

FIRE SYSTEM PERFORMANCE SPECIFICATION FOR DMP MODEL XF6-100/XF6-500 SERIES

1.0 GENERAL

1.1 Manufacturer

- A. The manufacturer shall have at least forty (40) years of experience in the role of fire and security control manufacturing, and a proven track record of forward and backward compatibility for a minimum of thirty (30) years for its product's auxiliary devices, including system keypads, annunciation devices, zone expansion modules, and addressable detection devices.
- B. The manufacturer must also manufacture receiving equipment that is compatible with network and cellular network monitoring equipment that is compatible with a LAN, WAN, and the Internet. The receiving equipment shall be capable of receiving all status and alarm messages generated by the system. The receiving equipment shall be capable of updating the panel operating program and the system date and time.
- C. Fire Control Panel equipment manufacturer shall be:
 - Digital Monitoring Products, Incorporated (DMP)
 - 2500 N. Partnership Boulevard, Springfield, MO 65803
 - Telephone (417) 831-9362 FAX (417) 831-1325

1.2 Installer

- A. The installing company shall show proof of having regular experience with design, installation, service, and maintenance of manufactured systems for a minimum of the last twelve (12) calendar months from the project start date. Each system installer and service person must provide manufacturer certification of technical training for installation, service, and system maintenance. Certification shall be proven with an official document issued by the manufacturer.
- B. The installing company shall provide a minimum of 8 (eight) verifiable references from its clients where the manufacturer's system has been installed within the last twelve (12) calendar months from the project start date.
- C. The installing company shall furnish and install a complete electrically supervised DMP panel, as detailed in this specification. The system shall be inclusive of all necessary function, monitoring, and control capability as detailed herein and on accompanying shop drawings.
- E. The installing company shall become familiar with all details of the work, verify all dimensions in the field, and shall advise the Architect of any discrepancy before performing the work. Materials shall be installed in strict compliance with local building codes. All work shall be performed in accordance with Digital Monitoring Products, Inc. instructions. Components must be installed and serviced by a dealer in good standing that is factory-trained by Digital Monitoring Products.

1.3 Central Reporting Station

- A. The central reporting station contractor must possess an Underwriter's Laboratory (UL) listing. A copy of the listing shall be attached as a part of this bid package.
- B. The actual alarm signal receipt and processing is a significant portion of the scope of work. Third party and/ or contract stations are permitted. UL must list the monitoring station for Protective Signaling Services or Central Reporting Station Signaling Services. A copy of the station UL listing shall be attached as part of this bid package.
- C. The contractor must have a valid Alarm Operator License. A copy of licenses shall be attached as part of this bid package.
- D. The contractor may be required to monitor a portion of the alarm systems by way of the end user data network.
- E. The Contractor shall become familiar with all work details, verify all dimensions in the field, and shall advise the Architect of any discrepancy before performing the work.
- F. The end user shall not incur any central station setup charges by the contractor to receive alarm signals by way of the end user data network.

2.0 SCOPE

2.1 Requirements

- A. Furnish and install a complete Fire Control System with the performance criteria detailed in this specification. The system shall be inclusive of all necessary functions, monitoring, and control capability as detailed herein and on accompanying Shop drawings.
- On-site or remote video monitoring
 - Heating, air conditioning, and lighting management
 - Temperature threshold detection and monitoring
 - Humidity threshold detection and monitoring
 - Pressure threshold detection and monitoring
 - Power loss detection and monitoring, generator switching
 - Smoke/fire detection and monitoring
 - Leak detection and monitoring
 - Carbon Monoxide detection and monitoring
 - Tank level threshold detection and monitoring
- B. This specification document provides the requirements for the installation, programming, and configuration of a complete DMP panel. This system shall include, but not be limited to:
- Control panel
 - System cabinet
 - Power supply
 - Digital Signaling Line Circuits (SLC)
 - Notification Appliance Circuits (NAC)
 - Annunciator/keypad bus
 - Batteries
 - Wiring
 - Conduit
 - Associated peripheral devices
 - Other relevant components and accessories required to furnish and install a complete and operational addressable system.

