

## LIMITED WARRANTY

Absolute Automation Inc has a limited warranty for a period of one year after installation. During this year a defective Absolute Automation Inc product will be repaired or replaced. This warranty does not extend to any of our products which have been subject to misuse, accident or lightning damage.

Absolute Automation Inc does not represent that the product it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products in all cases provide adequate warning or protection. CONSEQUENTLY, ABSOLUTE AUTOMATION INC SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY PROPERTY DAMAGE OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. However, if it is held liable, whether directly or indirectly, for any loss or damage with respect to the products it manufactures, regardless of cause or origin, its maximum liability shall not in any case exceed the purchase price of the product, which shall be the complete and exclusive remedy against Absolute Automation Inc.

### Manufacturer's Limited Warranty

This product is warranted against defects in material and workmanship while used in normal service for a period of one year from the date of sale to the original consumer purchaser.

Our obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to Absolute Automation.

# Tone/Vibrating Property Pager

Model 35E70

## Installation and User Instructions



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**TRIGGER DURATION**

The pager will transmit the page signal for a cycle of about 30 seconds, whether or not the triggered zone (example: Optex Receiver or an open door) is reset. If the same zone stays triggered (i.e the door remains open), the transmitter will not start a new transmission cycle. However, a new cycle will start once another untriggered zone is triggered.

**ALARM PAGING** (Press ON/OFF button to stop beeping)

The receiver will beep continuously for 3 minutes, at 9 beeps per group, when it receives an alarm page signal from the transmitter. The digital LED display will show which system is sending the signal (A,B or C). Press the ON/OFF button down once, and the digital LED display will show which zone was triggered (1 or 2).

**MANUAL PAGING** (Press ON/OFF button to stop beeping)

The receiver will beep continuously (3 groups of 3 beeps per group) for 3 minutes, when it receives a manual page signal (the user pushes the manual paging button). The digital LED display will show which system is sending the signal (A,B or C). Press the ON/OFF button down once, and the digital LED display will show "7" to indicate manual paging.

**POWER-ON PAGING** (Press ON/OFF button to stop beeping)

The receiver will beep continuously (3 groups of 3 beeps per group) for 3 minutes, if it is already turned on when the transmitter is first connected to power. The digital LED display will show which system is sending the signal (A,B or C).

**RECEIVER POWER-ON**

The receiver will beep once each time the receiver is turned on.

**UNATTENDED INDICATOR**

The receiver will beep once every 60 seconds to remind the user that it received a page signal from the transmitter which the user has continued to ignore. Press the ON/OFF switch to stop the beeping and display the new signal.

**LOW BATTERY INDICATOR**

At power on, the receiver will beep twice following the power on beep, if the batteries are low and need replacement. Thereafter, the receiver will beep 2 times every 5 minutes when the batteries are low and need replacement. The digital LED display will show "L" each time the receiver ON/OFF switch is pressed if batteries are low.

**VIEWING THE PAGE MEMORY**

1. The receiver remembers the last 6 page signals received. (However, two consecutive page signals carrying the same information will be treated as one.) Scroll back the memory history by pressing the ON/OFF switch repeatedly. The page signals will be shown one by one, starting with the most recent. Keeping the ON/OFF switch depressed will repeatedly display the currently-shown signal.
2. The digital LED display will show "---" to inform you that you have seen all the pages in memory, or that there is nothing stored in memory.
3. Turning off the receiver will erase all stored signals,

**REMOTE MANUAL PAGING BUTTON**

Connect the modular cable of the REMOTE MANUAL PAGING BUTTON to the MAIN UNIT. Mount the button in a location where it can be easily accessed.

**INTRODUCING THE PROPERTY PAGER model 35E70**

The PROPERTY PAGER 35E70 is a sophisticated paging system. It consists of two parts: a transmitter which includes trigger and timing circuitry, and the matching receiver (the "beeper"). The transmitter has a maximum output power of 4 watts as allowed by the FCC. The efficient low-loss circuit design permits higher signal transmission power, and the compact ultra-sensitive pager receiver can sense the transmitted signals up to 2 miles away, as long as a good antenna is properly connected to the transmitter.

The PROPERTY PAGER 35E70 transmitter is usually mounted in a building near the Optex Receiver. A page signal is sent by the transmitter upon the Optex activation or manual page. The page signal is received by the small, highly sensitive, light-weight receiver. The receiver beeps and the digital LED lights to warn you when it receives its own specially coded page signal.

