ITI Part No. 60-917

Universal Fire Transmitter (UFT)

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Installation Instructions

About this Document

This document describes how to install, program and test the Universal Fire Transmitter (UFT).

Product Summary

The Universal Fire Transmitter is a supervised, battery powered transmitter designed to be connected to externally wired fire detection equipment. The transmitter reports signals from the fire detection equipment to the panel via wireless signals.

The UFT sends supervision transitions to the panel approximately every 64 minutes. An 4.7k Ohm end-of-line resistor must be installed between the UFT and the fire detection equipment for proper supervision of the UFT.

The UFT is equipped with a cover tamper and a reed switch designed to provide wall tamper protection.

> **Note** The 3.6-volt lithium battery cannot be replaced by installers or users. If you receive a low battery report, you must return the sensor to Interlogix for replacement.

Tools Needed

- ❑ #6 flathead screws or 18-gauge brads
- ❑ Screwdriver or brad driver
- ❑ Small wire cutters
- ❑ 5/8” drill bit
- ❑ 13/16” drill bit (if mounted flush to a wall in a box)
- ❑ Tape measure or ruler
- ❑ pencil, pen or piece of chalk

Installation

The Universal Fire Transmitter can be installed on a wall or in a non-metallic electrical box.

General Sensor Installation Guidelines

- ❑ Keep all sensors within 200-300 feet of the nearest transceiver module.
- ❑ Mount sensors with screws or brads, not double-stick tape.
- ❑ Place sensors at least 5 inches above the floor to avoid damaging them.
- ❑ Use spacers (not included) to keep sensors and magnets away from metal or metallic surfaces such as foil wallpaper.
- ❑ Avoid mounting sensors in areas with a large quantity of metal or electrical wiring, such as a furnace or utility room.
- ❑ Avoid mounting sensors in areas where they will be exposed to moisture.
- ❑ Avoid mounting sensors in locations where the operating temperature (10° to 120° F) will be exceeded.

CAUTION
Do not remove the jumper from the sensor circuit board! The sensor cannot work without the jumper.

Install on a Wall

1. Determine a suitable location for the UFT.
2. Mark where the magnet will be installed.
3. Drill a 3/4” diameter hole 3/4” deep into the wall.
4. Push the magnet into the hole, magnet side first.
5. Remove the UFT cover by squeezing the cover ends firmly to release the tab on the cover from the slot on the UFT base.
6. Remove the circuit board from the UFT base by pulling back the plastic tab and lifting the battery to release the circuit board.
7. Mark where the UFT will be installed over the magnet. See Figure 1 for acceptable magnet locations for a wall mounted UFT.

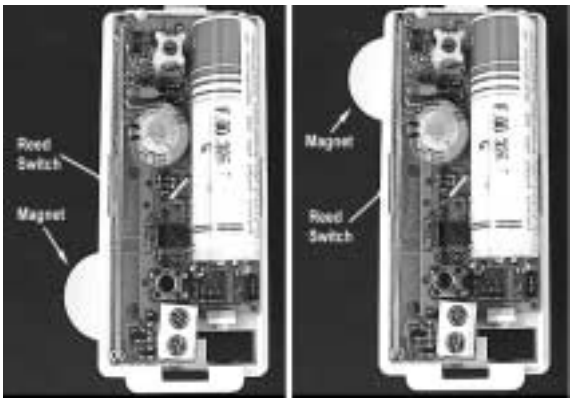

Figure 1. Acceptable magnet locations for a wall mounted UFT.

8. Verify the UFT reed switch is properly aligned with the installed magnet.
9. Mount the UFT base with screws or brads. Use spacers to compensate for metal surfaces or height variations.

10. Reattach the circuit board to the UFT base
11. Attach the External Switch (See “Connecting External Switch” in this manual)
12. Reattach the UFT cover to the UFT base.

Install in an Electrical Box

Use a 4”x4” non-metallic electrical box that is at least 1½” deep.

Mounting the box on a wall

In this installation method the UFT is mounted in an electrical box attached to a wall. The magnet is installed in the wall and passes through the box.

1. Determine a suitable location for the UFT.
2. Mark where the magnet will be installed.
3. Drill a 3/4” diameter hole 3/4” deep into the stud or wall.
4. Mark where the box will be installed over the magnet.
5. Mark the box at the location where the magnet will enter the box.
6. Drill a 13/16” hole in the box at the magnet location.
7. Mark where the UFT will be installed on the box.
8. Verify the UFT reed switch is properly aligned with the magnet hole.
9. Mount the box using screws or brads making sure to align the hole in the box with the hole in the wall or stud.
10. Push the magnet, magnet side first, through the hole in the box and into the hole in the stud or wall. The top of the magnet should be flush with the side of the box.
11. Mount the UFT in the box using velcro strips.
12. Remove the UFT cover by squeezing the cover ends firmly to release the tab on the cover from the slot on the UFT base.
13. Attach the External Switch (See “Connecting External Switch” in this manual)
14. Reattach the UFT cover to the UFT base.