2.2 Standards

The system shall be listed as a Power Limited Device and be listed under the standards below. Each system shall be supplied with complete details on all installation criteria necessary to meet all of the listings.

Fire Listings	Related Standards
• UL 864 Fire Protective Signaling Systems	• NFPA 70 National Electric Code (NEC)
	• NFPA 72 Household Fire Warning
	• System Monitors
	• System Events

2.3 Americans with Disabilities

All indicating and notification appliances shall comply with the Americans with Disabilities Act (ADA) requirements.

3.0 SUBMITTALS

3.1 General Requirements

The contractor shall submit three (3) complete sets of documentation within thirty (30) calendar days after contract award date. Indicated in the document shall be the manufacturers' names, catalog number, type, size, style, rating, and catalog data sheets for all items proposed to meet these specifications.

3.2 Shop Drawings

Shop drawings shall be submitted in accordance with Section 3.0 Submittals and shall consist of a complete list of equipment and materials, including manufacturer's descriptive and technical literature, performance charts and curves, catalog cuts, and installation instructions.

3.3 As-Built Drawings

The contractor shall provide a complete set of as-built drawings for the entire system upon installation completion. These drawings shall include, but not be limited to, the exact locations of all equipment, connections between all equipment, and wiring for all equipment as the system is installed.

3.4 Spare Parts Data

After shop drawings are approved, and not later than thirty (30) calendar days prior to the date of beneficial occupancy, a list of spare parts data for each item of specified materials and equipment shall be submitted. The data shall include a complete list of parts and supplies with current unit prices and source of supply. Spare parts shall consist of, but not be limited to, five (5) percent of all initiating and notification appliances with a minimum of one (1) each. All spare parts shall be on site prior to commencement of acceptance testing. Depleted spare parts shall be replaced prior to beneficial occupancy.

3.5 Operating Documents

The contractor shall furnish to the architect operating instructions outlining the step-by-step procedures required for system start-up, operation, and shutdown at least thirty (30) calendar days prior to acceptance test. The instructions shall include the manufacturer's name, system model number, service manual, parts list, and a description of all equipment and their basic operating features.

3.6 Maintenance Documents

The contractor shall furnish maintenance instructions listing routine maintenance procedures, possible breakdowns and repairs, and troubleshooting guides at least 30 calendar days prior to acceptance test.

3.7 Performance Test Reports

Upon the installed system completion and testing, test reports shall be submitted in booklet form showing all field tests performed to prove compliance with specified performance criteria.

3.8 Warranty

A copy of the manufacturer's warranty for all equipment and materials shall be provided. Warranty shall be for all equipment, materials, installation, and workmanship for a minimum of three (3) years, unless otherwise specified.

4.0 GENERAL COMPONENT REQUIREMENTS

4.1. Component Enclosure

Housings, power supply enclosures, terminal cabinets, control units, and other component housings, collectively referred to as enclosures shall be so formed and assembled as to be sturdy and rigid. If sheet steel is used in the fabrication of enclosures, it shall be not less than an 18 gauge door with a 20 gauge box frame. Where exposed pins, the hinges shall be of the tight pin type or the ends of hinge pins shall be tack welded to prevent ready removal. Doors having a latch edge length of less than 24 inches shall be provided with a single lock. Where the hinged door latch edge is 24 inches or more in length, doors shall be provided with three-point latching device with lock; or alternatively with two locks, one located near each end.

4.2 Electronic Components

- A. All system electronic components shall be solid-state type, mounted on printed circuit boards. Light duty relays and similar switching devices shall be solid-state type or electromechanical.
- B. The panel shall have an over current notification LED that lights when devices connected to the Keypad Bus and Loop Expansion LX-Bus(es) draw more current than the panel is rated for. When the over current LED lights, the Loop Expansion LX-Bus (es) and Keypad bus are shut down.

