463G

UL Listed Digital Cellular Communication for Fire Alarm Control Panels

The 463G, when installed in a DMP XR100/XR100FC or XR500/XR500FC Panels, is UL approved as a primary (standalone) fire communicator with no backup, or as a fire slave communicator, that is compatible with any FACP. The 463G provides a dependable communications link between your alarm system panel and Central Station.

- Compared to a dialup communication link, cellular can save significantly in annual telecom costs
- UL Listed as the Primary Communicator and Fire Slave Input for the XR100/XR500 in Fire Applications under ANSI/UL 864 Commercial Fire (Meets NFPA 72)
- Works on digital cellular GPRS data net works over a variety of carriers, including AT&T (USA) and Rogers (Canada)

GSM/GPRS DIGITAL CELLULAR FIRE COMMUNICATOR 463G

FEATURES

- 463G enhances system security that conforms with NFPA and UL requirements
- Direct reporting to the DMP Central Station receiver, with no relaying of alarm signals
- Fire Slave Input option of the XR100/XR500 with 463G approved for any FACP
- Modular solution means easily updated for newer technologies
- Eight-path redundancy with multiple message delivery available

- DMP Adaptive Technology™ switches communication paths while maintaining supervision if the current path becomes unavailable
- 463G uses power from panel with low current draw for long standby battery life
- Can be equipped with local or remote antenna, offering more flexibility when installing
- Cellular data throttling offers overage suppression
- Ability to check signal strength indication at the keypad
- Messaging features transmit alarms/alerts to users via SMS text messages, and allow users to remotely control their panel via text commands

UL LISTED

Install the DMP 463G Digital Cellular Communicator in an XR Series panel to create a UL listed, primary communication path for commercial fire installations. The Fire Slave Input option of the XR500 has also been approved under ANSI/UL 864 (NFPA 72 2007 & 2010), allowing it to be used as a Slave Communicator for any FACP.
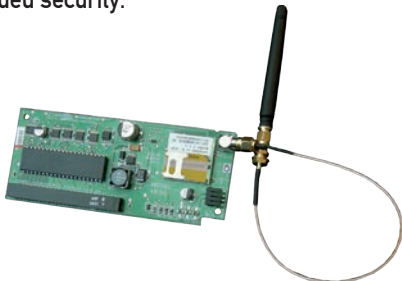
DIRECT REPORTING

The digital cellular communicators transmit IP data packets directly from the panel's processor over the GSM/GPRS wireless data network. All of the messages that are capable of being sent by the control panel are received directly by the DMP Central Station receiver. There are no intermediary servers or network operation centers, and no retransmission or reinterpretation of the information. Direct reporting means faster response, with no concerns about signals not being properly relayed or intermediate communication links failing.

ADD-ON TO XR100/XR500 PANEL

The 463G works as an easy-to-install XR100/XR500 expansion card, with plug-and-play ease of installation. No extra programming is required. It provides full data delivery of DMP Zones, Areas, and Users, with all names and details included.

The remarkably compact 463G won't take up a lot of space in your communications closet. The unit directly installs in the expansion card slot, which is mounted inside a sturdy UL-listed metal cabinet. Tamper protection is also available for added security.

FULLY SUPERVISED

You're kept fully informed of system status. The unit sends full reporting messages including Zones, Areas, and Users, with all names and details included. Full supervision ensures that the cellular communication path is intact and functional.

EIGHT-PATH REDUNDANCY

Feel more secure with up to eight paths of communication redundancy. Select from TCP, UDP, RS232, GPRS, Single Line Dialer, Dual Line Dialer with multiple IP numbers, and multiple telephone numbers. You identify and configure your redundant communication links via Remote Link.

