1166 WIRELESS SMOKE RING
Installation Guide

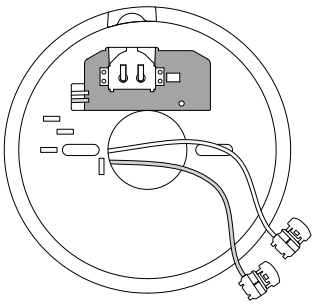


Figure 1: 1166 Wireless Smoke Ring

DESCRIPTION

The 1166 Wireless Smoke Ring can be installed with any traditional AC-powered interconnected smoke alarm system.

Traditional smoke alarms only provide an audible alert in the event of a fire. The 1166 monitors the interconnected smoke alarm system and sends a message to the alarm panel when any smoke alarm is triggered.

Only one 1166 is required per smoke alarm system if all the existing smoke alarms are interconnected. Each smoke alarm in a protected residence must be tested to verify interconnection prior to installing 1166 devices.

Compatibility

All DMP 1100 Series Wireless Receivers and burglary panels. See the last page for compatibility details. The 1166 has been tested with the following smoke alarms by Intertek:

- BRK Brands Model 7010B
- Kidde Model i4618
- First Alert BRK Model 9120B
- Kidde Model i12040
- USI Electric Model 5304

What is Included?

- One 1166 Wireless Smoke Ring
- One 3.0V Lithium CR2477 Battery
- Mounting Screws

1 TEST EXISTING SMOKE ALARMS

Begin by testing for the interconnected status of all the smoke alarms within the protected area. The 1166 is designed to work with three-wire AC-powered smoke alarms with an interconnected wired output. It will not work with two-wire AC-powered smoke alarms, wireless smoke alarms, or battery powered smoke alarms. See *Compatibility* for specific smoke alarm models the 1166 has been tested with.

2 PROGRAM THE PANEL

Program the 1166 Wireless Smoke Ring into the panel. Each 1166 programmed takes up one zone in the panel. Refer to the panel programming guide as needed.

1. In **ZONE INFORMATION**, enter the **ZONE NO:** and press **CMD**.
2. Enter the **ZONE NAME**.
3. Select **FI** (fire) as the **ZONE TYPE**.
4. At the **NEXT ZN?** prompt, select **NO**. If you see the **WIRELESS ZONE** prompt, select **YES**.
5. Enter the eight-digit **SERIAL#** and press **CMD**.
6. Enter the **SUPRVSN TIME** (supervision time) and press **CMD**.
7. At the **NEXT ZN?** prompt, select **YES** if you are finished programming the zone. Select **NO** if you would like to access additional programming options.

3 SELECT A SMOKE ALARM

Choose one of the smoke alarms in the interconnected system onto which you will add the 1166.

Since the 1166 does not have a visible Survey LED, use a wireless device with a Survey LED to confirm that the 1166 will be within communication range of a DMP wireless receiver or panel. DMP recommends using an 1106 Wireless Universal Transmitter that has been programmed into the panel.

Check the Location Using a Survey LED

1. Open the wireless device and hold it over the smoke alarm onto which the 1166 will be added.
2. Press the tamper switch to send data to the panel and see if communication is confirmed or faulty.

✓ **Confirmed:** If communication is confirmed, the Survey LED blinks immediately on and immediately off for each press or release of the tamper switch.

✗ **Faulty:** If communication is faulty, the Survey LED remains on for up to 8 seconds or flashes multiple times in quick succession. Chose a different smoke alarm or relocate the wireless receiver until the Survey LED confirms clear communication.

4 REMOVE THE SMOKE ALARM

Once you have confirmed that the 1166 will be within communication range of a receiver or panel, remove the chosen smoke alarm and install the 1166 mounting base.

1. Turn off power to the smoke alarm system at the breaker before beginning the installation.
2. Remove the chosen smoke alarm from its mounting base by twisting it counterclockwise or clockwise (depending on the brand).
3. Unplug the pigtail connector and detach the smoke alarm.
4. Remove the screws from the mounting bracket to detach it from the electric junction box.
5. Insert the pigtail wire and wire taps through the center opening in the 1166.
6. Place the 1166 where the mounting base was on the ceiling or wall and then place the mounting base over the 1166. Line up the screw openings.
7. Use the mounting screws included with the 1166 to attach the mounting base and 1166 to the electric junction box.

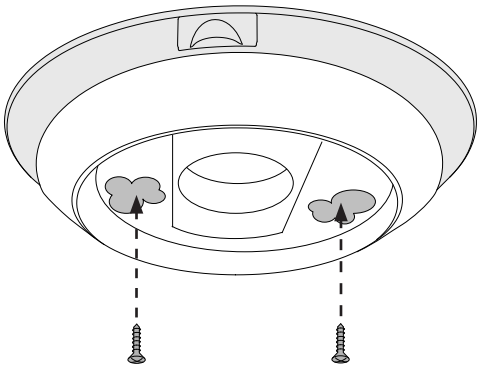


Figure 2: Mounting Screw Locations

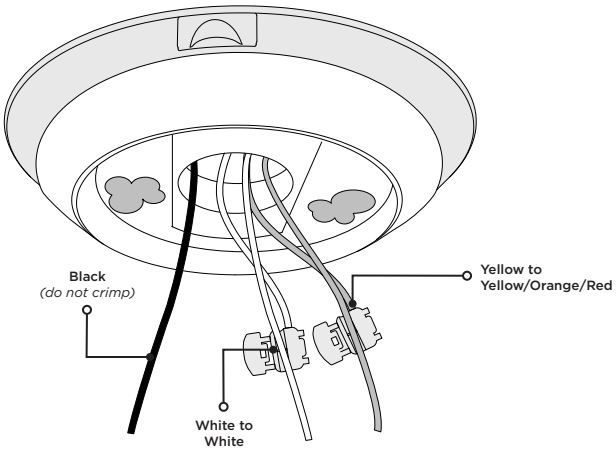


Figure 3: Connecting the 1166's Wiretaps

5 WIRE THE 1166

Follow these steps to connect the wires on the 1166 to the smoke alarm pigtail wires. The 1166 only connects to the white neutral and yellow, orange, or red interconnect wires. The interconnect has a maximum voltage of 9.0 volts.