4.3 Control Unit

- A. A battery test shall be automatically performed to test the integrity of the standby battery. The test shall disconnect the standby battery from the charging circuit and place a load on the battery. This test shall be performed no more than every 180 seconds.
- B. The control unit shall be capable of operating and supervising notification appliance devices as well as addressable initiating detection devices and an integrated supervised dual line digital communicator.
- C. Control unit must be "Flash ROM" updatable, and program must be held in non-volatile RAM. The panel shall be able to function while the update is in process.

4.4 Remote Annunciators

- A. The system shall support a maximum of seven (7) supervised remote annunciators on the XF6-100 and fifteen (15) supervised remote annunciators on the XF6-500 with the identical capabilities, functions and display layout. Operation of the remote annunciators shall be limited to authorized users by the use of a code or key.
- B. The remote annunciators shall be capable of operating at a maximum wiring distance of 2,500 feet from the control unit on unshielded, non-twisted cable.

4.5 Control Designations

Controls shall be provided to ensure ease of operation of all specified characteristics. Where applicable, clockwise rotation of controls shall result in an increasing function. Controls, switches, visual signals and indicating devices, input and output connectors, terminals and test points shall be clearly marked or labeled on the hardware to permit quick identification of intended use and location.

4.6 Test Modes

- A. The system shall include a provision that permits testing from any alphanumeric keypad. The test shall include standby battery, alarm bell or siren, and communication to the central station.
- B. The system shall include a provision for an automatic, hourly, daily, weekly, thirty (30) day, or up to sixty (60) day communication link test from the control panel installation site to the central station.
- C. The system shall include a provision for displaying the internal system power and wiring conditions. Internal monitors shall include the bell circuit, AC power, battery voltage level, charging voltage, panel box tamper, transmit trouble, and network trouble.

4.7 Power Supplies

- A. Power supplies for the control unit shall operate from 24 VDC, supplied at the respective protected areas. Standby batteries shall be supplied to power the system in the event of a utility power failure. Standby batteries shall be sealed lead-acid. Power supplies shall be all Solid State.
- B. Controls shall be designed to maintain full battery charge when alternating current is available. Batteries shall be recharged to 85% capacity within 24 hours from battery use. The system shall be automatically transferred to battery power upon loss of alternating current power and return to alternating current power upon restoration.
- C. Approved power supplies shall meet or exceed the following power supply model specifications:
UL Listed DMP PS12-5: 12VDC 5 Amp with transformer and enclosure.

4.8 Software

- A. The system shall interface with computer software with the capability to fully program the panel by connecting to the panel through:

Ethernet network connection

Network connection across the Internet

- B. The system shall interface with computer software capable of exporting reports in the following file formats:

Excel spreadsheet (*.xls)	Text (*.txt)
Rich Text (*.rtf)	Comma-separated (*.csv)
Windows Metafile (*.wmf)	HTML document (*.htm)
QuickReport (*.qrp)	

