



**K-TECH  
EMERGENCY  
DIALER  
INSTRUCTION  
BOOK**

Please read carefully before  
installation and operation

**New Wave™**

**Model ET701 Dialer**

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## INTRODUCTION

The New Wave™ Emergency Dialer from K-Tech is a touch-tone automatic dialer designed to help provide reliable communication in the event of an emergency.

The New Wave™ is powered by a standard analog two-wire telephone line. When triggered, the unit will automatically dial the programmed number (up to 20 digits including pauses).

The New Wave™ Emergency Dialer is recommended for use with K-Tech Emergency Speakerphone models Sentry (ET501A), Fortress (ET1001A), Commander (ET501A-OEM), and Liberator (ET501A-LP).

## KEY FEATURES SUMMARY

- Fully powered by the telephone line
- Automatically dials a preprogrammed emergency number when activated

## PRE-INSTALLATION CHECK-LIST

Tools Required:

- multimeter
- small flathead screwdriver
- wire cutters
- long-nosed pliers
- a “live” telephone line (CO or PBX) installed and terminated at the elevator machine room

## TELEPHONE LINES

For best operation and ADA code compliance, we recommend a single, touch-tone telephone line. Compatible line types are standard analog, two-wire central office lines from the local telephone company or some internal PBX systems.

The telephone line will be assigned a telephone number which allows the called party to call back to the location of the emergency. Take care to note this number and supply it to the called party.

### RECOMMENDED TELEPHONE LINE SPECIFICATIONS

<b>Line Voltage</b>	48 VDC ( $\pm 3$ VDC) on-hook voltage
<b>Loop Current</b>	30 mA minimum (lower current will cause low volume and misdialing)

## WIRING

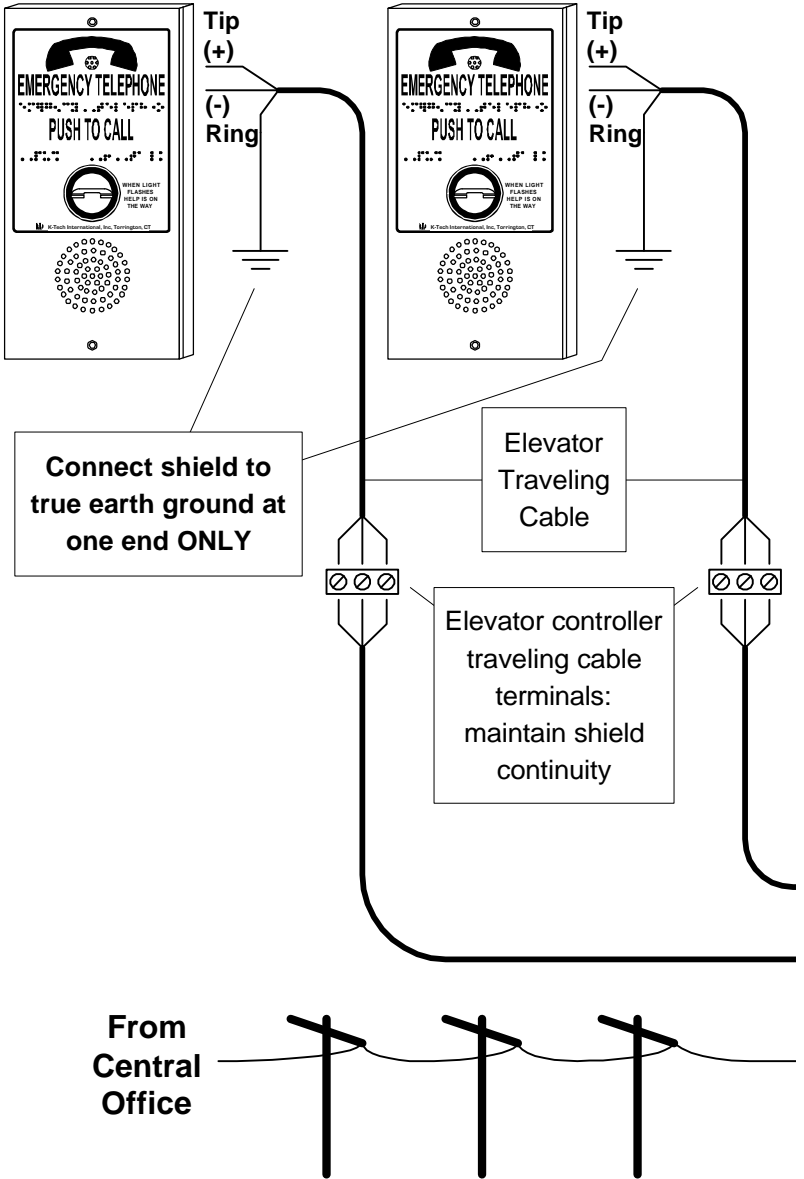
The incoming telephone line should be terminated with an RJ11 type modular jack in the elevator control room or telephone equipment room.

