1100 Series Wireless

1164/1164NS

1184

1168

1183

1166

1103

WIRELESS TRANSMITTERS

- ‣ 1103 Universal Transmitter
- ‣ 1164 Smoke Detector
- ‣ 1164NS Smoke Detector with No Sounder
- ‣ 1166 Smoke Ring
- ‣ 1168 CO/ Smoke Detector
- ‣ 1183-135F Heat Detector
- ‣ 1183-135R Heat Detector
- ‣ 1184 Carbon Monoxide Detector

FEATURES

- ‣ Two-Way™ Wireless provides unique advantages including longer battery life, extended range, superior supervision, outputs, and wireless devices that can be configured remotely

- ‣ Simple serial number programming

- ‣ Seamless integration with DMP panels and other hardwired devices

- ‣ Built-in Survey LED visually confirms communications

- ‣ Extended range and battery life

- ‣ 3-, 60-, or 240-minute supervision window; selectable by zone or output to maximize effectiveness

- ‣ Frequency-hopping 900 MHz spread-spectrum technology

- ‣ Attractive and durable plastic housing for all units

- ‣ Internal case tamper for added security

- ‣ Programmable from panel keypad or via Remote Link™, Dealer Admin™, or Tech APP™

- ‣ User-replaceable 3.0V lithium batteries

TWO-WAY COMMUNICATION

DMP Two-Way Wireless systems operate in the frequency range between 905 and 924 MHz. This is an unlicensed radio wave or spectrum band that is relatively uncluttered.

In the 300-433 MHz band, regulations prevent check-in signals from being sent more than once an hour, which means that an intruder could remove a sensor and not be detected for nearly an hour. Wireless alarm systems operating in the 905-924 MHz band do not have this limitation, enabling sensors to be supervised as frequently as every three minutes.

DMP wireless receivers supervise for transmitters that go missing. With Two-Way communication, each wireless transmitter communicates with the receiver using supervision messages. Each transmitter can be programmed for no supervision or a 3-, 60-, or 240-minute window providing flexibility and allowing increased security for those applications that require shorter supervision times.

When the receiver does not receive any supervision messages from the transmitter for the programmed window of time, the receiver reports the zone or output as missing to the panel for display and reporting to the monitoring center.

DMP Two-Way Wireless products are typically placed up to 1,200 feet from the receiver. With systems operating in the 300-433 MHz band, the maximum recommended distance between sensor and receiver is 200 feet. Even with a repeater, that extends the distance only to approximately 400 feet.

900 MHZ SPREAD-SPECTRUM TECHNOLOGY

DMP wireless communication employs 900 MHz frequency-hopping spread-spectrum to ensure clear and accurate signal transmissions without interference in practically any environment. The spread-spectrum technology enables the system to use numerous channels within the 905-925 MHz band and to dynamically hop from frequency to frequency.

By using spread-spectrum technology, this ensures that a DMP wireless system cannot be defeated by jamming. With non-spread spectrum systems that operate in a narrow frequency band, an intruder can use a wireless device to flood the area with transmissions at the same frequency used by the alarm system, thereby preventing alarm signals from reaching the receiver.

Every 32 milliseconds, DMP Two-Way Wireless hops to a new frequency across 53 frequencies. The order is random and determined by the house code of the panel.

Although spread-spectrum technology uses frequencies that other systems use and will encounter interference from other systems, it is designed to overcome that interference inherently.

As the device and receiver are hopping to a different channel, when it encounters a channel that has interference on it, it simply moves on, and the data acknowledgment will not be received, thus requiring the panel or sensor to resend that signal. This trying and resending will automatically occur until the message is sent and acknowledged. This self-healing system is very reliable.

EXTENDED BATTERY LIFE

Programming each wireless device with a specific communication test interval eliminates wasteful, repetitive signaling. By eliminating multiple rounds of repetitive signals, Two-Way communication extends battery life.

SIMPLE PROGRAMMING

No special equipment is needed to program the system! Assign wireless transmitters to zones or outputs during panel programming with Remote Link, the Tech App, Dealer Admin, or from the keypad.

