XR150FC/XR550FC FACP

FEATURES

- Powerful addressable fire alarm control panel (FACP)

- Proven reliability suitable for commercial and industrial installations

- Full range of zone expansion, communication and relay output capability

- Flash updatable — locally over cell or network

- Onboard digital dialer, network communicator or optional cellular communicator

- Up to .7 Amps 12 VDC supervised bell output

- Up to 562 two-wire smoke detector or fire initiating zones on XR550FC

- Up to 142 two-wire smoke detector or fire initiating zones on XR150FC

- Up to .5 Amps 12 VDC smoke and auxiliary output with OVC protection

- Up to 506 fully programmable Form C relays

- Serial 3 Digital Dialer or CID reporting to multiple receivers

- Eight communication paths between the panel and monitoring center

- Built-in remote or on-site firmware upgrade capability

- 12,000 event buffer

- French, Spanish and English menus available

- Multiple onboard status LEDs

- Up to 100 output schedules to control relays and panel outputs

- 32 individual reporting areas with common areas

- Built-in 32-character LED annunciator on panel door

- Output groups deliver maximum functionality with easy programming

Onboard Network

- Onboard 10/100 autosensing Ethernet

- Customizable check-in time and retry time

- Suitable for multi-site applications

- Meets UL 864 9th Edition requirements

XR150FC AND XR550FC FIRE PANELS

The XR150FC and XR550FC provide basic fire monitoring for any single site application. The XR150DNFC and XR550DNFC panels provide basic fire monitoring and are enhanced by the onboard Ethernet connection that allows the use of Network Monitoring™. Both panels come fully assembled from the factory with the following components.

Control Panel

The XR150FC and XR550FC Series addressable fire panels provide complete system control for local NAC operation. Additionally, DACT, NET or Cell communication to the monitoring center are provided. The microprocessor-based panel also provides input for Class A zone expansion, conventional and addressable smoke detectors, pull stations and heat detectors.

Keypad Annunciator

The Fire Command Center mounted in the door offers a 32-character full text LCD readout that displays system events and menu prompts, making it efficient and easy to use.

Transformer and Enclosure

The 16 VAC, 56 VA wire-in transformer is factory installed and features a built-in PTC for power circuit protection.

FLEXIBLE COMMUNICATION

The XR150/XR550 commercial fire panels have transitioned from dialer-focused communications to a true network and cellular communications approach, providing stronger, multi-layered panel communications that ensure a constant link between the panel and monitoring center.

The unique DMP Serial 3 format supports 16 or 32-character users, zone and area names to decrease response time and limit dependence on automation literal tables for message conversion.

271 GROUND FAULT MODULE

Fitting securely inside the panel enclosure, the module connects to a supervisory zone and the earth ground. If a ground fault is detected, the module trips a relay. The panel will enter into a trouble condition and annunciate at the keypad. In addition, ground fault condition on the zone will light the corresponding GND FAULT red LED. Model 271 can be ordered separately for ground fault detection to existing fire systems.

REMOTE ANNUNCIATOR

Install model 630F Remote Annunciators to meet the requirements of virtually any installation.

NETWORK OR CELLULAR COMMUNICATION

Built-in 10/100 auto-sensing Ethernet connection enhances both standard and encrypted line security options. Both UDP and TCP are supported. The network option can be used as the primary or backup path to the digital dialer or cellular option.

The XR150FC and XR550FC panels may be used with the 263 Series Cellular Communicators as the primary path (no backup required) for commercial fire installations.

The check-in and fail time settings are programmed for five minutes. As the backup path, the 263 communicator provides the security of a communication link that continues to function, even when landlines are cut or compromised. The communicators can be used as a stand-alone communicator without the need for a backup. This interface works over a variety of carriers in the USA and Canada.

EIGHT COMMUNICATION PATHS

Configure up to eight communication paths between the panel and monitoring center. Each path has its own panel communication programming parameters and can be identified as either primary or backup. This enables installers to configure a reliable communication link, offering greater confidence that the panel will always be connected to the monitoring center.

