

# **Lifeline® Systems AT410 User and Installation Guide**

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<http://www.lifelinesystems.com>

# AT410 Installation Instructions

This document describes how to install the AT410 Adaptable Transmitter. The AT410 is connected to a smoke detector in a Senior Living facility. It provides a secondary signal which can help isolate the specific location of an emergency when the smoke detector goes off.

**Note:** This installation must be performed by a licensed electrician or a certified maintenance technician authorized to access the primary smoke detectors in the facility.

Figure 1 shows the top and bottom view of AT410 Adaptable Transmitter.

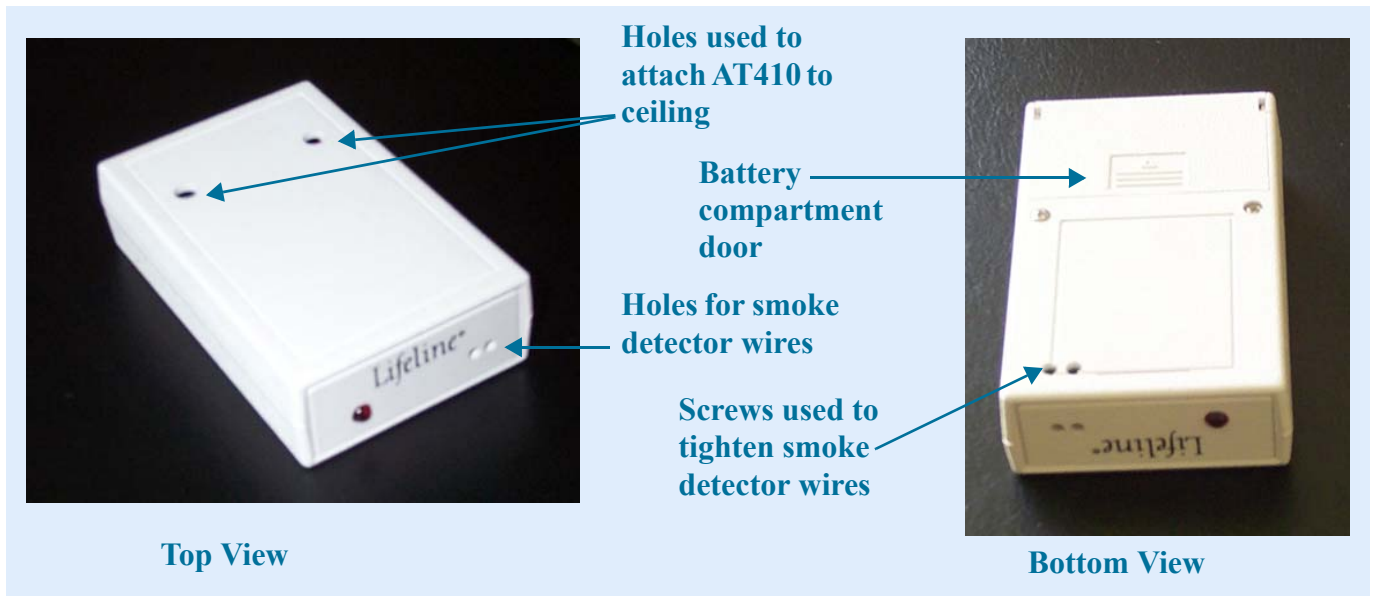


Figure 1: Top and Bottom View of AT410 Adaptable Transmitter

## Changing the Battery in the AT410

The AT410 uses a single 9V alkaline battery. You can replace the battery when the unit is installed on the ceiling or when it has been removed.

