignable. In the Diagnostics function, the MAC address is the panel on-board network hardware address. Press any select key or area to display the panel MAC address. Press **CMD** to view the next option.

Serial Number

This number is the network communicator serial number. Reference this number for communicator date-of-manufacture, hardware version, etc. Press any select key or area to display the Serial Number. Press **CMD** to view the next option.

Loader Version

This display is for factory use only. Press any select key or area to display the factory Loader Version. Press **CMD** to view the next option.

Current Flash

This option displays Flash 1 or Flash 2 indicating which physical flash chip the panel is currently using. Press select key or area to display the current flash information. Press **CMD** to view the next option.

Carrier Selection

This option is only available when DualSIM is active. In the event that remote connectivity is unavailable, carrier options can be manually switched on the keypad. To select a single carrier, press **ATT** or **VZW**. To use DualSIM operation, select **BOTH**.

Signal Strength Test

If DualSIM is activated, the panel automatically selects a primary carrier (AT&T or Verizon) when the panel is turned on. Once the primary is established, the panel tests the signal strength of the primary every hour. During the test, if the primary's signal drops by 10db or more, the panel then tests the backup carrier. If the backup has a stronger signal, it becomes the new primary. Every five hours, the panel automatically tests the backup's signal strength to determine the stronger signal.

Communication Status

This option tests the individual components of cellular or network communication. The displayed results are shown below.

Note: If DualSIM is active, an option to select **ATT** or **VZW** appears before testing proceeds. Select one of the carriers to test it.

Cellular Results:

Successful Display	Failure Display
MODEM OPERATING	NO MODEM FOUND
IDENTIFIED	NO SIM CARD
TOWER DETECTED	NO TOWER
REGISTERED	NOT REGISTERED

SIGNAL: ▌▌▌▌▌▌▌
CONTINUE? NO YES

This displays the cellular signal strength of the nearest tower for the SIM card carrier. The ▌'s represent the signal strength 0-7. Select YES to continue through the remaining component tests. Select NO to stop testing and return to the COMM STATUS option.

Successful Display	Failure Display
CONNECTED	CONNECT ERROR
	NOT ACTIVATED
COMM PATH GOOD	NO ACK RECEIVED

Network Results:

Successful Display	Failure Display
LINK OK	LINK ERROR
DHCP OK	DHCP ERROR
GATEWAY FOUND	NO GATEWAY
DEST FOUND	NO DESTINATION
COMM PATH GOOD	NOT CONNECTED NO ACK RECEIVED

Exiting the Diagnostics program

Press **CMD** until STOP displays. Press any select key or area. The keypad returns to the Status List display.

Using the Walk Test

The panel provides a walk test feature that allows a single technician to test the protection devices connected to zones on the system. Conduct the Walk Test within 30 minutes of resetting the panel. The Walk Test automatically ends if no zones are tripped for 20 minutes. TEST IN PROGRESS displays at all annunciators When five minutes remain, TEST END WARNING displays.

WALK TEST

Walk Test

To conduct the Walk Test, reset the control panel by momentarily placing a jumper on RESET. From the annunciator, enter the code 8144.
The annunciator displays WALK TEST for four seconds. If the system is monitored and the communication type is DD or NET, the system sends a System Test Begin report to the central station. After four seconds, the annunciator displays the zone type choices for testing.

FI SV CO

Zone Types

Select the zone type you want to test. An asterisk next to the zone type indicates the zone type chosen for testing. Press the select key or area again to deselect the zone type. When you have selected all the zone types you want for testing, press **CMD** to display the next Walk Test option.

FI (Fire zones) - Select FI to test hardwired fire zones. Includes all FI and FV zones.

SV (Supervisory zones) - Select SV to test hardwired supervisory zones. Includes all SV zones.

Carbon Monoxide (CO) - Select CO to test hardwires carbon monoxide zones.

During the Walk Test, trip each zone device or button on the system for 1 to 2 seconds.

WLS

WLS (Wireless Check-in Test) - Select WLS to automatically test wireless transmitter communications. Includes all wireless devices transmitters programmed for a supervision time of 0 (zero).

BELL NO YES PULS

Bell Action

This option selects the bell output action when a zone under test faults. This option allows the panel bell, and/or fire bell to turn ON and then OFF each time a zone is tripped (opened or shorted).

NO **-** Select NO for no bell output action during Walk Test.
YES **-** Select YES to turn on any bell output for 2 seconds during Walk Test.
PULS **-** Select PULS to turn on any bell output for 1/4 second during Walk Test. Any LX-Bus device output turns on for 1.6 seconds due to the polling cycle.

TRIPS: XXX END

Trip Counter For Walk Test

Once in the Walk Test, walk around and trip each protective device. Continue tripping devices until the entire system is tested.
With each zone trip during the Walk Test:

- Annunciator display increments each time a selected zone is opened or shorted
- The annunciator buzzes for two seconds
- The panel sounds the alarm bells as programmed in Bell Action
- Each time a FI, FV, or SV zone trips, a Sensor Reset occurs.