COMMUNICATION FUNCTION DIAGNOSTICS

The enhanced diagnostic menu enables technicians to check network and cellular communication status, cell signal strength and email status from the keypad.

12,000 EVENT MEMORY

Allows the user to view the last 10,000 door accesses or 2,000 system events that occurred over the past 45 days.

FIRE ZONE PROGRAMMING

Program zones for fire, fire verify, fire retard, presignal, cross zoning or fire supervisory. This flexibility allows the ability to match individual zone characteristics to the needs of any area in the fire installation.

ZONE EXPANSION

The XR150FC and XR550FC provide up to 574 zones, programmable for a variety of fire applications. The system provides Class B 12 VDC powered zones, two onboard and four on the 715 expansion module, plus eight panel burglary zones. Up to 64 zones are available on 16 keypad addresses, and up to 100 zones are available on each built-in LX-Bus™ using expansion modules.

FIRE VERIFY

This is 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 Sensor 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 another 120 seconds, the cycle is repeated.

NOTIFICATION CIRCUIT EXPANSION

Easily add NAC outputs to the XR150FC/XR550FC system. Up to three Class B modules can be mounted within the FACP. Model 865 or 866 Class B NAC Modules may be combined with a power supply to provide additional 4 Amp NAC outputs. Use an 867 on the SLC Loop to further expand NAC circuits.

FIRE DRILL AND WALK TEST

Users can test fire notification bells using the Fire Drill feature. A special code is also available for installers to test the system. The Walk Test allows a single technician to check the panel response to fire, burglary, panic and supervisory zones.

BUILT-IN PROGRAMMER AND DIAGNOSTICS

No programming device is required, enabling installers and service technicians to fully program the system and run diagnostics from any DMP LCD keypad. Check the electrical state of zones, find individual zone numbers, check the LX-Bus for missing, overlapping and/or extra zones and much more, all from any DMP LCD keypad.

FLASH UPDATABLE

The XR150FC and XR550FC panels accept software updates using Dealer Admin™. This makes it easy to perform the flash update remotely any time new panel feature updates release.

OUTPUTS

The XR150FC and XR550FC allow the use of two SPDT relay outputs and four open collector outputs, which may be activated by zone or system events, by schedule, through the User Menu or when a card is presented. Output Groups allow multiple outputs to activate with a single event and/or can be assigned to a particular user profile.

OUTPUT SCHEDULES

Achieve maximum system flexibility with 100 programmable schedules that simplify planning and operations. Control any contact-activated device with schedules that automatically regulate relays and switched-ground outputs.

STATUS LIST

To provide maximum system flexibility, fire zones may be programmed to display at a specific keypad. In this manner, all fire zones can be monitored in one location, and other zones can be programmed to display and be monitored at different keypad locations.

COMMERCIAL WIRELESS FIRE DEVICES

The list of DMP wireless devices that have earned the UL Commercial Fire Listing include:

1103 Universal Transmitter: Two-input transmitter typically used in commercial burglary door or window applications.

1100R Wireless Repeater: Extends the communication range of DMP receivers, enabling physically larger, more reliable wireless security systems.

1100T Wireless Translator: Supports up to 128 zones of DSC, Honeywell 5800, 2GIG Series or Interlogic wireless.

1100X Wireless Receiver: Supports up to 500 transmitters and satisfies all wireless applications.