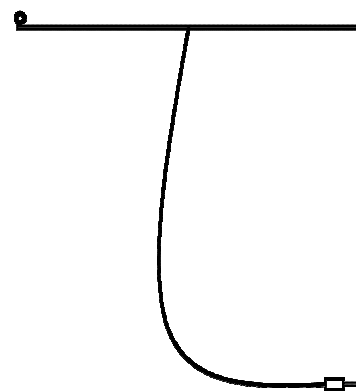
The system is easy to install in any type building. The two 1.5V AAA-sized batteries in the receiver will last several months with normal use. The receiver can be programmed to receive page signals from 3 separate systems.

**INSTALLATION CONSIDERATIONS**

Carefully study how and where you will install the transmitter before you start. The best place to mount the transmitter is usually on a wall near power and the driveway alarm receiver. Mount the remote manual paging button in a location where it can be easily accessed when needed.

**NOTE: Do not power up the transmitter before the antenna connections are made. This may damage the transmitter.**

**The warranty may be voided if components or accessories are not mounted properly.** After you have decided where to mount the transmitter, the next step is to connect the antenna to the transmitter. **You MUST connect an antenna before testing.**

**Installing the dipole antenna.**

Unfold the antenna and hang on a wall, between 2 posts, from a ceiling or anywhere convenient. It may be fastened to an outside (non-metallic) wall and the lead in wire brought into the house through a small hole. For best transmission range, try to keep it away from large metal objects. It may be supported using tape, small screws, nails or wire to hang the antenna in the "T" configuration shown in the picture left.

## PROGRAMMING THE RECEIVER TO LEARN A TRANSMITTER CODE

The transmitter's page code is pre-set at the factory to 1 of over 1 million possibilities. The receiver has to learn the transmitter's page code before it can receive signals from that transmitter. The receiver can learn the page codes of up to 3 transmitters using the following procedure:

1. Turn the receiver OFF. Then press and hold down the ON/OFF switch, and slide it to the ON position. The digital LED display will show "=". Continue pressing and holding the button for about 3 seconds until the receiver beeps once. The digital LED display will flash "A" every 2 seconds. This means the receiver is ready to learn the page code from the transmitter.
2. Press the transmitter's remote manual paging button. This will send the page signal to the receiver. The receiver will beep 5 times and the digital LED display will turn off to confirm it has received and learned the code. The receiver will return to the standby state in about 4 minutes if it did not successfully learn the code.
3. To learn the page code from the second system and transmitter, press the receiver's ON/OFF switch once more so that the digital LED display turns to "b".  
Then repeat step 2. Repeat steps 3 and 2 again for the third system and transmitter if needed.

Remark: The receiver remembers the transmitter codes in an EEPROM IC. This memory is maintained even without power for a long period of time (over 1 year). The receiver does not need to re-learn the transmitter codes after battery replacement.

The stored system codes cannot be erased. They can only be written over by another code learning sequence.

## CONNECTING TO AN ANTENNA

The Property Pager transmitter can be connected to one of three types of antennas.

CB antennas offer greatest range, but require a special connector.

The Di-Pole antenna included is versatile and easy to install almost anywhere.

Regular car AM radio Antennas are convenient, and generally offer sufficient range. **Remember, you must connect the antenna before powering up the 35E70 transmitter. Otherwise, the unit will quickly burn out.**

## TRANSMISSION RANGE TEST

One person should trigger the alarm while another is in a house, office or wherever the page signal should reach. This will assure that the user will receive a signal for his/her particular application.

Press down the ON-OFF button each time the receiver beeps. This returns the receiver to the stand-by state, ready to receive the next coded signal.

Maximum transmission range is up to 2 miles. However, range can vary depending upon terrain, environmental conditions, type of antenna used, and so on. Range may vary greatly depending on where the car is parked and where the user is.

When using the Property Pager inside a building (especially a high-rise), keep the receiver near a window or a telephone to help increase the effective range.

NOTE: When performing the transmission range test, stand at least 3 feet (1 meter) away from the transmitter. If the receiver is too close to the transmitter, the signal may distort, causing erratic operation.

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## ADVANCED INSTRUCTIONS

### ADJUSTING THE TRANSMITTER/PAGE SIGNAL TEST

Since there are different types of antennas, the pager adapter must be adjusted to get the strongest signal for the type of antenna used. To do this, use a field strength meter. They can be purchased from most electronic component shops.