If ENHANCED ZONE TEST is selected as YES:

A Verify message is sent at the time the zone trip occurs instead of at the end of the Walk Test.
For FI, FV, SV, or CO zone types, the Verify message is sent at the initial trip.

For all other zone types, the Verify message is sent when the zone restores. This allows the Central Station to count the number of devices per zone.

END **-** Select END to stop the Walk Test. When the Walk Test ends or a 20-minute time-out expires, a final Sensor Reset occurs. The System Test End message is sent to the receiver along with Verify and Fail messages for each zone under test. Faulted zones then display on the annunciator.

IN PROGRESS XMIN
CHECKIN: CC/TT END

Trip Counter For DMP Wireless Check-in Test (WLS)

Displays the number of wireless zones that automatically communicate a supervisory check-in message. The test will run for a total of 5 minutes. During the 5 minutes the transmitters are being tested multiple times. At the end of the 5 minutes the results will be displayed. A timer will be displayed at the annunciator to indicate that the test is in progress. In order for a transmitter to pass it must have checked in 3 or more times. The results will display which transmitters have failed the test.

- The number of zones that check in. (CC in the example).
- The total number of wireless zones programmed for supervision that should check in. (TT in the example).

CKIN:XXX/ZZZ END

END - Select END to stop the Wireless Test. When the test ends or a 5-minute time-out expires, normal wireless zone processing returns. If all transmitters check-in, both numbers match within five (5) minutes. If a transmitter has multiple zones (1101, 1114, etc.), all zones are included in the counts. Failed wireless zones display on the annunciator.

TEST END WARNING

Test End Warning

When five minutes remain on the 20 minute Walk Test timer, the annunciator displays TEST END WARNING. If no additional test zone trips occur, the test ends and a final Sensor Reset automatically occurs. The System Test End message is sent to the receiver along with Verify and Fail messages for each zone under Walk Test. Faulted zones then display on the annunciator.

ZONE: 10 -FAIL
SOUTH LOBBY

Failed Zones Display

For each zone that did not trip (failed), at least once during the Walk Test, all annunciators with matching Display Areas display the zone name and number and buzz for one second. Any selected (*FI *CO *SV) 24-hour zone that is faulted at the end of the Walk Test displays a trouble condition for that zone regardless of
the message programmed for the open or short condition of the zone and a zone trouble is sent to the receiver. Press **CMD** to display the next failed zone.
For the Wireless Check-in Test, failed wireless zones display only on the annunciator. Zone Verify/Fail reports are not sent to the central station receiver for the wireless check-in test.

FIRE	**ON**	Fire zone alarm and Bell Output or Fire Bell Output is ON.
	OFF	Alarm Silence.
CO	**ON**	CO zone alarm and Bell Ouput are ON.
	OFF	Using Sensor Reset option while no additional CO type zones are in alarm.

Annunciator Speaker Operation

When using LCD Annunciators, the panel provides distinct speaker tones from the annunciator for Fire, Zone Monitor, and Prewarn events. The list below details the conditions under which the speaker is turned on and off for each event.

Wireless Check-in and Supervision Definitions

DMP 1100 Series Supervision Time Explained

The supervision time programmed for DMP 1100 Series wireless is the number of minutes that must elapse before a transmitter missing message is generated for a transmitter that is not sending its automatically generated supervision message. The supervision time is programmable to 3, 60, 240 minutes. Selecting 0 (zero) disables supervision time.

Zone Type Descriptions

This section describes applications for the default Annunciator and LX-Bus zone types in Zone Information programming.

FI (Fire zone)

Used for any type of powered or mechanical fire detection device. Typical applications are for smoke detectors, sprinkler flowswitches, manual pull stations, and beam detectors. Retard, cross zoning, and presignal options are available for the Fire zone type.

FV (Fire Verify zone)

Used primarily for smoke detector circuits to verify the existence of an actual fire condition. When a Fire Verify zone initiates an alarm, the panel performs a Fire Reset. If any Fire Verify zone initiates an alarm within 120 seconds after the reset, an alarm is indicated. If an alarm is initiated after 120 seconds, the cycle repeats.

SV (Supervisory zone)

Used to provide 24-hour zone supervision to devices associated with fire systems. Typical applications are tamper switches on Post Indicator Valves (PIVs), gate valves, and low and high temperature gauges.

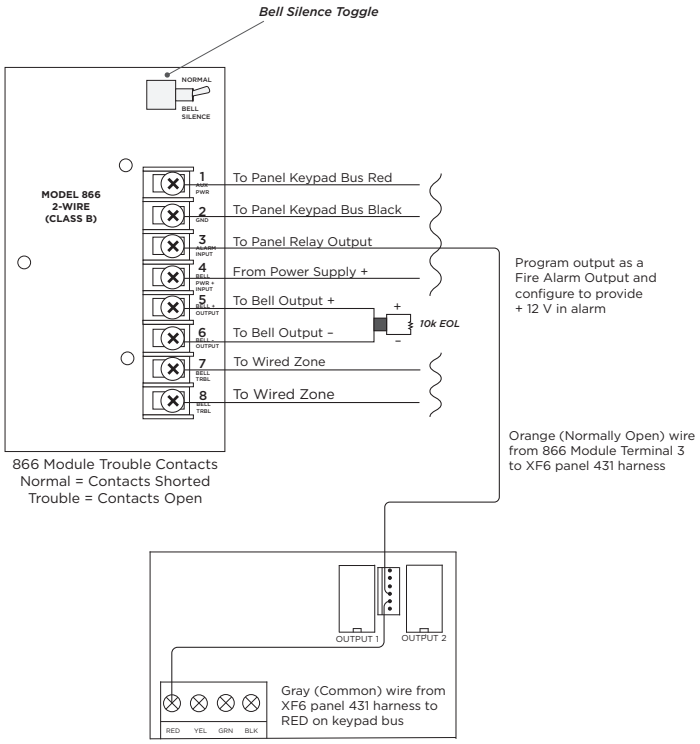
CO (Carbon Monoxide)