Mounting the box in a wall

In this installation method the UFT is mounted in an electrical box permanently installed in a wall. The magnet is installed in the box.

1. Determine a suitable location for the UFT.
2. Mark the box at the location where the magnet will be installed.
3. Drill a 3/4” hole in the box at the magnet location.
4. Insert the magnet into the hole.
5. Mark where the UFT will be installed on the box
6. Verify the UFT reed switch is properly aligned with the magnet.
7. Mount the box in the wall using screws or brads.
8. Mount the UFT in the box using velcro strips.
9. Remove the UFT cover by squeezing the cover ends firmly to release the tab on the cover from the slot on the UFT base.
10. Attach the External Switch (See “Connecting External Switch” in this manual)
11. Reattach the UFT cover to the UFT base.

Connecting External Switch

The normally open UFT (60-917) should be connected to a normally open external switch.

Connection Guidelines

- ❑ Do not use mechanical switches.
- ❑ Do not use more than 100feet of 18-gauge, stranded or solid core wire in any wire run.
- ❑ Do not use more than 6 feet of untwisted wire in any wire run.
- ❑ Do not run wires parallel to electrical wires. If you can’t avoid a parallel wire run, keep at least 18 inches away from electrical wiring.

Note If necessary, you may cross electrical wires at a 90 degree angle.

Making the Connection

1. Make the connection to the external fire detection device. (See your device’s instructions.)

Important ! A 4.7 k Ohm EOL resistor must be installed at the fire detection device for proper supervision of the UFT.

2. Feed the wire through the hole in the bottom of the UFT.
3. Attach the wire to the terminal block. See Figure 2.

Note It may be beneficial to feed the wire through the hole before mounting the UFT.

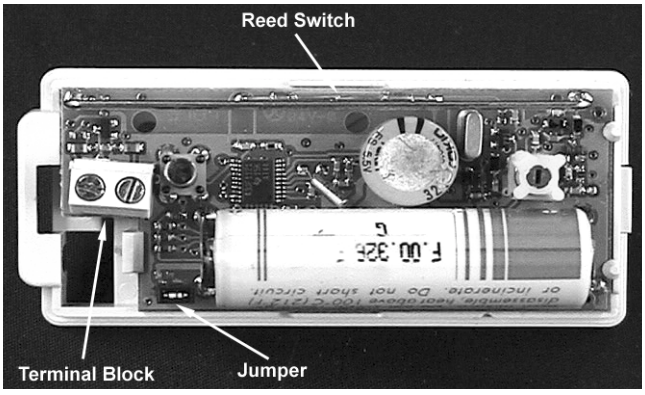

Figure 2. UFT component locations.

Programming

The following steps describe the general guidelines for programming (learning) a sensor. Refer to the specific panel

instructions or reference manual for complete programming details.

1. Set the panel to program mode.
2. Proceed to the LEARN SENSORS menu.
3. Select the appropriate zone type and zone number assignments.
4. Set the external switch in the alarm condition (open for a normally closed circuit, closed for a normally open circuit).
5. Trip the sensors tamper switch by removing the sensor cover.
6. Exit program mode.
7. Place the cover back on the sensor.

Testing

The following steps describe the general guidelines for testing the sensor. Refer to the specific panel installation instructions or reference manual and the instructions for the external switch for complete testing details.

1. Set the panel to the installer zone test mode.
2. Trip the sensor.
3. The signal strength from the UFT will be displayed on all keypads. It should be 15 or higher for proper operation.

Specifications

Operating Temperature

Range: ..... 10° to 120° F

Compatibility: ..... Advent Commercial Fire 250 Zone (60-562-03)
Advent Commercial Fire 132 Zone (60-562-06)
Advent Commercial Burg 250 Zone (60-562-01)
Advent Commercial Burg 132 Zone (60-562-04)

Power Source: ..... 1 AA 3.6-volt lithium battery (not replaceable)

Transmit Range: ..... At least 500 feet, open air

FCC Notice

FCC Part 15 Information to the User

Changes or modifications not expressly approved by Interlogix, Inc. can void the user's authority to operate the equipment.

FCC Part 15 Class A

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case users will be required to correct the interference at their own expense.

FCC Part 15 Class B

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 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 affected equipment and the panel receiver to separate outlets, on different branch circuits.
- ❑ Consult the dealer or an experienced radio/TV technician for help.

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2266 Second Street North | North Saint Paul Mn | 55109 | 800-777-2624 | www.interlogixinc.com