1100 Series Wireless Environmental Sensors

Benefits

- Two-Way™ Wireless provides unique advantages including longer battery life, extended range, superior supervision, outputs and wireless devices that can be configured remotely
- Seamless integration with DMP panels and other hardwired devices
- Shorter wavelengths are less likely to be blocked by new walls or other changes made to a protected area
- Survey LED for one person installation
- Longer battery life for lower maintenance costs

Features

- Simple serial number programming
- 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 switch for added security
- Programmable from panel keypad or via Dealer Admin™
- User-replaceable 3-volt lithium batteries

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 905-924 MHz band and to dynamically hop from frequency to frequency.

By using spread-spectrum technology, this virtually 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.

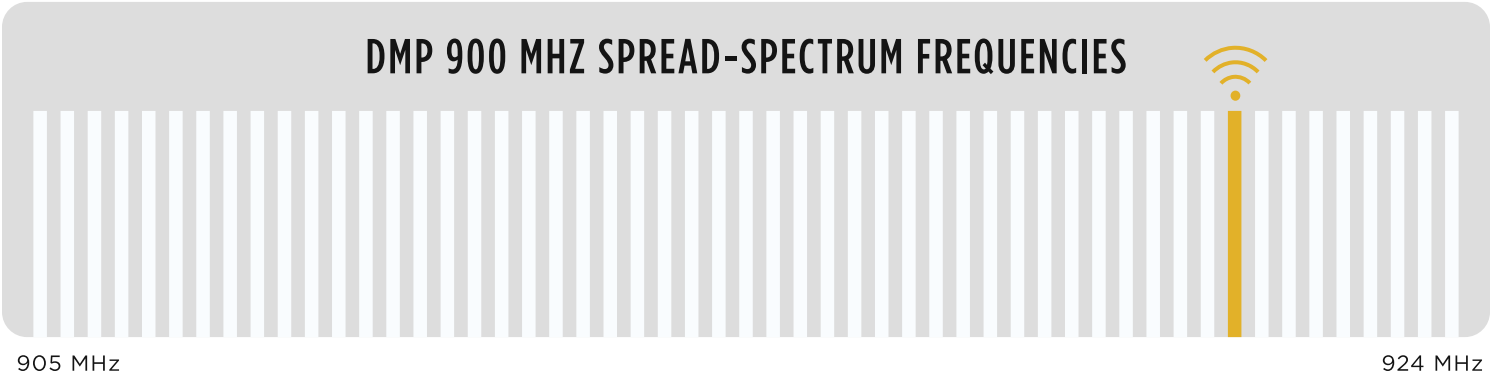
Every 32 milliseconds, DMP Two-Way Wireless hops to a new frequency across 53 frequencies. The order is random and determined by the house code of the panel.

Although spread-spectrum technology uses frequencies that other systems use, and it will see interference from other systems, it is designed to overcome that interference inherently. This is one of the main advantages of spread-spectrum wireless.

If the device and receiver hop to a different channel and encounter a channel that has interference, 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.

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 communication for greater reliability
- 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



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.

SURVEY LED

The onboard LED on 1100 Series transmitters provides built-in survey capability to allow for single-person installations, eliminating the requirement for an additional survey kit.

SIMPLE PROGRAMMING

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

SENSORS

1112 WATER AND TEMPERATURE DETECTOR

This low-profile device is easy to install and can be programmed with up to three zones. It's perfect for detecting water leaks or temperature changes in commercial and residential applications. The 1112 sends an alert after detecting water for one minute. It also alerts if temperature drops below 45ºF or above 95ºF for more than ten minutes.

1115 TEMPERATURE & FLOOD DETECTOR

The 1115 can be programmed with up to four zones and serves as a temperature sensor, flood detector or both simultaneously. The 1115 has an internal temperature sensor that can detect cold, hot or warm temperature ranges. When combined with a T280R Temperature Sensor Probe, the 1115 can monitor refrigerated or freezing temperatures. The 1115 may also be combined with a 470LS Water Sensor Probe to monitor flood conditions.

1164 SMOKE DETECTOR WITH SYNCHRONIZED SOUNDER

The 1164 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 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

The 1164NS has the same functionality as the 1164 Smoke Detector with Synchronized Sounder, 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.

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 smoke detector system.

1168 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.

1183-135F HEAT DETECTOR

The 1183-135F is a fixed temperature detector that reacts to heat by responding to the fixed 135 degree 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

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. The element responds to a rapid rise in temperature and sends an alarm to the control panel when the ceiling temperature increases at a minimum rate of 15 degrees Fahrenheit per minute. An alarm is also sent to the panel if the ceiling temperature reaches the fixed 135 degrees setting if the rate-of-rise is not exceeded.