We **strongly recommend** that the wires used to supply the telephone line to the K-Tech Emergency Speakerphones be **20 AWG shielded, twisted** pair. This shield should be continuous from the New Wave™ Emergency Dialer through the traveling cable to the remote telephone units. Make sure the shield is connected to a **true earth ground** at **ONE end ONLY!** This will minimize interference from AC inductance and RF.

**Note: Maintain proper Tip/Ring polarity throughout the installation. Use a multimeter to verify the polarity at the phone: Tip is (+); Ring is (-).**

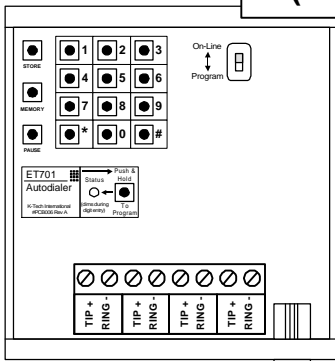
**Note: We emphasize the use of a dedicated telephone line for each New Wave™ Emergency Dialer. Sharing a line with other devices can cause problems such as misdialing, low volume, and unreliable call back.**

# K-Tech Emergency Speakerphones

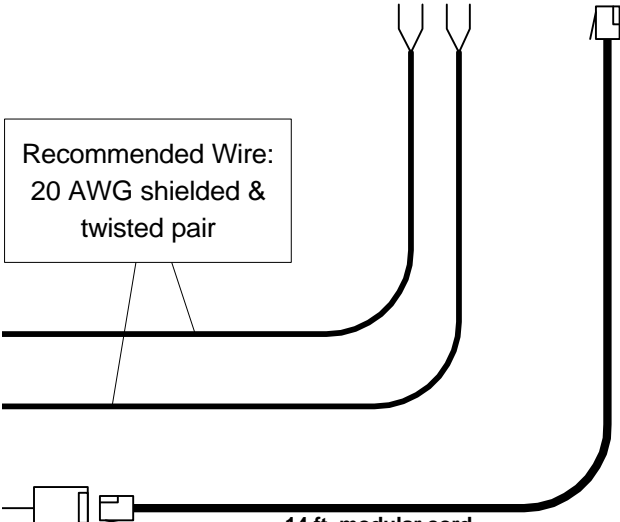


**IMPORTANT:**  
maintain proper TIP and RING polarity throughout installation  
**TIP is (+) Ring is (-)**

**New Wave™  
Emergency  
Dialer  
(ET701)**



Recommended Wire:  
20 AWG shielded &  
twisted pair



**Figure 1: Wiring  
Diagram**

## DESCRIPTION/INSTALLATION

### New Wave™ (ET701)

- aluminum enclosure mounts to flat surface
  - dimensions:  $4\frac{3}{4}$ " (12.1 cm) H x  $4\frac{3}{8}$ " (11.1 cm) W x  $1\frac{5}{16}$ " (3.3 cm) D
1. Find a suitable mounting location near the RJ11C type modular jack (within the length of the included modular cord). **Be sure to locate the unit away from sources of AC noise, such as lighting fixtures, conduits, and the elevator controller.**
  2. Mount the enclosure using the four adhesive strips on the back and/or the keyslots spaced 2" (5.1 cm) apart.
  3. Route the modular cord to the RJ11C type modular jack. Do not connect at this time. **Be sure to route the cord away from sources of AC noise, such as lighting fixtures, conduits, and the elevator controller.**
  4. Install the K-Tech Emergency Speakerphones. (Refer to the K-Tech Emergency Speakerphone Instruction Book)
  5. Refer to the wiring diagram (Figure 1) and make all necessary connections. Do not connect the batteries to the K-Tech Emergency Speakerphones at this time.
  6. Plug the modular cord into the RJ11C modular jack.
  7. Proceed to *PROGRAMMING* on page 7 (or refer to the inside cover of the dialer enclosure). Be sure to write the emergency telephone number on the label on the inside cover of the New Wave™ Emergency Dialer.
  8. Connect the batteries to the K-Tech Emergency Speakerphones.
  9. Test the system.
  10. Close and secure the cover of the New Wave™ Emergency Dialer.

## PROGRAMMING

Programming is done after the New Wave™ Emergency Dialer is connected to a live telephone line.

1. Plug the modular cord into the RJ11C modular jack
2. Place *Program/On-Line* switch to *Program* position
3. Press and hold the *PROGRAM* button and wait 5 seconds
4. Continue to hold the *PROGRAM* button and press *STORE*, then *MEM*, then "0", enter the emergency telephone number to be dialed, then press *STORE* again