5.0 FUNCTIONAL DESCRIPTIONS

5.1 System Description

- A. The system zones shall be programmable, and the system shall store, log, display, and transmit specific custom designations for system zone and user names.
- B. To ensure continued, one-call support, the system shall be constructed of sensing components provided directly by the system manufacturer, such as smoke detectors, heat detectors, or other sensing devices that the manufacturer offers.
- C. The system controller, user interfaces, zone input devices, relay output devices, and the system signal receiving equipment shall be engineered, manufactured, assembled, and must be distributed from a location within the United States of America.
- D. The system shall support user interaction by way of a keypad, web browser, system software, key switch, or radio frequency wireless control, or Smart Phone Application using integrated or auxiliary devices provided by the system manufacturer.
- E. The system shall support controller zone input connections, system keypads, system zone expansion modules, and wireless zone input modules, and must support zone input connections by way of at least two competitive products. The system shall offer a seamless integrated compatibility with hard-wire and/ or wireless zone expansion equipment for at least 500 wireless zones and/ or a maximum of 574 hardwired zones.
- F. The system shall be capable of offering up to five zone expansion buses, each of which can support the connection of up to 15,000 feet of four-wire cable. Zone expansion and keypad data buses that exceed 2,500 feet of cable must include splitter/repeater modules to boost data voltage and maintain data integrity.
- G. The system shall provide a seamless capability to provide up to 506 addressable relays, which can be located at any connection location upon a zone expansion bus.
- H. System relay outputs shall have the capability of being triggered as a result of a command from the user interface, changes in system status, changes in zone status, or by a programmable schedule.
- I. System relay output states shall be programmable for momentary, maintained, pulsed, or must follow the state of an associated system zone input.
- J. The system shall be completely programmable either locally from a keypad or remotely through a standard dial-up, and network connections by way of a LAN, WAN, and/or by way of the Internet, cellular communications paths.
- K. The control unit shall be completely programmable remotely using remote annunciators, and/ or using upload/download software that communicates using SDLC 300 baud, 2400 baud, or IP Addressed data network. On-site programming from a personal computer shall also be permitted.
- L. The control unit shall be equipped with an anti-reversing circuit breaker to prevent damage due to accidental reversal of battery leads.

5.2 Input/output Capacity

- A. This system shall be capable of monitoring a maximum of 574 individual zones and controlling a maximum of 506 output relays.
- B. The control panel shall have, as an integral part of the assembly, 2 SPDT Form C relays rated at 1 Amp at 30 VDC and four open collector 12 VDC outputs rated at 50mA each. It shall also have the capacity of a maximum of 125 output expander modules with 500 switched ground, open collector outputs, 50mA maximum and 506 auxiliary relays (Form C rated at 1.0 Amp at 30 VDC).
- C. The panel shall also provide 99 programmable output profiles for schedules and include an integral bell alarm circuit providing at least 1.5 Amps of steady, pulsed, or temporal bell output. Output type shall be programmable by zone type. Relays and voltage outputs shall be capable of being independently programmed to turn on and/or off at selected times each day.

5.3 User/Authorization Level Capacity

The system shall be capable of operation by ten (10) unique Personal Identification Number (PIN) codes with each code having one (1) of two (2) user profiles. This allows for limitation of certain functions to authorized users. The operation of all keypads shall be limited to authorized users.

5.4 Keypads

- A. The system shall support a maximum of fifteen (15) keypads on XF6-500 or seven (7) keypads on XF6-100 series with alphanumeric display. Each keypad shall be capable of arming and disarming any system area based on a pass code or Proximity key authorization. The keypad alphanumeric display shall provide complete prompt messages during all stages of operation and system programming and display all relevant operating and test data.
- B. Communication between the control panel and all keypads and zone expanders shall be multiplexed over a non-shielded multi-conductor cable, as recommended by the manufacturer. This cable shall also provide the power to all keypads, zone expanders, output expanders, and other power consuming detection devices.
- C. If at any time a keypad does not detect polling, the alphanumeric display shall indicate "SYSTEM TROUBLE". If at any time two devices are programmed for the same address, the alphanumeric keypad shall display "4 WIRE BUS TROUBLE". If at any time a keypad detects polling but not for its particular address, the alphanumeric display shall indicate "NON POLLED ADDR". The system shall display all system troubles at selected keypads with distinct alphanumeric messages.
- D. The keypad shall include self-test diagnostics enabling the installer to test all keypad functions: display test, key test, zone test, LED test, relay test, tone test, and address test.
- E. The keypad shall provide an easy-to-read English text display. The text shall exactly match the text seen in all software reports, keypad displays, and central station reports.
- F. The keypad user interface shall be a simple-to-use, menu-driven help system that is completely user friendly.
- G. The control panel shall support a keypad interface accessible on the World Wide Web in a browser window. The web-accessible keypad interface shall provide at least five (5) programmable hyperlinks for camera access or other use.

