EL-2635
Repeater

INSTALLATION GUIDE

Introduction

The EL-2635 is a wireless repeater designed to extend the range of wireless devices registered to the control system. Up to four repeaters can be registered to the control system with 32 transmitters registered to each repeater. The repeater is powered by either 9VAC with a 6V rechargeable backup battery pack or 12VDC*. Registration and maintenance tests are performed using a plug-in LCD programming keypad that provides a comprehensive interface to the repeater.

UL NOTE: Operation with 12VDC power source has not been evaluated by UL

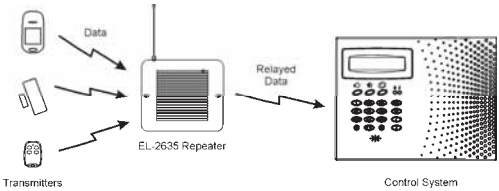

Figure 1: Typical Single Repeater Application

Installation

1. Register all wireless devices to the control system as explained in the control system installation manual.
2. On the control system, define the detection devices that are intended to transmit via the repeater as follows:
   - From the Programming menu, select Devices, Zones [911].
   - Select the zone you want to program (1-32).
   - From the zone's sub-menu, select Repeater [#9].
   - Select "Use Repeater".

   Note: It is not necessary to define, at the control system, the keypads and keyfobs that are registered to the repeater.
3. Open the EL-2635's plastic housing. To do so, remove the two cover screws and lift the front cover away from the base.

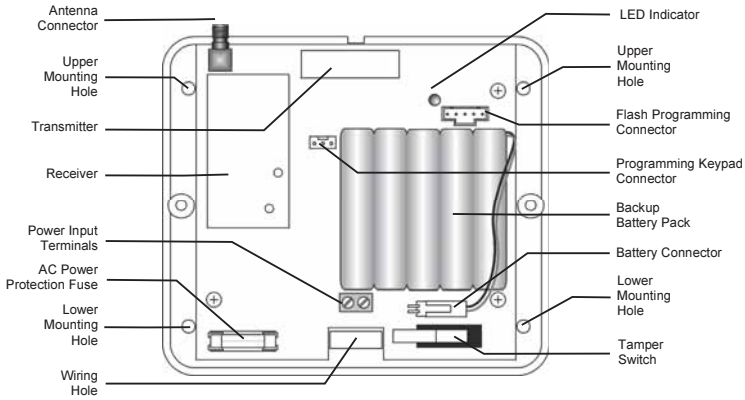

Figure 2: EL-2635 (cover removed)

4. Connect the antenna provided to the antenna connector.
5. Connect a 9VAC [No. 1332] transformer or 12VDC to the Power input terminal block (polarity is not important when connecting AC to the terminal block). In North America, plug the transformer into a 24-hour source of 120VAC that is not controlled by a switch.

   All registration and test functions, described in the following sections, are performed from the LCD programming keypad (ELPN 5200250) shown in Figure 3.

   Note: Wait for approx. 20 seconds between applying AC power and connecting the programming keypad.
6. Connect the programming keypad to the Programming Keypad connector.

   Note: The programming keypad (5200250) is not able to operate on battery power only.
7. Test the repeater from the required mounting location before permanently mounting the unit.
8. Connect the backup battery pack to the Battery connector.
9. Mount the base to the wall using four screws and replace the front cover.

When the tamper switch is open, the bi-color LED provides indication regarding repeater transmission and reception as an aid during the installation procedure – *see Table 1*. When the tamper switch is closed, the bi-color LED provides indication regarding power status – *see Table 2*.

LED Indication	Description
Flashing Green	Signal Reception
Flashing Red	Signal Transmission

Table 1: LED Indication (Tamper Open)

LED Indication	Description
Steady Green	AC & Battery OK
Flashing Red	AC Loss
Flashing Orange	Low Battery

Table 2: LED Indication (Tamper Closed)

Registering the Repeater to the Control system

For the control system to recognize the repeater, you must register the repeater to the control system.

To register the repeater to the control system:

1. Set the **control system** to Registration mode as follows:
   - From the Programming menu, select Devices, Repeaters [914].
   - Select the repeater you want to register (1-4).
   - From the repeater's sub-menu, select Register [#1].
2. Send two Status transmissions from the **repeater** as follows:
   - On the programming keypad, press ▼ until ***5. STS Transmit*** appears on the display, press ✓ twice.