1. Connect the antenna, and turn the field strength meter ON. Apply power to the transmitter, and trigger it with the manual page button or any zone.
2. Tune L1 to get maximum power reading.
3. Then tune C1 to get maximum power reading.
4. Then tune C2 to get maximum power reading.  
Fine tune by repeating steps 2, 3 and 4.

## Pager/Driveway Alarm Quick Installation Notes

Install your Driveway Alarm system using the manufacturer's instructions. When you are satisfied that the driveway alarm is working properly you may add the paging system.

Mount the paging transmitter within 6' of the driveway alarm receiver. Mount the pager dipole antenna on a wooden window frame, wooden door frame, wall or ceiling. The antenna may be mounted inside or outside the building depending on the expected distance the pager is to be used. An exterior mount will greatly increase the range (up to 2 miles) but an interior mount will be satisfactory for 2000'. Be sure to keep the antenna away from metal objects and avoid using metal hardware to mount it other than screws through the rings at each end of the antenna. With the transmitter mounted, and the antenna positioned, you may now test the pager. **Never** activate the transmitter without the antenna. Turn the pager on to either tone or vibrate and push the small button that is wired to the back of the Paging transmitter. (this is your manual paging button)

Your pager should beep or vibrate a series of 3 times with each activation. These may be canceled at any time by pushing the paging button inwards.

Now you may connect the Paging System to the Driveway Alarm System. Attach the white wires from the Pager Transmitter to the COM. and N.O. screw terminals on your driveway alarm receiver. Refer to your driveway alarm instructions to locate these connections. Polarity does not matter.

Fasten all loose wires to reduce the risk of them being caught or pulled. The system assembly is complete!  
Now each time a car or person is detected by your driveway alarm, your vibrating/tone pager will alert you when you are not near the receiver.

Although this page of instructions should be all you need to get your system operating quickly please take time to read the more detailed instructions on the driveway alarm system and the following advanced instructions to give you a better understanding of their unique features.

## Advanced Wiring Options of the Property Pager 35E70 Trigger Wires

The Paging System includes positive and a negative trigger wire. Either one of these two wires can connect to a burglar alarm, or other momentary contact. When the burglar alarm is violated, these trigger wires sense the burglar alarm's output and trigger the Pager.

### POSITIVE TRIGGER: PURPLE WIRE

This wire connects to an alarm output which outputs + 12V when the alarm is triggered. (The trigger signal must be at least 1 second long in order to trigger the pager.) In most alarms, this is the positive siren output.

### NEGATIVE TRIGGER: BLUE WIRE

This wire connects to an alarm out put which outputs ground when the alarm is triggered. (The trigger signal must be at least 1 second long in order to trigger the pager.) This could be a negative siren output.

### THE GROUND AND POWER CONNECTIONS

Ground: A good ground connection is essential. Connect the pager transmitter black ground wire to Negative 12 Volts DC, or connect directly to the negative terminal of a heavy-duty 12V battery.

12Volt DC Power: Connect the pager transmitter red power wire to 12 Volts DC, or connect directly to the positive terminal of a heavy-duty 12V battery.

### CHART – UNDERSTANDING THE RECEIVER'S DISPLAYS AND BEEPS

| RECEIVER or BUILDING NUMBER | TRIGGERED BY WHICH INPUT | RECEIVER DISPLAY    |                           |                 |
|-----------------------------|--------------------------|---------------------|---------------------------|-----------------|
|                             |                          | DIGITAL LED DISPLAY |                           | NUMBER OF BEEPS |
|                             |                          | INITIAL DISPLAY     | AFTER PRESS ON/OFF SWITCH |                 |
| A                           | Purple wire              | A                   | 1                         | 9               |
| A                           | Blue wire                | A                   | 2                         | 9               |
| A                           | Manual page              | A                   | 7                         | 3 groups of 3   |
| A                           | Power ON                 | A                   | NONE                      | 3 groups of 3   |
| B                           | Purple wire              | b                   | 1                         | 9               |
| B                           | Blue wire                | b                   | 2                         | 9               |
| B                           | Manual page              | b                   | 7                         | 3 groups of 3   |
| B                           | Power ON                 | b                   | NONE                      | 3 groups of 3   |
| C                           | Purple wire              | C                   | 1                         | 9               |
| C                           | Blue wire                | C                   | 2                         | 9               |
| C                           | Manual page              | C                   | 7                         | 3 groups of 3   |
| C                           | Power ON                 | C                   | NONE                      | 3 groups of 3   |