5. Finally, release the *PROGRAM* button
6. Place *Program/On-Line* switch to *On-Line*

*Note: some internal telephone (PBX) systems require an "access digit" to secure an outside telephone line (e.g. "9"). A PAUSE may be needed between the "9" and the rest of the telephone number.*

*Examples:           long distance: 9 PAUSE 1-234-567-8900*  
*local:                 9 PAUSE 123-4567*

## TESTING

1. **Connect the batteries to the K-Tech Emergency Speakerphones.**
2. **Press the activating push-button of the K-Tech Emergency Speakerphone.** Dial tone will be heard for a few seconds, then the automatic dialing will commence.
3. **Close and secure the cover of the New Wave™ Emergency Dialer.**

***Note: Make sure wiring does not interfere with components and keypad when finalizing installation.***

***Note: This equipment should be tested on a periodic basis.***

## TROUBLE SHOOTING

1. **When the K-phone is activated, dial tone is heard, but the emergency number is not dialed.**
  - Check to be sure the *Program/On-Line* switch is in the *On-Line* position.
  - Try reprogramming the number to be dialed.
2. **When activated, the K-phone dials, but the dial tone never goes away.**
  - Check with the telephone company to be sure that the telephone line is not a rotary (pulse) dial line. Line must be touch-tone compatible.
3. **The K-phone dials but doesn't connect. Get a message from the CO or a fast busy signal.**
  - Verify that the correct emergency telephone number is programmed, and the number is working.
  - If dialing from an internal (PBX) system, verify that the proper access number (typically "9") is dialed, and that there is a *PAUSE* inserted between it and the phone number to allow for the CO dial tone to occur.
4. **The New Wave™ Emergency Dialer loses memory.**
  - The K-phone(s) should be installed on shielded, twisted pair. The shield wire should be continuous from the elevator through the controller and grounded to a true earth ground at one end only.

**For Technical Support call:  
800-993-9399 or 860-489-9399**

## SPECIFICATIONS

<b>Power Requirements</b>	Unit is phone line powered (Page 4)
<b>Programming</b>	Integral keypad entry
<b>Dialing Mode</b>	Tone (DTMF)
<b>Digit Capacity</b>	Up to 20 digits (including pauses) can be stored (pause duration is 1.5 seconds)
<b>Connection</b>	Parallel - Tip and Ring to modular RJ11C connector
<b>Circuit Protection</b>	Varistor lightning suppressor and full wave polarity guard
<b>FCC Registration #</b>	10MUSA-18075-MT-E

## CODE COMPLIANCE

K-Tech has taken great care in ensuring that our telephone equipment meets all code requirements. There are, however, additional requirements that have to be met in order for the installation and operation to pass code. We will attempt to list requirements pertaining to the installation of our telephone equipment. The ultimate responsibility, however, is yours. Consult local codes to be sure your installation complies.