1100XH High Power Wireless Receiver: Provides additional transmit and receive amplification for improved performance at greater distance or in harsh building environments.
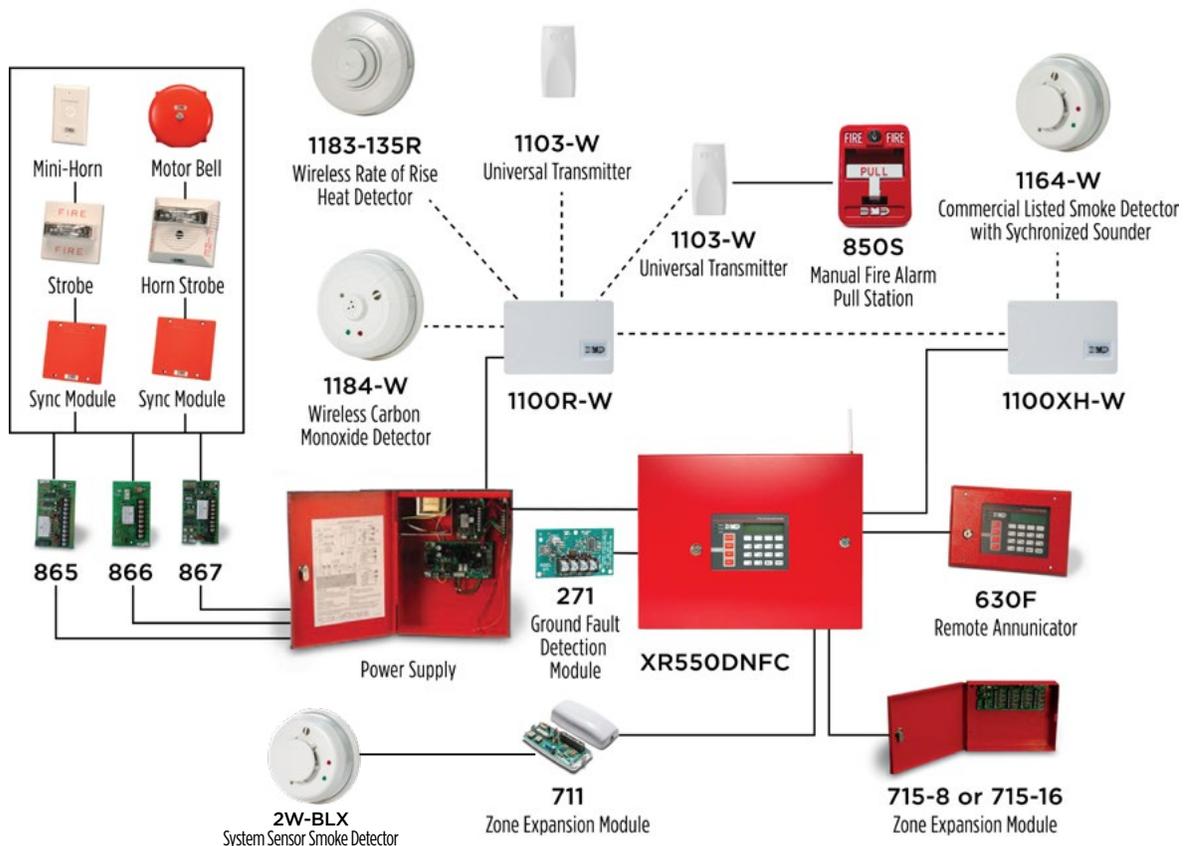
Commercial Smoke Detectors: The 1164 includes synchronized sounders and a tamper switch. The 1164NS is for applications with existing sounder/notification devices.

1168 Wireless Smoke/CO/Low Temp Detector: The 1168 Wireless combination detector features 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 Wireless Heat Detector: A reliable, ceiling-mount heat sensor available in two versions. The 1183-135F responds if the temperature exceeds 135°. The 1183-135R adds a rate-of-rise feature that responds if the temperature increases by 15°F per minute or more.

1184 Carbon Monoxide Detector: The ideal choice for difficult-to-wire locations, applications where room aesthetics are critical or where hazardous materials are present.

The sensor provides an early alert of potentially harmful levels of carbon monoxide in residential or commercial installations. In addition, it also transmits trouble, tamper and low-battery messages to the panel.