This output turns on any time a Carbon Monoxide Zone (CO) is placed in alarm. The output is turned off using Sensor Reset option while no additional CO type zones are in alarm.

866 Class B Notification Module

To install the module on an XF6 Control Panel, follow the steps below.

1. Connect module Terminal 1 to panel keypad bus Red.
2. Connect module Terminal 2 to panel keypad bus Black.
3. Connect module Terminal 3 to Normally Open panel relay output. Connect Common terminal of the panel relay output to keypad bus Red terminal.
4. Wire power supply positive to module Terminal 4. The 866 can operate using 12 VDC or 24 VDC.
5. Connect module Terminal 5 to bell output positive.
6. Connect module Terminal 6 to bell output negative.
7. Install the included 10k Ohm EOL resistor across module Terminals 5 and 6.
8. Wire module Terminals 7 and 8 to a normally closed zone.



XF6 Class B Wiring Connections

Programming

Program the trouble contacts on the module and the auxiliary power supply as a Supervisory Zone (SV) selected for display in the keypad status list. Refer to the appropriate panel programming guide or the DMP Troubleshooting Guide (LT-1866) for more information.

Auxiliary Power Supply Supervision

The panel supervises the regulated, power limited auxiliary power supply listed for Fire Protective Signals through the normally closed trouble contacts on the power supply. The power supply trouble contacts connect to Terminals 7 and 8 on the module. The module provides a relay and two bell trouble contacts at Terminals 7 and 8 to connect the zone input from the panel. When the bell circuit is in a bad condition, these terminals provide an open condition to the zone. These trouble contacts are rated for up to 2 Amps at 30 VDC resistive. An open circuit causes an open condition to be reported to the panel. For wiring information, refer to Figure 3.

Bell Silence Toggle

A bell silence toggle prevents the indicating device from sounding during a system test. When the Bell Silence position is selected, a 15-second delay occurs before the module bell trouble contacts open. After testing, return the bell silence switch to the Normal position to return the module to normal operation.

Common Annunciator Messages

There are several common annunciator messages that the annunciator displays to inform the technician and end-user. The common messages are described below. Possible solutions are also provided.

MESSAGE	MEANING	POSSIBLE SOLUTIONS
INVALID CODE	The user code you entered is not recognized by the system.	Check the user code and try again.
AC TROUBLE	The system AC is low or missing.	Check that all AC connections are good.
BATTERY TROUBLE	The System battery is either low or missing.	Check that the battery connections are good and the battery is still good.
SYSTEM TROUBLE or SERVICE REQUIRED	There is a problem with one or more components in the system.	Make sure the RESET jumper is removed from the panel. Make sure there is not a short or open condition on the green data wire to the annunciator. You may also need to check that all of the annunciators and expansion modules on the bus are good.
SYSTEM BUSY	The system is performing another task with a higher priority.	Wait a few moments for the system to complete the task. Make sure the RESET jumper is not on the panel. If the message displays for a long period of time, the processor could be locked up.
4-WIRE BUS TROUBLE	There is not a supervised device on the bus.	Program a device to be supervised.
	There is low voltage or an open yellow wire.	Make sure all wires are connected.
	Two devices share the same address.	Program one of the devices to a unique address.
TRANSMIT FAIL	The panel has attempted to communicate with the central station 10 times and has not succeeded.	Verify your communication type, account number, and phone number. Make sure the telephone line is connected and working properly.
NON-POLLED ADDRESS	The device is not set to FIRE in Device Setup during programming.	Program the device as FIRE in Device Setup.
ENTER CODE (to enter Programming)	A lockout code has been programmed for the panel.	Enter the lockout code.
WIRELESS TROUBLE	The panel is unable to communicate with the wireless receiver.	Verify the receiver is properly connected to the panel. Verify the correct House Code is programmed in System Options. Satisfy the front and/or rear tamper.
	The wireless receiver's tamper may be faulted.	

FCC INFORMATION

Part 15

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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

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.

CERTIFICATIONS

California State Fire Marshal (CSFM)
Los Angelos Fire Department (LAFD)
New York City (FDNY COA)

Underwriters Laboratory (UL) Listed
ANSI/UL 864 Fire Protective Signaling 10th Edition

Designed, engineered, and manufactured in Springfield, MO using U.S. and global components.
LT-2777 25154

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