5.5 Zone Configuration

- A. A minimum of 4 Class B ungrounded zones shall be available at each keypad or zone expander on the system. The system shall have the capacity for a maximum of fifteen (15) keypads and a maximum of 125 four (4) zone expanders or 500 single zone expanders on the XF6-500. It shall also have the capacity of a maximum of 125 supervised relay output expanders. The XF6-100 shall have the capacity for a maximum of seven (7) keypads and a maximum of 25 four (4) zone expanders. It shall also have the capacity of a maximum of 25 supervised relay output expanders. All Class B zones shall be 2-wire, 22 AWG minimum, supervised by an end-of-line (EOL) device and shall be able to detect open and short conditions in excess of 500ms duration.
- B. Each zone shall function in any of the following configurations: Fire, Supervisory, Fire Verify, and Carbon Monoxide (CO).
- C. The digital SLCs and the annunciator/keypad bus shall be able to operate at a maximum wiring distance of 2500 feet from the control panel on unshielded, non-twisted cable. This distance may be extended to a total of 15,000 feet when bus repeater modules are installed.

5.6 Communication

- A. The system shall be capable of signaling to as many as 8 remote monitoring station receivers. Seven (7) of the eight (8) paths shall be capable of being assigned as either a "primary" or "backup" path. In such a manner the system shall have multiple primary paths to multiple remote monitoring stations as well as multiple backup paths to multiple monitoring stations.
- B. The system shall employ Adaptive Technology that allows a Backup communication path programmed for Network or Cellular to automatically ADAPT to the faster check-in rate of the Primary path should the Primary path become unavailable. This creates a seamless transition for communication.
- C. The system shall be capable of supporting Network communication with existing Ethernet data networks, satellite communication, fiber optic networks, local area networks, wide area networks, cellular communication, and retail data networks.

5.7 Network Communication

- A. The control panel shall be capable of asynchronous network communication with a retry time between 2 and 240 minutes and a fail time of 2 and 240 minutes. If communication is unsuccessful the control panel shall be capable of attempting backup communication through any of the available communication methods to the same receiver or a backup receiver.
- B. The control panel shall employ adaptive communication technology. Adaptive Technology allows a Backup communication path programmed to use Network or Cellular to automatically ADAPT to the faster check-in rate of the Primary path should the Primary path become unavailable, creating a seamless transition for communication of messages. Select Adapt when programming the Checkin option. This allows a system to be fully supervised even if a path fails, while also keeping wireless charges low when the network is good.
- C. Network communication between the control panel and the receiver shall be in a proprietary communication format.
- D. The control panel shall be capable of supporting Dynamic Host Communication Protocol (DHCP) Internet Protocol (IP) addressing.
- E. Underwriters Laboratories (UL) shall list network communication by the control panel for Standard or Encrypted Line Security.
- F. The control panel shall be capable of two-way network communication using standard Ethernet 10/100 BaseT in a LAN, WAN, or Internet configuration.
- G. The control panel shall be capable of communication by means of a 128 & 256 Bit AES (Advanced Encryption Standard) Encryption process certified by NIST (National Institute of Standards and Technology) to an SCS-1R receiver with a built-in Encryption Alarm Router or SCS-VR.
- H. The control panel shall be capable of sending text messaging to up to three Cellular Phone Numbers using cellular communications.
- I. The control panel shall be capable of sending the following Text messages:

Zone Alarms by Zone Name	AC Power Trouble and Restoral
Zone Troubles by Zone Name	System Low Battery

5.8 Cellular Communications

- A. The control panel shall have the capability to communicate with a CDMA communicator model number 263C or LTE communicator model number 263LTE-V that shall plug into the control panel J24 connector which shall supply full data communication and power to the cellular communicator. The cellular communicator shall be capable of communicating full panel alarm and auxiliary messages to the DMP SCS-1R Central Station or SCS-VR Receiver as well as SMS text messaging to a PC, PDA, or Cellular telephone.
- B. The control panel shall be capable of sending the following SMS messages

Zone Alarms by Zone Name	AC Power Trouble and Restoral
Zone Troubles by Zone Name	System Low Battery

6.0 FIRE FEATURES

6.1 Fire Verify Zones

The system shall support Fire Verify zones to help the panel verify the existence of an actual fire condition before it sends an alarm report to the central station. The Fire Verify zone shall require the panel to perform a Sensor Reset whenever a device connected to a Fire Verify zone initiates an alarm. This shall begin a verification period during which the panel waits for a second alarm initiation. If the original zone or any other Fire Verify zone on the panel initiates an alarm within the next 120 seconds, the panel shall recognize this as an actual alarm and send an alarm report to the central station.