Caution: Do not crimp a wiretap onto the hot black wire.

1. Place the 1166's yellow wiretap over the yellow, orange, or red signal wire and crimp it in place using pliers. See Figure 3.
2. Place the 1166's white wiretap over the white neutral wire and crimp it in place using pliers.
3. Fit the wires back into the wiring opening in the smoke alarm mounting base.
4. Reconnect the pigtail connector to the smoke alarm and twist the smoke alarm back into place on its mounting base.
5. Turn power back on at the breaker to complete the installation.

6 INSTALL OR REPLACE THE BATTERY

The 1166 is powered by a 3.0V lithium CR2477 battery inserted into a sliding tray. When the battery gets low, a LOBAT message is sent to the panel. When the **LOBAT** message appears on the keypad, replace the battery and perform a sensor reset by following the process below. For optimum battery life, DMP recommends replacing the battery with a DMP Model CR2477 or a Sony/Murata CR2477.

1. Slide open the battery tray on the side of the 1166.
2. Observing polarity, insert a 3.0V lithium CR2477 battery into the battery tray. The positive (+) side of the battery should face the same direction as the positive (+) mark on the battery tray. See Figure 4.
3. Close the battery tray.

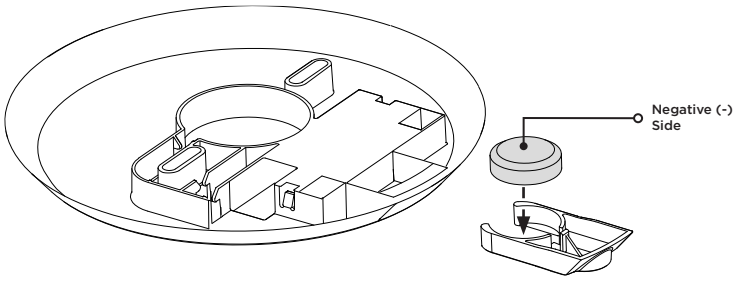


Figure 4: Inserting the Battery

Sensor Reset to Clear LOBAT

Once the battery is replaced, a sensor reset is required at the system keypad to clear the **LOBAT** message.

1. On a Thinline keypad, press and hold "2" for two seconds. On a touchscreen keypad press **RESET**.
2. Enter your user code, if required.
3. The keypad displays **SENSORS OFF** followed by **SENSORS ON**.

7 TEST THE 1166

After you have installed the 1166, perform the following tests to ensure that the 1166 is successfully sending messages to the panel. These tests can be performed on any of the system's smoke alarms.

Press the Test Button

Press the Test button on any of the smoke alarms. If the 1166 is communicating properly, an alarm message on the 1166's zone will be transmitted to the panel.

Smoke Testing

1. Use canned smoke or a smoldering punk to direct smoke into the openings of one of the smoke alarms for 20 seconds or until it goes into alarm.
2. The alarm's red LED should stay on and the panel should recognize an alarm. Use the system reset switch to reset the alarm.

Caution: Remember to extinguish the smoke source after testing.

Interconnection Test

Test each smoke alarm and confirm the 1166 activates properly. Ensure the control panel is notified for every smoke alarm within the protected area.

FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

INDUSTRY CANADA INFORMATION

This device complies with Industry Canada Licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

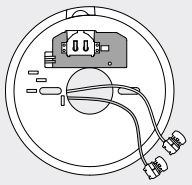
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. *l'appareil ne doit pas produire de brouillage, et*
2. *l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

L'antenne utilisée pour cet émetteur doit être installée de façon à offrir une distance de séparation d'au moins 20 cm (7.874 in.) De toute personne. Il ne doit pas être placé ou utilisé conjointement avec une autre antenne ou un autre émetteur.

1166 WIRELESS SMOKE RING



Specifications

Battery	
Life Expectancy	6 Years (normal operation)
Type	3.0V Lithium CR2477
Frequency Range	905-924 MHz
Dimensions	6.5" W x 0.5" H
Color	White
Housing Material	Flame retardant ABS

Replacements

CR2477 3.0V Lithium Battery

Compatibility

1100XH Wireless Receiver Version 105 or higher
XT75 Control Panels
XR Series Control Panels

1100DH Wireless Receiver Version 105 or higher
XT30/XT50 Control Panels

Built-in Wireless Receiver
XTL Series Control Panels
XT50 Control Panels
Version 101 or higher
XT75 Control Panels

The 1166 has been tested with the following smoke alarms by Intertek:

- BRK Brands Model 7010B
- Kidde Model i4618
- First Alert BRK Model 9120B
- Kidde Model i12040
- USI Electric Model 5304

Certifications

FCC Part 15 Registration ID CCKPC0194
Industry Canada Registration ID 5251A-PC0194
Intertek (ETL) Listed
ANSI/UL 985 Household Fire Warning System

Patents

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

Designed, engineered, and manufactured in Springfield, Missouri using U.S. and global components.
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