The LC-8 Line Concentrator eliminates the monthly charges for dedicated phone lines to each elevator cab in an office, college, hotel, hospital, etc. A call initiated by any emergency phone is sent to the C.O. line. Subsequent calls activate call waiting tones to alert the emergency personnel that another phone has gone off-hook.

All inbound calls are answered by the LC-8. The emergency personnel then dials a Touch Tone command to connect to one of eight phones.

On both inbound and outbound calls, the emergency personnel can redirect the call to any of the other phones without hanging up. The LC-8 is compatible with all Viking emergency elevator phones, standard phones, modems and credit card readers.

http://www.VikingElectronics.com
E-mail...Sales@VikingElectronics.com

Features

- Automatic answering of inbound calls
- Connects up to (8) emergency phones
- Touch Tone transferring
- Fire floor phone connection
- Built in talk battery for fire floor phone
- Call waiting notice
- Paging feature
- Fully functional battery backup
- Non-volatile E2 memory for all programmable features

Applications

Sharing one line with up to (8):

- Elevator phones
- Emergency phones
- Modems
- Credit card readers
- Standard telephones

Specifications

Power: 120V AC/13.8V AC 1.25A UL listed adapter provided
Dimensions: 210mm x 159mm x 44mm (8.25” x 6.25” x 1.75”)
Shipping Weight: 1.8 Kg (4 lbs)
Environmental: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity
Connections: (1) RJ21
Battery Backup: 4 hours

Made in the U.S.A.
A. Elevator/Emergency Application

<table>
<thead>
<tr>
<th>Description</th>
<th>Pins</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Phone</td>
<td>1T/1R</td>
<td>W-BL/BL-W</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>2T/2R</td>
<td>W-O/O-W</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>3T/3R</td>
<td>W-G/G-W</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>4T/4R</td>
<td>W-BN/BN-W</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>5T/5R</td>
<td>W-S/S-W</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>6T/6R</td>
<td>R-BL/BL-R</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>7T/7R</td>
<td>R-O/O-R</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>8T/8R</td>
<td>R-G/G-R</td>
</tr>
<tr>
<td>C.O. Line</td>
<td>T/R</td>
<td>R-BN/BN-R</td>
</tr>
<tr>
<td>Fire Floor Extension</td>
<td>T/R</td>
<td>R-S/S-R</td>
</tr>
<tr>
<td>Not Used</td>
<td>3/11</td>
<td>BK-BL/BL-BK</td>
</tr>
<tr>
<td>Paging Audio</td>
<td>3/12</td>
<td>BK-O/O-BK</td>
</tr>
<tr>
<td>Paging Power</td>
<td>3/13</td>
<td>BK-G/G-BK</td>
</tr>
</tbody>
</table>

Up to (8) Phones, Modems, etc.

Optional Loud Paging

Up to (8) 30AE speakers can be connected to an M2W paging amplifier (Fax Back Document 480) to supply loud paging in each elevator cab.

B. Modem Application

The LC-8 can be used for up to eight modems to share one conditioned C.O. line for data transmissions. This gives multiple modems the high speed data transmission advantages of a conditioned line for the cost of only one conditioned line. For more information on this application, retrieve Fax Back Document 820.
A. Accessing the Programming Mode

1. With a Touch Tone phone, either call into the LC-8 or come off-hook on the fire floor extension.
2. The LC-8 will answer with a double beep.
3. Enter your six digit security code. (factory set to 845464)
4. A double beep indicates the LC-8 is in the programming mode.

B. To Program these Features

<table>
<thead>
<tr>
<th>Feature Description</th>
<th>Enter Digits</th>
<th>Memory Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire floor extension has priority (factory setting)</td>
<td>*1</td>
<td></td>
</tr>
<tr>
<td>C.O. Line has priority</td>
<td>*2</td>
<td></td>
</tr>
<tr>
<td>Halt and start command (three beeps)</td>
<td>*3</td>
<td></td>
</tr>
<tr>
<td>No Touch Tone # required on transfers, page and call waiting (factory setting)</td>
<td>*4</td>
<td></td>
</tr>
<tr>
<td>Touch Tone # required on transfers, page and call waiting</td>
<td>*5</td>
<td></td>
</tr>
<tr>
<td>Enable call waiting (factory setting)</td>
<td>*6</td>
<td></td>
</tr>
<tr>
<td>Disable call waiting</td>
<td>*7</td>
<td></td>
</tr>
<tr>
<td>Enable retry feature (see section J)</td>
<td>*8</td>
<td></td>
</tr>
<tr>
<td>Disable retry feature (factory setting)</td>
<td>*9</td>
<td></td>
</tr>
<tr>
<td>Maximum ring count on transfers, two digits 01 - 99 (factory set to 10)</td>
<td>2 digits</td>
<td>+ #15</td>
</tr>
<tr>
<td>Maximum call time in minutes, two digits 01 - 99 (factory set to 10)</td>
<td>2 digits</td>
<td>+ #17</td>
</tr>
<tr>
<td>Maximum idle time in seconds, two digits 01 - 99 (factory set to 10)</td>
<td>2 digits</td>
<td>+ #18</td>
</tr>
<tr>
<td>Security code, six digits 1 - 9 (factory set to 845464)</td>
<td>6 digits</td>
<td>+ #19</td>
</tr>
</tbody>
</table>

C. Security Code

This is the six digit number required to access the programming mode. It is recommended that you change the security code number from 845464 (V-I-K-I-N-G) to your own personal number. The security code must be six digits in length and can not contain a 0, a * or a #. The security code can only be set once and can never be changed. Once in programming, enter your new six digit security code, followed by #19.