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.

RECEIVERS/REPEATERS

1100DH/1100DHE RECEIVERS

The 1100DH allows you to add wireless transmitters to XT Series panels as easily as adding a keypad. Supporting up to 32 wireless transmitters, the 1100DH receivers satisfy all wireless applications and are competitively priced for residential or commercial applications.

1100XH/1100XHE RECEIVERS

The 1100XH allows you to add wireless transmitters to XR Series and XT75 Series panels as easily as adding a keypad. Supporting up to 500 wireless transmitters, the 1100XH satisfies all wireless applications and is competitively priced for residential or commercial applications.

1100R/1100RE REPEATER

Extend the communication range of DMP wireless devices with the 1100R Wireless Repeater. Use up to eight repeaters with any DMP 1100 Series receiver system. The plug-in DC power supply is backed up by a 24-hour battery. Onboard LEDs provide built-in survey capability to enable single-person installation and eliminate the requirement for an external survey kit. An internal case tamper switch provides device security.

1100 Series Wireless Environmental Sensors

SENSORS

1112 WATER AND TEMPERATURE DETECTOR

Battery Life Expectancy	3 years
Dimensions	2.8" round x .5" H

1115 TEMPERATURE AND FLOOD DETECTOR

Battery Life Expectancy	3 years
Dimensions	3.3" L × 1.6" W × 1.2" H

1164/1164NS SMOKE DETECTOR

Battery Life Expectancy	1 year
Dimensions	
Detector	5.6" W × 2.4" H
Base	5.4" W × 0.46" H

1166 SMOKE RING

Life Expectancy	6 Years (normal operation)
Dimensions	6.5" W × 0.5" H

1168 SMOKE/CO/LOW TEMP DETECTOR

Life Expectancy	
ETL Rating	1 Year
Normal Conditions	3 Years
Dimensions	6.3" W × 1.65" H

1183 HEAT DETECTOR

Battery Life Expectancy	2 years
Dimensions	5.8" × 2.2"

1184 CARBON MONOXIDE DETECTOR

Battery Life Expectancy	2 years
Dimensions	5.8" W × 2.2" H

WIRELESS RECEIVERS/REPEATER

1100DH/1100DHE WIRELESS RECEIVER

Frequency Range	905-924 MHz
Operating Voltage	8.0 to 14 VDC
Current Draw	40 mA
Housing Dimensions	5.5" W × 3.75" H × 1" D
Flame-retardant ABS constructed housing	

1100XH/1100XHE WIRELESS RECEIVER

Frequency Range	905-924 MHz
Operating Voltage	8.0 to 14 VDC
Current Draw	40 mA
Housing Dimensions	4.65" L × 1.4" W × 3.1" H
Flame-retardant ABS constructed housing	

1100R/1100RE WIRELESS REPEATER

Frequency Range	905-924 MHz
Operating Voltage	8.0 to 14 VDC
Housing Dimensions	4.65" L × 1.4" W × 3.1" H
Flame-retardant ABS constructed housing	

XTLPLUS ONBOARD RECEIVER

Frequency Range	905-924 MHz
Operating Voltage	12 VDC (Model 372-500-W)
Housing Dimensions	5.5" W × 3.75" H × 1" D

XTLTOUCH ONBOARD RECEIVER

Frequency Range	905-924MHz
Operating Voltage	12 VDC
Dimensions	5.8" W × 4.1" H × 1.3" D

XT50 ONBOARD RECEIVER

Frequency Range	905-924 MHz

XT75 ONBOARD RECEIVER

Frequency Range	905-924 MHz

COMPATIBILITY

XTL Series, XT Series, XR Series and XF Series panels

ACCESSORIES

CR123	3.0V Lithium Battery
CR123FIRE	3.0V Lithium Panasonic Battery
CR2477	3.0V Lithium Coin Battery (1166 series only)
1100RBAT800/8	800 mAH Battery

PATENTS

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

TYPICAL RANGE AND OPTIMAL RECEIVER PLACEMENT

Typical open air range is 1,200 feet for standard receiver and 1.7 miles using high-power receiver. Your experience may vary based on site conditions, wall thickness and material and other variables. Open air range listed for reference. Typical range in enclosed structures will be reduced. We recommend doing a site survey to determine optimal receiver placement and operation in harsh or expansive applications.

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

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