Mini-Horn | Motor Bell | Strobe | Horn Strobe | Sync Module | Sync Module

865 | 866 | 867

1183-135R Wireless Rate of Rise Heat Detector

1103-W Universal Transmitter

1103-W Universal Transmitter

850S Manual Fire Alarm Pull Station

1164-W Commercial Listed Smoke Detector with Sychronized Sounder

1184-W Wireless Carbon Monoxide Detector

1100R-W

1100XH-W

Power Supply

271 Ground Fault Detection Module

XR550DNFC

630F Remote Annunicator

2W-BLX System Sensor Smoke Detector

711 Zone Expansion Module

715-8 or 715-16 Zone Expansion Module

COMPATIBILITY REFERENCE SHEET

Keypads

630F	LCD Remote Fire Command

Expansion Modules

710	Bus Splitter/Repeater
711	Single Zone Expansion
711S	Zone Expansion Module
714	Four-Zone Class Expansion
714-8	Eight-Zone Class-B Expansion
714-16	16-Zone Class-B Expansion
715	Four-Zone Two-Wire Smoke Expansion
715-8	Eight-Zone Two-Wire Smoke Expansion
715-16	16-Zone Two-Wire Smoke Expansion
716	Output Expansion, Four Form C relays, Four Open Collector Outputs

Cellular Communicators

263LTE-V/381-2	LTE Communicator for Verizon
263LTE-A/381-2	LTE Communicator for AT&T
263LTE-FN/381-2	LTE Communicator for FirstNet

Auxiliary Modules

860	Relay Output Module
865	Style W/X Notification Circuit Module
866	Style W Notification Circuit Module
867	LX-Bus Notification Circuit Module
869	Style D Class A Initiating Circuit Module
893A	Dual Phone Line Module

Power Supplies

505-12/LX	5 Amps @ 12 VDC
505-12L	5 Amps @ 12 VDC
505-12A	5 Amps @ 12 VDC

Pull Stations

850S	Manual Pull Station Single Action
850D	Manual Pull Station Dual Action
850S/711	Single Action Pull Station with Zone Expander
850D/711	Dual Action Pull Station with Zone Expander
850S/711S	Single Action Pull Station with Zone Expander
850D/711S	Dual Action Pull Station with Zone Expander

Smoke/Heat Detectors

2W-BLX	Conventional Smoke
2WT-BLX	Conventional Smoke/Heat

Accessories

270	Network Transient Suppressor
271	Ground Fault Detection Module
277	Commercial Fire Buzzer Module
300	Four-Wire Harness
303	Silence/Reset Push Button
305	Plug-in Output Relay
306	Tamper Harness
307-S	Screw-On Tamper Switch
3012	Clip-On Tamper Switch
335	Intrusion Siren
370	Lightning Suppressor
374	Surge Voltage Suppressor
381-2	18" Coax Extension
431	Output Harness
861	Power Distribution Module

Monitoring Center Receivers

SCS-1R	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

1100T	Translator
1100X	Receiver
1100XH	High-Power Receiver
1100R	Repeater
1103	Universal Transmitter, External Contact
1164	Wireless Smoke Detector with Synchronized Sounder
1164NS-W	Wireless Smoke Detector with No Sounder
1168	Wireless Smoke/CO/Low Temp Detector
1183-135F	Heat Detector
1183-135R	Heat Detector
1184	Carbon Monoxide Detector

Computer Software

Remote Link Programming Software
Dealer Admin

System Specifications

Primary Power (included):
16 VAC 56 VA transformer

Secondary Power:
12 VDC Battery
Models: 365, 366, 368 or 369

Output Rating:

Bell	Up to .7 Amps at 12 VDC
Smoke and Auxiliary	Up to .5 Amps at 12 VDC

For installations, total bell, smoke and auxiliary cannot exceed 1.2 Amps using a 56 VA transformer.

Current Draw:
174 mA Standby
217 mA Alarm

Enclosure:

Material	Cold-rolled steel (Red)

Ordering Information

XR150DNFC-R	XR150 Fire Control Panel with Network
XR550DNFC-R	XR550 Fire Control Panel with Network

Certifications

California State Fire Marshal (CSFM)
New York FDNY
Refer to the XR150FC/XR550FC Compliance Guide (LT-1330) and specific compliance listings for installation and programming requirements necessary to meet a particular approval.

FCC Part 68
FCC Part 15
Underwriters Laboratories (UL) Listed
ANSI/UL 864   Fire Protective Signaling

For additional information,
go to DMP.com/Compliance.