A DACT (digital alarm communicator transmitter) system may be configured as:

- Path 1 Type DD Primary and Path 2 Type DD Backup
- Path 1 Type DD Primary and Path 2 Type CELL Backup
- Path 1 Type DD Primary and Path 2 Type NET Backup

A NET or CELL system may be configured as:

- Path 1 Type NET Primary with no Backup
- Path 1 Type CELL Primary with no Backup
- Path 1 Type NET Primary and Path 2 Type DD Backup
- Path 1 Type NET Primary and Path 2 Type CELL Backup
- Path 1 Type CELL Primary and Path 2 Type NET Backup

ADAPTIVE TECHNOLOGY™

If the primary communication path is compromised or becomes unavailable, Adaptive Technology almost instantly switches to a designated backup path. Where multiple backups are available, communications can be programmed to switch to another path as necessary.

The checkin frequency and programming for a backup path adapt to the checkin programming of the primary path. When the primary path becomes available, normal communications are restored. Adaptive Technology provides additional confidence in the integrity of your system, while protecting you from unexpected cellular service charges.

REDUCED EQUIPMENT NEEDS

With other cellular backup equipment, you need to purchase additional enclosures, power supplies, batteries, cabling, and conduit connections. The 463G reduces the number of pieces of equipment you have to purchase. It comes ready to mount, reducing your initial costs and simplifying both installation and ongoing operation.

REDUCED COMMUNICATION COSTS

Adding the Cellular Communicator to the DMP XR500 fire alarm control panel can lower costs significantly compared to dial-up connections. Fire systems typically require two dial-up lines that can be eliminated and replaced with a single cellular connection.

ANTENNA PLACEMENT

The unit includes both local and remote SMA (S-band multiple access) antenna connections, giving you added freedom and flexibility during installation..

LOW CURRENT DRAIN

With its extremely low current drain and long standby battery life, the 463G will continue to provide a communications link for an extended period of time, even during a power failure. It draws half the current of other comparable units.

SIMPLE TO INSTALL AND PROGRAM

Connect the 463G to your panel, attach the antenna and power, and installation is complete. Programming the 463G is fast and simple, accomplished within the panel itself

After programming the 463G via Remote Link, you will automatically be presented with the option to activate your cellular service. Once activated, the wireless backup connection is immediately online protecting your communications link. No separate programming utility is required.

SECURECOM CELLULAR SERVICES

The 463G comes standard with a SIM (Subscriber Identity Module) card ready to use SecureCom Wireless Cellular Service from DMP. With the 463G and SecureCom, you have a one-stop resource for both hardware and cellular service.

ENHANCED FIRE PROTECTION

Compared to dial-up connections, a digital cellular communication link provides greater reliability, protection from sabotage, and is less prone to being knocked out by weather. Unlike mobile cellular connections, the 463G creates a fixed network connection that minimizes hand-offs and the chance for dropped connections. When trouble conditions occur, they can be more quickly diagnosed and often corrected remotely.

The NFPA 72 code requires a test of the entire communications path every five minutes. The DMP XR100/XR500 Panels used with DMP 463G Digital Cellular Communicator meets this requirement when check-in and fail time settings are programmed for five minutes. The net result is a higher level of system reliability in comparison with traditional systems that rely on redundant phone lines and the substantially less frequent 24-hour supervision reports associated with that approach.

UPDATEABLE

In addition to being able to change cellular carriers, you will also be ready to take advantage of technical improvements as they occur. The unit's modular architecture enables seamless upgrades as improved technology becomes available.

CELLULAR DATA THROTTLING

DMP panels protect you from unexpectedly high cell phone charges for usage over the plan limits with overage suppression. When cell data traffic exceeds 3K/hour, you receive an hourly alert advising you of the high traffic. When traffic exceeds 6K/hour, the panel will begin to automatically suppress non-alarm messages, including check-ins. When cell traffic drops back below the 3K/hour limit, full communications are automatically restored.

MESSAGING FEATURES

Including cellular communication in the panel enables the Messaging Features that make it possible for users to remotely interact with their panel. The panel can be programmed to transmit email*/SMS messages to as many as three addresses, including cell phones or email addresses (up to 48 characters each). End users can receive email or text messages each time there's a system event such as arming and disarming, zone bypass, or any alarms. Messaging can be configured via Remote Link™ or from the keypad. Full panel programming can be done over cellular.