6.2 Cross-Zoning Protection

The system shall support cross-zoning as a means of requiring two device trips to occur within a short period of time before sounding an alarm and sending an alarm report to the central station. Supported device trips shall be from one device that trips two times, or from two devices that each trip once.

6.3 Swinger Zone Bypassing

The system shall be capable of automatically bypassing a zone if it goes into an alarm or trouble condition a specified number of times within a one-hour period. The panel shall be able to track the number of times the zone trips while armed and compare that against a programmed number. When that number is reached, the panel shall be able to automatically bypass the zone. The panel shall be capable of resetting the zone when the area to which it is assigned disarms, is manually reset from the keypad or remotely, or remains normal for one hour.

7.0 FIRE CONTROL SPECIFICATIONS

7.1 FACP Standards

The Fire Alarm Control Panel (FACP) system shall be listed as a Power Limited Device and be listed under the standards below. Each system shall be supplied with complete details on all installation criteria necessary to meet all of the listings.

Fire Listings	• FDNY - Fire Department New York City
• UL 985 Household Fire Warning	Related Standards
• UL 864 Commercial Fire Warning	• NFPA 70 National Electric Code (NEC)
• California State Fire Marshal	• NFPA 72 National Fire Code

7.2 Fire Annunciator Keypads

- A. The control unit shall be completely programmable remotely using remote annunciators, and/ or using upload/ download software that communicates using SDLC 300 baud, 2400 baud, 9600 baud, IP Addressed data network, or cellular communications network. On-site programming from a personal computer shall also be permitted. Programming changes shall comply with NFPA 72 for acceptance or re-acceptance testing.
- B. The system shall include a menu selected "SENSOR RESET" option. This option shall operate without disarming and re-arming the fire system, with use of any pass code or function key controlled by a key switch, shall reset smoke detectors after they have been tripped.
- C. System shall be restricted from remote software connection unless on-site authorization is given by means of lock code entered at a 630F Fire Annunciator to comply with NFPA 72 requirements.

7.3 Zone Configuration

- A. The FACP system shall have a minimum of two (2) Class B ungrounded 2-wire smoke detector zones available from the control panel.
- B. The system shall be capable of providing a maximum of 562 independent, 2-wire, and 12 VDC powered zones to power smoke detectors.
- C. Zones on the digital SLC buses (LX buses) shall be capable of supporting 500 DMP Model 2W-BLX and/or 2WT-BLX addressable smoke detectors.

7.4 Fire Annunciators

- A. If at any time a remote annunciator does not detect polling from the Fire Panel, the remote annunciator shall indicate "SYSTEM TROUBLE" on its alphanumeric LCD display within 200 seconds. If at any time the remote annunciator detects polling, but not for its particular address, the alphanumeric display shall indicate "NON-POLLED ADDR".

7.5 Fire Control Equipment

- A. Fire Control detection equipment shall communicate to the system by way of the control panel loop expansion bus or 900MHz receiver. The detection equipment shall have a three (3) year warranty and meet or exceed features offered in the products listed in Section 11.0 of this document.
- B. Wireless detection equipment shall be supervised at a maximum of once every 3 minutes to comply with NFPA 72 Standard and UL Listed for Commercial and Residential Fire Applications.
- C. All detection equipment shall be listed by a Nationally Recognized Testing Laboratory (NRTL) for the intended purpose and meet NFPA 72 Standards.