RECEIVERS

RECEIVER	DESCRIPTION	COMPATABILITY
1100D	Standard Receiver	XT Series
1100DH	High Power Receiver	XT Series
1100DHE	High Power Encrypted Receiver	XT Series
1100X	Standard Receiver	XR Series
1100XH	High Power Receiver	XR Series
1100XHE	High Power Encrypted Receiver	XR Series
1100R	Repeater	XTL/XT/XR Series

DMP Two-Way Wireless alarm systems operating in the 905-924 MHz spectrum band offer numerous advantages over other products. These include:

▸ Longer range due to less strict regulatory requirements for the 905-924 MHz frequency band in comparison with the 300-433 MHz band

▸ Support for more frequent sensor check-ins, increasing system reliability

▸ Spread-spectrum technology for greater reliability and protection from jamming

▸ Two-way communications for greater reliability

▸ Easier installation and reduced installation costs due to two-way transmission and sensors with built-in survey LED's

▸ Suitable for commercial installations because of:
  · Greater range
  · Support for up to eight repeaters
  · Shorter wavelengths are less likely to be blocked by new walls or other changes made to a protected area
  · UL approved for commercial fire installations

▸ Survey LED for one person installation

▸ Longer battery life for lower maintenance costs

COMMERCIAL FIRE-APPROVED DEVICES FOR USE WITH THE XR150/XR550

1103 UNIVERSAL TRANSMITTER

Model 1103 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, wall tamper switch, and commercial fire listing.

1164 SMOKE DETECTOR WITH SYNCHRONIZED SOUNDER

This is a wireless device with integrated synchronized sounder. In installations with multiple smoke detectors, when one 1164 sounds, it signals the panel to command all 1164s to sound. Any fire zone tripped on the panel will cause the sounders to initiate. The panel can also trigger other wired strobes and strobe horns. The 1164 also includes a tamper switch that sends a trouble signal when the detector is removed from the mounting base. Up to 572 units can be installed on one system. The 1164 uses the robust and experienced 900 MHz Two-Way Wireless technology from DMP that has been approved for commercial fire applications since 2009.

1164NS SMOKE DETECTOR WITH NO SOUNDER

This is a wireless device with no sounder. The 1164NS has the same functionality as the 1164 minus the built-in sounder. The 1164NS is intended for use in installations with existing sounder/notification devices. The 1164NS uses the robust and experienced 900 MHz Two-Way Wireless technology from DMP that has been approved for commercial fire applications since 2009.

1183-135F HEAT DETECTOR

This is a fixed temperature detector that reacts to heat by responding to the fixed 135° temperature setting. When activated, an alarm is sent to the control panel. The 1183-135F model has a black dot on the heat collector fin for identification.

1183-135R RATE OF RISE HEAT DETECTOR

This model is a combination rate-of-rise and fixed temperature detector that trips when the ambient temperature increases at a minimum rate of 15°F per minute. It also sends an alarm to the control panel when the temperature reaches 135°.

HOUSEHOLD FIRE-APPROVED DEVICES FOR USE WITH THE XT30/XT50 AND XR150/XR550

1166 SMOKE RING

Traditional smoke detectors only provide an audible alert in the event of a fire. The 1166 monitors the smoke detector system and sends a message to the alarm panel when any smoke detector is triggered. Only one 1166 is required per system.

1168 CO/SMOKE DETECTOR/LOW TEMP

The 1168 Wireless CO/Smoke 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.

1184 CARBON MONOXIDE DETECTOR

The 1184 is a 3-volt battery-powered wireless carbon monoxide (CO) detector that provides early warning when the electrochemical sensing technology measures carbon monoxide levels in the air. The detector consists of an electrochemical carbon monoxide sensor assembly coupled with an 1100 Series wireless transmitter. The transmitter can send alarm, trouble, tamper and low battery condition messages to the alarm panel.

The 1184 is an ideal carbon monoxide detector for difficult-to-wire locations, applications where room aesthetics are critical, or where hazardous materials exist.

SPECIFICATIONS

1103 Transmitter

Battery Life Expectancy   5 years
Dimensions
    Transmitter Case   3.3" L × 1.6" W × 0.9" H
    Magnet Housing   1.5" L × 0.5" W × 0.7" H
Certifications
    California State Fire Marshal (CSFM)
    New York City (FDNY COA #6167)
    ANSI/UL 365 Police Station Connected Burglar
    ANSI/UL 609 Local Burglar Alarm Units and Systems
    ANSI/UL 634 Connections and Switches for use with Burglar Alarm Systems
    ANSI/UL 1023 Household Burglar Alarm System Units
    ANSI/UL 1076 Proprietary Burglar Alarm Units
    ANSI/UL 1610 Central Station Burglar Alarm Units
    ANSI/UL 864 Fire Protective Signaling Systems