Users also have the ability to send commands via text messages to the panel. They can arm or disarm their system, control outputs, retrieve system status, and perform other functions. Each command received by the panel is acknowledged back to the user via return SMS Message. Dealers have the opportunity to generate additional recurring revenue by offering these features to customers.

*For email messages, network or cellular communication must be present.

Use any model of cell phone for
Messaging Features

DMP WIRELESS DEVICES FOR ANSI/UL 864 COMMERCIAL FIRE

Complete your fire system with other DMP wireless devices that are ANSI/UL 864 Listed for Fire Protective Signaling Systems.

TWO-WAY COMMUNICATION

Superior to traditional wireless devices that just broadcast until the zone is restored, DMP 1100 Series require an acknowledgement from the 1100 Series Receiver, indicating successful communication. This smart technology ensures that each and every communication is received and efficiently processed at the panel. With the 900MHz frequency-hopping spread-spectrum technology, clear and accurate signal transmissions without interference in practically any environment is to be expected.

1100 SERIES RECEIVERS

The 1100 Series Receivers: 1100X and 1100XH allow you to add up to 500 transmitters and is required for wireless capability in both regular and harsh environments.
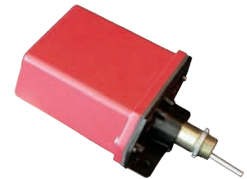
1103 UNIVERSAL TRANSMITTER

Model 1103 Universal Transmitter is typically used in commercial fire or burglary door/ window applications. It offers the same look and features as the 1101 transmitter, with the addition of a 470k end-of-line resistor and wall tamper switch.

1165/1165H/1165HS COMMERCIAL SMOKE DETECTORS

The Model 1165 Smoke Detector, 1165H Smoke/ Heat Detector, and 1165HS Smoke/ Heat Detector with Sounder include a tamper switch that sends a trouble signal if the detector is removed from the mounting base.

1181 POST INDICATOR VALVE

The model 1181 PIV is a weather proof and tamper resistant wireless switch for monitoring the open position of fire sprinkler control values of the post indicator, butterfly and other types.
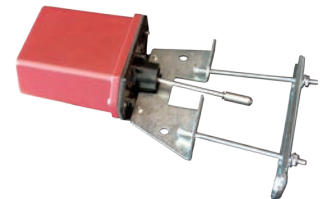
1182 OS&Y

The 1182 OS&Y Switch is used to monitor the open position of an OS&Y (Outside Screw and Yoke) type gate valve. The 1182 mounts conveniently to most OS&Y valves ranging in size from ½" to 12". The switch operates the external contacts of the wireless transmitter when the valve position is altered from an open state.

SPECIFICATIONS

Primary Power	12 VDC from panel
Current Draw	
Standby	22 mA
Alarm	45 mA

COMPATIBILITY

DMP Command Processor panels XR500, XR500N, XR500E using Software Version 202 or higher

ORDERING INFORMATION

463G Digital Cellular Communicator

ACCESSORIES

380-400	Replacement Level 400 SIM Card
381-12	12' Coax Extension
381-25	25' Coax Extension
383	Rubber Duck Antenna
386	Wall Mount Antenna Bracket

ACCESSORIES CONT.

387-1	3dB Fiberglass Antenna w/bracket
387-2	2dB Attack Enclosure Antenna
387-3	3dB MEG Antenna
387-25	SMA TO N CABLE, 25FT, LMR195
387-50	SMA TO N CABLE, 50FT, LMR195

LISTINGS AND APPROVALS

California State Fire Marshal (CSFM)

FCC ID: MIVGSM0308

Industry Canada ID: 4160A-GSM0308

Underwriters Laboratories (UL) Listed

ANSI/UL 365	Police Station Connect Burglar Alarm Systems
ANSI/UL 985	Household Fire Warning System Units
ANSI/UL 1023	Household Burglar Alarm System Units
ANSI/UL 1076	Proprietary Burglar Alarm Units & Systems
ANSI/UL 1610	Central Station Burglar Alarm Units
ANSI/UL 864	Control Units for Fire-Protective Signaling Systems