1. Telephone equipment must be mounted at the proper height for people who use wheelchairs.
2. Make sure the called party knows how to make the visual indicator function. This signal is for the hearing impaired and means that help is on the way. (See our "Answering Phone Instructions" card, BOKANS 3/97, #3)
3. Make sure the called party can determine the origin of the call without interaction from its occupants. This is accomplished by a caller-ID type system, or by installing an EI-Tell Voice Location Announcer (ET-DA20) on the telephone line. This function is used when the occupant of the elevator is speech and/or hearing impaired.
4. When installing K-Phones inside an elevator phone cabinet you should install a sign with raised and Braille lettering (model LBL014) on the outside. A door handle allowing the physically impaired to open the door (model ET-TBH) should also be installed.

## **WARRANTY POLICY**

K-Tech International, Inc. warrants equipment of its own manufacture to be free from defects in material and workmanship for a period of one year from date of shipment from factory or appointed distributor to original user.

This warranty does not apply to any products which have been damaged, neglected, altered, abused, used for a purpose other than the one for which they were manufactured, repaired by the customer or any party without K-Tech's authorization, or used in any manner inconsistent with K-Tech's instructions.

K-Tech's entire obligation under this warranty shall be limited (at K-Tech's option) to repair or replacement of any parts which prove to be defective within the warranty period. Defective products must be returned by customer to K-Tech's factory in its original, unaltered form, transportation prepaid.

K-Tech will not be liable for any costs incurred by its customers in removal or replacement of defective products.

K-Tech International, Inc.'s liability under this warranty, or any other warranty, whether expressed or implied in law or fact, shall be limited to the repair or replacement of defective material or workmanship, and in no event shall be liable for consequential or indirect damages. No representative or person is authorized to assume for us any of the liability in connection with the sale of our products.

## **REPAIR POLICY**

K-Tech International, Inc. has a customer repair policy which requires that all customer repairs have a preassigned Return Authorization (RA) number. This system assists us in better serving our customers by ensuring accurate identification and prompt turnaround for returned product. If you need to return a product for repair, please contact our Customer Service Department at 800-993-9399 or 860-489-9399 for a Repair Authorization (RA) number. Please have the following information available when requesting authorization:

1. Bill To and Ship To addresses
2. Name and telephone number of contact person for this Repair Authorization (RA)
3. Purchase Order # for this Repair Authorization (RA)
4. Job site name
5. Quantity, model number(s), and serial number(s)
6. Brief description of problem experienced with the unit(s)

Shipping:

Please reference the Repair Authorization (RA) number on the outside of all cartons and on all paperwork enclosed with the product. Undocumented returns run the risk of being lost and are untraceable. All material must be shipped on a Freight Prepaid basis. Collect shipments will be refused.

## FCC NOTICE

This device has been granted a registration number by the Federal Communications Commission, under Part 68 rules and regulations for direct connection to the telephone lines. In order to comply with these FCC rules, the following instructions must be carefully read and applicable portions followed completely.

1. This equipment complies with Part 68 of FCC rules. A label located on an outside surface of this equipment contains, among other information, the FCC registration number and ringer equivalency number (REN). If requested, this information must be provided to the telephone company.
2. The recommended jack (USOC connecting arrangement) for this equipment is listed below.
3. The ringer equivalence number (REN) is used to determine the quantity of devices that may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain the number of devices that may be connected to the line, as determined by the total REN's, contact the telephone company to determine the maximum REN for the calling area.
4. If this equipment causes harm to the telephone network, the telephone company will notify you in advance. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with FCC if you believe it is necessary.
5. The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications to maintain uninterrupted service.
6. If trouble is experienced with this equipment, please contact the service center for repair and/or warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved. User repairs must not be made, and doing so will void the user's warranty.
7. This equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state tariffs. (Contact your state public utilities commission for information.) If so required, this device is hearing-aid compatible (HAC).

JACK (USOC): RJ11C  
RINGER EQUIVALENCE = 0.0B

# NOTES

Date Installed: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Installer: \_\_\_\_\_

Location: \_\_\_\_\_

Phone Line Number: \_\_\_\_\_

Phone Number Dialed: \_\_\_\_\_

Service/Security Company Dialed: \_\_\_\_\_



## **K-Tech International, Inc.**

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