8.0 COMPILED DETECTION EQUIPMENT LISTING

8.1 Hard-wired

Hard-wired detection equipment shall communicate to the system by way of the control panel loop expansion bus. The equipment shall have a three (3) year warranty as stated in the current DMP Product Catalog and meet or exceed features offered in the following products:

Bus Splitter/Repeater Module - DMP Model 710

Output Expansion Module - DMP Model 716

Other product types shall connect directly to zone expansion modules such as:

Manual Fire Alarms - DMP Models 850S, 850D

Addressable - DMP Model 711

Addressable - DMP Models 714, 714-8, 714-16

Addressable - DMP Models 712-8

Addressable - DMP Models 715, 715-8, 715-16

Addressable - DMP Models 850S/711, 850D/711, 2W-BLX, 2WT-BLX

8.2 Wireless

Wireless detection equipment shall communicate to the system by way of a compatible 900MHz receiver utilizing two-way communications, capable of receiving up to 500 wireless zones. The wireless system shall be programmed directly from the control panel, and shall not require a separate device programmer. The wireless detection equipment shall have a one (1) year warranty. It shall be capable of sending transmitter and battery status to the control panel's compatible receiver up to once every 60 seconds and must meet or exceed the following products:

Wireless Receiver - DMP Model 1100X-W or 1100XH-W

Wireless Repeater - DMP Model 1100R-W

Universal Transmitter - DMP Model 1103-W

Smoke Detector Transmitter - DMP Model 1164-W, 1164NS-W

Wireless Heat Detectors 1183-135F and 1183-135R

Wireless Carbon Monoxide Detector 1184-W

8.3 Power Supplies and Transformers

Power supply and transformer shall maintain system operation. The batteries shall be checked and replaced every three to five years. The equipment shall have a three (3) year warranty as stated in the current DMP Product Catalog and meet or exceed features offered in the following products:

Power Supply - DMP Model PS12-5, 120 VAC, 12 VDC

8.4 Cellular Communications Equipment

Cellular Communications equipment shall plug directly into the XF6 Series Cell Module connector and shall be supervised by the XF6 Series Control Communicator. The Cellular Communications Equipment shall be of a low current draw and powered directly by the XF6 Series Control Communicator.

The Cellular Communicator shall communicate in the SDLC Serial 3 Format for communications directly to a SCS-1R or SCS-VR DMP Central Station Receiver. The equipment shall have a three (3) year warranty as stated in the current DMP Product Catalog and meet or exceed features offered in the following products:

263LTE-V/381-2 LTE Digital Cellular Communicator with 18" Coax Extension Cable

381-2 18" Coax Cable

381-12 12' Coax Extension

381-25 25' Coax Extension

383 Rubber Duck Antenna

386 Wall Mount Antenna Bracket

387-1 3DB Fiberglass Antenna w/Bracket

387-3 3DB MEG Antenna

387-4 SMA to N Cable, 4ft LMR195

387-8 SMA to N Cable, 8ft, LMR195

387-25 SMA to N Cable, 25ft LMR195

387-50 SMA to N Cable, 50ft LMR195

9.0 INSTALLTION

9.1 System Component Installation

Materials shall be installed in strict compliance with all local, state, county, province, district, federal and other applicable building, safety, and fire standards, laws, codes, regulations, and guidelines including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

9.2 Lightning Suppression

The system shall include an optional lightning suppressor module that intercepts and directs lightning, transient, and RF interference to ground.

10.0 SYSTEM COMPARISON

10.1 Basic Comparison Items Table

The table below lists features or points found necessary for successful installation and continued service of an integrated system. Compare your current system with the listed items. Please provide a certification document providing a clear and truthful statement that agrees with your response to each question.