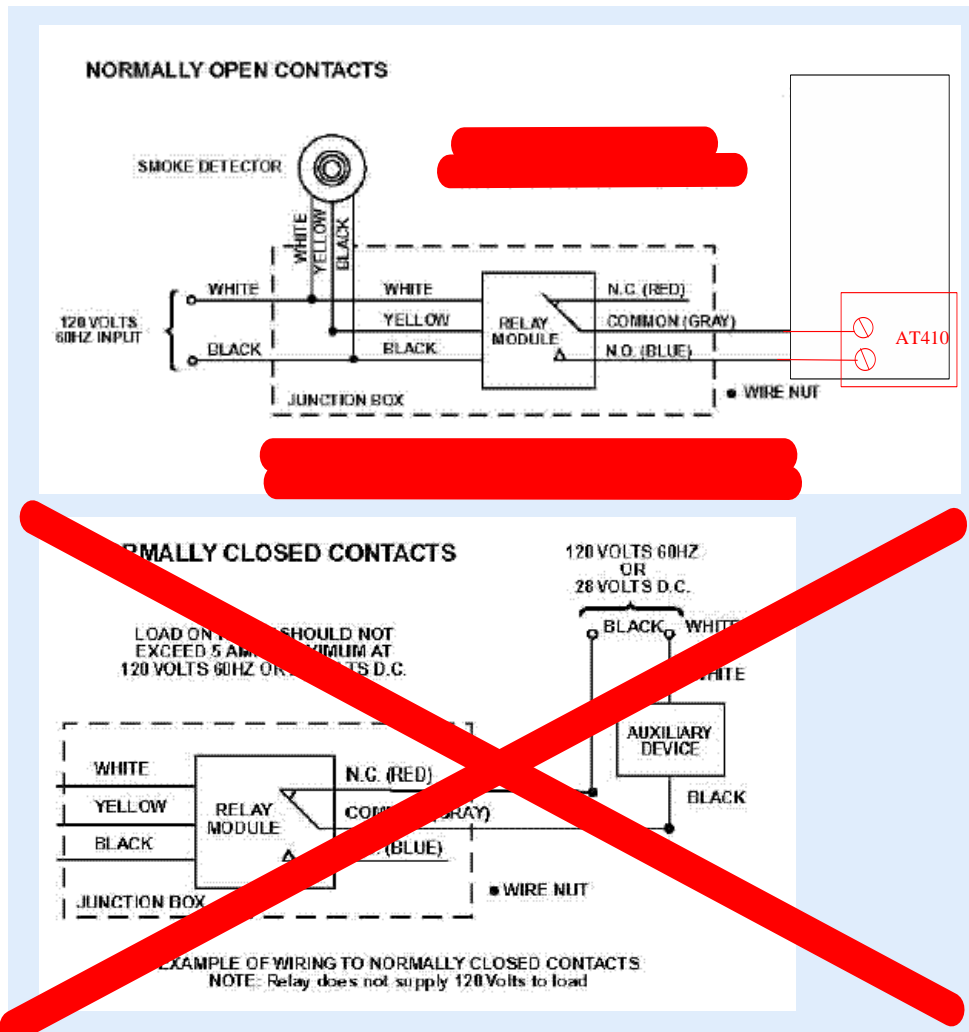
To change the battery:

1. Open the battery compartment door by applying light pressure to the door and pushing it in the direction of the arrow (see Figure 1 for location of battery compartment door).
2. Remove the 9V battery from the battery compartment.
3. Disconnect the battery connectors from the battery and properly dispose of the used battery.
4. Connect the battery connectors to a new 9V alkaline battery.
5. Insert the battery into the battery compartment.
6. Slide the battery compartment door back into place.

# Installing the AT410

To install the AT410 Adaptable Transmitter:

1. Using the wiring diagrams in [Figure 2](#), connect the AT410 to the smoke detector. You must provide the two wires that connect the AT410 to the smoke detector.



**Figure 2: Wiring Diagrams for AT410**

2. To secure the wires, loosen the two screws on the bottom of the unit (see [Figure 1](#)), then insert the wires into the holes on the front of the unit (see [Figure 1](#)), then tighten the screws to hold the wires in place.
3. Attach the AT410 to the ceiling beside the smoke detector by opening the battery compartment and removing the battery (you do not have to disconnect the battery). Insert two screws into the holes in the battery compartment (see [Figure 1](#)) and tighten them onto the ceiling.
4. Install the battery into the battery compartment and close the door.