1164/1164NS

Battery Life Expectancy   1 year
Dimensions
    Detector   5.6" × 2.4"
    Base   5.4" × 0.46"
Certifications
    New York City (FDNY COA #6167)
    ANSI/UL 268 Smoke-Automatic Fire Detectors
    FCC Part 15 Registration ID CCKPC0104
    IC Registration ID 5251A-PC0104

1166

Life Expectancy   6 Years (normal operation)
Dimensions   6.5" W × 0.5" H
Certifications
    ANSI/UL 985 Household Fire Warning System

1168

Life Expectancy
    ETL Rating   1 year
    Normal Conditions   3 Years
Dimensions   6.3" W × 1.65" H
Certifications
    ANSI/UL 268 Smoke-Automatic Fire Detectors
    ANSI/UL 2075 Gas and Vapor Detectors and Sensors
    FCC Part 15 Registration ID CCKPC0204

1183-135F/1183-135R

Battery Life Expectancy   2 years
Dimensions
    Detector   5.8" × 2.2"
Heat Alarm Specifications
    Rate-of-Rise   15°F/min > 105°F
    Fixed   135°F ± 5°F
Drift Compensation
    Adjustment   0.5%/ft. max
Certifications
    California State Fire Marshal (CSFM)
    New York City 1100 Series Wireless (FDNY COA #6145)
    ANSI/UL 521 Heat Detectors for Fire Protective Signaling Systems

1184

Battery Life Expectancy   2 years
Dimensions   5.8" × 2.2"
Certifications
    New York City 1100 Series Wireless (FDNY COA #6167)
    ANSI/UL 2075 Gas and Vapor Detectors and Sensors
    FCC Part 15 Registration ID CCKPC0104
    IC Registration ID 5251A-PC0104

Wireless Receivers

1100X Wireless Receiver

Frequency Range   903-927 MHz
Operating Voltage   8.0 to 14 VDC
Current Draw   40 mA
Housing Dimensions   5.5" L × 1" W × 3." H
Flame-retardant ABS constructed housing
Certifications
    California State Fire Marshal (CSFM)
    New York City 1100 Series Wireless (FDNY COA #6167)
    ANSI/UL 365 Police Station Connected Burglar
    ANSI/UL 609 Local Burglar Alarm Units and Systems
    ANSI/UL 634 Connections and Switches for use with Burglar Alarm Systems Accessory
    ANSI/UL 636 Holdup Alarm Units and System
    ANSI/UL 639 Intrusion Detection Units Accessory
    ANSI/UL 1023 Household Burglar Alarm System Units
    ANSI/UL 1076 Proprietary Burglar Alarm Units
    ANSI/UL 1610 Central Station Burglar Alarm Units
    ANSI/UL 864 Fire Protective Signaling Systems
    ANSI/UL 985 Household Fire Warning System

1100R Wireless Receiver

Frequency Range   903-927 MHz
Operating Voltage   8.0 to 14 VDC
Housing Dimensions   4.65" L × 1.4" W × 3.1" H
Flame-retardant ABS constructed housing
Certifications
    California State Fire Marshal (CSFM)
    New York City (FDNY COA #6167)
    ANSI/UL 365 Police Station Connected Burglar
    ANSI/UL 609 Local Burglar Alarm Units and Systems
    ANSI/UL 634 Connections and Switches for use with Burglar Alarm Systems Accessory
    ANSI/UL 639 Intrusion Detection Units Accessory
    ANSI/UL 1023 Household Burglar Alarm System Units
    ANSI/UL 1076 Proprietary Burglar Alarm Units
    ANSI/UL 1610 Central Station Burglar Alarm Units
    ANSI/UL 268 Smoke-Automatic Fire Detectors
    ANSI/UL 985 Household Fire Warning System
    ANSI/UL 864 Fire Protective Signaling Systems

Ordering Information

1103	Universal Transmitter
1164	Residential/Commercial Smoke Detector with Synchronized Sounders
1164NS	Residential/Commercial Smoke Detector with No Sounder
1166	Wireless Smoke Ring
1168	CO/Smoke Detector
1183-135F	Residential/Commercial Heat Detector
1183-135R	Residential/Commercial Heat Detector
1184	Residential/Commercial Carbon Monoxide Detector

Patents

U.S. Patent No. 7,239,236

Compatibility

XTLplus , XT, and XR Series Panels

Accessories

CR123-FIRE   3.0V Panasonic Lithium Battery (for commercial fire devices)

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