Important Points	Explanation	Response	
Designed, Engineered, Manufactured Location	Is your system engineered, designed, manufactured, assembled, and distributed from a location within the United States of America?	Yes	No
Forward and Backward compatibility	Because we want to preserve a maximum portion of our investment over time, can your system manufacturer certify that it has practiced forward and backward compatibility of main system components such as the panel, keypads, zone expansion devices, and relay output devices for a minimum of the last thirty (30) years?	Yes	No
Manufacturer Experience	Because we require extensive manufacturing experience, has your system controller manufacturer's primary role been in the security industry for a minimum of thirty-five (35) years?	Yes	No
System Messaging Compatibility	We require the maximum capabilities in communication offered by the manufacturer. Does your system controller manufacturer also engineer, and manufacture a receiver that receives all messages in less than six seconds? If so, can this receiver receive each and every status message that the controller sends?	Yes	No
Experience in Network Monitoring	Has your manufacturer been providing TCP/IP network monitoring for a minimum of thirty (30) years?	Yes	No
No Invasive systems on our network	Because our network is so important to the operation of our business, We require that no additional PCs or terminals be allowed upon our network. Does your manufacturer require additional software or PC terminals in order to program or maintain operation of network monitoring functions?	Yes	No
Network monitoring flexibility and compliance	Because we require confirmation of the fitness of your monitoring capabilities, the system must be listed by approved compliance agencies. Can your manufacturer's controller provide UL Standard Line Security network monitoring over a network that uses either DHCP, or static IP address?	Yes	No
Easy operation	Because we manage so many people, the system must be easy to operate. Does your system manufacturer offer keypads with integrated proximity identification capabilities?	Yes	No
Distribution of relay outputs	Because we intend to integrate this system with many of our other electronic systems within the building, we require that the placement of triggering relays be as flexible as possible. Does your system have the ability to provide relay outputs in a central location, and distributed across a data bus which extends at least 15,000 feet?	Yes	No
Relay triggering capabilities	Because we intend to integrate this system with many of our other electronic systems within the building, we require that the triggering of relays be as flexible as possible. Can your system trigger relay outputs based upon zone status or system status, and can relays be triggered by way of keypad commands, software commands, Web browser commands, RF remote, and a pre-determined schedule?	Yes	No

FIRE SYSTEM PERFORMANCE SPECIFICATION FOR DMP MODEL XF6-100/XF6-500 SERIES

Important Points	Explanation	Response	
Relay states when triggered	Because we intend to integrate this system with many of our other electronic systems within the building, we require that the triggering of relays be as flexible as possible. Can your system's relay outputs be selected for status to follow zone input status, pulsed output, and maintained outputs.	Yes	No
Relay states according to the state of the zone input	Because we intend to integrate this system with many of our other electronic systems within the building, we require the triggering of relays be as flexible as possible. Can your system's relay outputs be configured for different responses based upon the zone armed state?	Yes	No
Relay associations to zones based upon system and zone states.	Because we intend to integrate this system with many of our other electronic systems within the building, we require that the triggering of relays be as flexible as possible. Can you assign different relays for each zone based upon whether the system is armed and the zone is open, the system is disarmed and the zone is open, the system is armed and the zone is shorted, and the system is disarmed and the zone is shorted?	Yes	No
Common descriptions for zone, area, and user designations.	Because we wish to minimize confusion in various ways that we use reporting, we require that descriptions for areas of our building, users of the system, and zone inputs connected to the system offer at least sixteen (16) characters to maximize user understanding. These descriptions must be programmed and stored in one location, and appear exactly the same in stored events, printed logs, and remotely at the central monitoring station. Does your system provide this capability?	Yes	No
Flexible user interface capabilities	Because we may use the system from many locations, in many ways, we require that the system offer user interface capabilities from local keypads, web browsers, software packages, radio frequency remote arming stations, and offer the capability to use any zone input for arming and disarming. Does your system offer all of these capabilities?	Yes	No
Contractor experience	Because we require that the installing company is experienced and factory trained. We require each installer and service person who works on our system to be factory trained and must submit a certificate issued by the factory as proof of this training. Can your company provide these certification documents?	Yes	No

LT-2816 25503 © 2025 Digital Monitoring Products, Inc.

	800-641-4282	INTRUSION • FIRE • ACCESS • NETWORKS
	www.dmp.com	2500 North Partnership Boulevard
	Designed, Engineered and Assembled in the USA	Springfield, Missouri 65803-8877