## NOTICE TO THE USER

Any changes or modifications not expressly approved by Lifeline Systems, Inc. for compliance could void your authority to operate the equipment.

### **FCC AND INDUSTRY CANADA WARNING:**

This device complies with Part 15 of the FCC rules and RSS210 of Industry Canada. 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.

FIELD STRENGTH	Less than 5900 mV/m at 3m
OPERATING FREQUENCY	312 MHz
CHANNELING	1
MODE OF TRANSMISSION	Pulse Width Modulation
DATA SOURCE	Internal only
TYPE OF MODULATION	OOK
OCCUPIED BANDWIDTH	310 MHz - 320 MHz
POWER OUTPUT	5 microwatts

In order to determine the range of the communicator and its associated AT410 follow these instructions.

Press and hold the Reset bar to enter Test mode. The Reset bar must be pressed and held until the communicator announces, “**Start Test.**” Continue holding the Reset bar down and then press the test button of the smoke detector until the red LED on the AT410 illuminates ( a transmitting signal is sent when the red LED is illuminating), the Lifeline Communicator will respond “Smoke Learned”.

In order to confirm performance after installation is complete, place the Lifeline Communicator in Test Mode (as described above) and test the range by pressing the test button of each smoke detector connected to an AT410 one at a time in all locations within a unit/apartment. When the AT410 signal is received, the communicator will beep confirming proper performance.

Your AT410 is designed to be used in and immediately around your home .next to the hard wired smoke detector. The exact area of coverage will vary from one home to another. It is important for you to know the effective range of your AT410. Contact your Lifeline Service Provider for assistance.

For installation wiring diagram, see Figure 2 within this manual.

The AT410 is a supervised unit when used with Lifeline Communicator Models 6600, 6600S, 6700, or 9500.

#### **NOTE**

If the Response Center receives a Low Battery Button signal, Lifeline recommends that the 9-volt battery be replaced as soon as possible. Lifeline complies with a UL standard that requires the AT410 to operate for seven days after the Low Battery signal is sent. **Plan to replace this battery every 2 years.**

#### Important Maintenance, Safety and Operating Information

**\*DO NOT USE THE AT410 WITH LIFELINE COMMUNICATOR MODELS: 4500, 4000, 3500, 3000, 2500, 2000 AND HC/VC.**

**AT410 Safety Features:** Lifeline recommends using the AT410 with “Supervision COMPATABLE Lifeline Communicators. Features 1 and 2 are only enabled when the AT410 is used with these communicators.

1. The AT410 will periodically test its battery and automatically send a signal to the Response Center if the battery is low.
2. Provides a larger offering of ID codes to accommodate installations in apartments and senior housing.

~~provides protection against accidental disconnection of the  
Needed signal will be sent to the Response Center if the  
wireless signal is weak.~~

**Subscriber Testing:** Monthly testing is important and recommended by Lifeline. When interacting or corresponding with subscribers, reinforce the need for monthly testing. Test in accordance with the smoke detectors manufacturers recommended procedure.

**Equipment Repair:** Lifeline equipment is factory serviceable and must be repaired by Lifeline Systems, Inc. Any service performed by unauthorized personnel will nullify any warranty. Call Technical Support at 800-451-0525, ext. 1234, should your Lifeline Access™ Equipment need repair.

### **FCC Warning and User Notification Requirement**

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. Any changes or modifications not expressly approved by Lifeline Systems, Inc. for compliance could void your authority to operate the equipment.

### **INDUSTRY CANADA**

This apparatus complies with the class "B" limits for radio interference as specified in the Canadian Department of Communications Radio Interference regulations.

One or more of the following US Patents may apply to this product: D277,465, 4,524,243, 4,656,319, 4,760,593, 4,622,544, 4,908,602, 4,884,059, D313,363, D313,362, 4,064,368, 3,989,900, 5,091,930

One or more of the following Canadian Patents may apply to this product: 1,274,930, 1,256,613

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