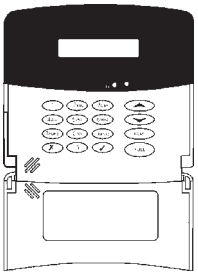

Figure 3: LCD Programming Keypad

3. Confirm registration to the **control system** as follows:
   - When ***Save?*** appears on the control system's LCD display, press ✓.

Note: A sensor should not be registered on more than one repeater or misoperation will result.

Registering Transmitters to the Repeater

You can register up to 32 transmitters to the EL-2635 repeater.

Note: Do not register the same transmitter to more than one repeater.

To register transmitters to the repeater:

1. On the LCD programming keypad, press ▼ until ***4. TX Register*** appears on the display.
2. Press ✓; ***New Device*** appears on the display.
3. Press ✓ again; ***Transmit 1*** appears on the display.
4. Send two transmissions from the device you want to register.
5. When the transmitter number and ***Save?*** appear on the display, press ✓ to confirm registration.

   Note: The EL-2635 repeater automatically allocates a transmitter number to each newly registered device. Write this number and the zone number on the sticker provided with the sensor and stick it inside the transmitter's cover for future reference.
6. After you have confirmed registration, the display returns to ***New Device***. Press ✓ to register another device or 🖷 to exit Registration mode.

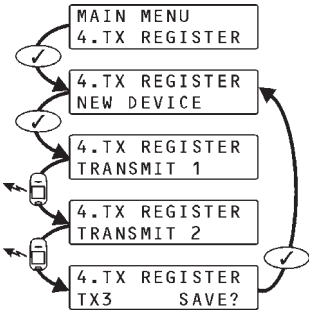

Figure 4: Transmitter Registration Procedure

Deleting Registered Transmitters

To delete transmitters from the repeater's register:

1. On the LCD programming keypad, press ▼ until ***3. TX Delete*** appears on the display.
2. Press ✓; the first transmitter in the list appears on the display.
3. Use the arrow navigation keys (▲/▼) to scroll to the transmitter you want to delete.
4. Press ✓ to select the transmitter.
5. Press ✓again for confirmation; the transmitter is deleted.
6. Select another transmitter to delete or press 🖷 to exit.

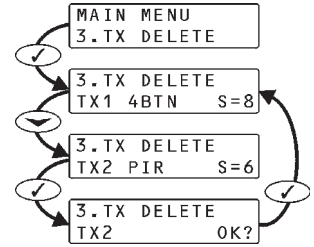

Figure 5: Delete Transmitter Procedure

Installer Utilities

The EL-2635 repeater offers two installer utilities that serve as a valuable aid during installation and maintenance.

TX List

The TX List is a scrollable inventory of all registered transmitters and their last reported signal strength.

To view the TX list:

1. Press ▼ until ***1. TX List*** appears on the display.
2. Press ✓; the first transmitter in the list is displayed.
3. Use the arrow navigation keys (▲/▼) to scroll through the list, press 🖷 to exit the list.

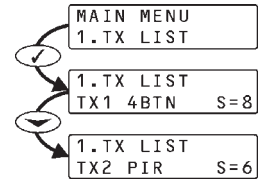

Figure 6: TX List Procedure

TX Test

TX Test is a utility that enables you to identify registered transmitters and test their signal strength.

To perform a TX test:

1. Press ▼ until ***2. TX Test*** appears on the display.
2. Press ✓.
3. Activate a transmitter; the transmitter number, type and signal strength are displayed, press 🖷 to exit TX Test mode.

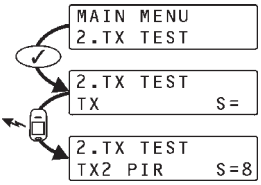

Figure 7: TX Test Procedure

Technical Specifications

Frequency: 868.35MHz, 433.92MHz or 418MHz FM
UL Note: UL has only evaluated operation at 418MHz
Antenna: External Whip
Operating Voltage: 9VAC (No. 1332) or 12VDC
Backup Battery: 6V/850mAh (ELPN BT5757)
(5 x 1.2V Ni-MH rechargeable cells, size AAAL)
Current Consumption: 100mA max. (during transmission)
Number of Transmitters: 32 max.
Tamper Protection: Front Cover (N.C.)
Operating Temperature: 0-60°C (32-140°F)
Dimensions: 123 x 109 x 27mm (4-7/8"W X 4-1/4"H X 1"D)

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