D. Priority

Priority can be assigned either to the fire floor phone or the C.O. line. In the event that both the C.O. line and the fire floor phone are accessed, the LC-8 will connect the emergency phone to the assigned priority. The LC-8 is factory set with the fire floor phone having priority.

E. Transfer Protocol

The LC-8 is factory set so that a single Touch Tone 1 - 8 is used for transfers. A single Touch Tone 9 is used for paging and a single Touch Tone 0 is used for call waiting. The LC-8 can be programmed to require a Touch Tone # as a prefix for transfers, page and call waiting.

F. Call Waiting

The LC-8 is factory set with the call waiting feature enabled. If the LC-8 is installed in a modem sharing application in which call waiting tones will cause data errors, the call waiting features should be disabled.

G. Maximum Ring Count

When an emergency phone is selected, the LC-8 is factory set to ring that phone up to ten times. The maximum ring count is programmable from 1 to 99 rings.

H. Maximum Call Time (Prank)

The LC-8 is factory set to limit the call time of any emergency phone to 10 minutes before it is considered a “prank” and is disconnected. The maximum call time is programmable from 1 to 99 minutes. For modem applications, the maximum call time can be eliminated by entering #17 without the two digit call time.

I. Maximum Idle Time

After answering the C.O. line, the LC-8 is factory set to sit idle for 10 seconds waiting for a transfer request. If no transfer is requested, the LC-8 will time out and hang up. The maximum idle time is programmable from 10 to 99 seconds.

J. Retry Feature

The retry feature can reduce emergency phone communication time by calling just once to a remote location (with the LC-8 installed) and collecting/transmitting data to multiple phones at that location. When a device on one of the eight extensions of the LC-8 hangs up, the LC-8 will hold the line (for the programmed idle time), give two beeps and watch for a Touch Tone transfer request. If a Touch Tone transfer is detected the LC-8 will ring that device and allow communications. Enable the retry feature by entering *8 when in the programming mode. Increasing idle time to 30 seconds will allow more time for a transfer request.
A. Battery
The LC-8 has an internal rechargeable battery to provide up to 4 hours of operation. To turn off the LC-8 without discharging the battery, unplug the power adapter and press the reset button until the POWER LED goes out.

B. Inbound Calls
The LC-8 immediately answers the ringing C.O. line, gives two beeps indicating it has answered, then listens for Touch Tone commands. A single Touch Tone 1 - 8 will select that emergency phone. Strings of Touch Tones are not considered an emergency phone selection. Two seconds after a valid single Touch Tone is detected, the LC-8 will ring that emergency phone. When the emergency phone answers, it will be connected to the C.O. line. The other 7 emergency phones will be handled with “call waiting” or “page” features.

C. Fire Floor Extension
The fire floor extension provides balanced 32VDC talk battery to run a fire floor phone (any standard single line phone). When the LC-8 detects a phone off-hook on the fire floor extension, the phone is treated like an inbound call as described above. With priority set to the fire floor extension (factory setting), inbound calls will not be answered when the fire floor phone is in use.

D. Outbound Calls
Any one of the 8 emergency phones can make an outbound call. While one emergency phone is off-hook, the other seven phones, are handled with “call waiting” or “page” features. Outbound calls are connected to the C.O. line but may be interrupted by the fire floor phone if it has priority.

E. Transfers
A transfer can be made on inbound or outbound calls on the C.O. line or when using the fire floor extension. A single Touch Tone 1 - 8 will transfer to the selected phone. Two seconds after a single valid Touch Tone is detected, the original emergency phone will be disconnected and the LC-8 will ring the selected phone.

F. Call Waiting
If one of the eight emergency phones is in use and a second emergency phone comes off-hook, the second phone will hear normal ring back tones and the emergency personnel talking to the first phone will hear a call waiting tone. The emergency personnel may then access the second emergency phone by entering a single Touch Tone “0”. The first emergency phone will then be disconnected. The call waiting feature may be disabled to prevent data errors for modem applications.

G. Page
If a call waiting beep is heard and the emergency personnel does not want to abandon the call in progress, the page feature may be used. A single Touch Tone “9” will allow the audio from the call in progress to be heard on any of the other seven phones which may be off-hook. This enables the emergency personnel to page a general announcement. Another Touch Tone “9” will cancel the page. The LC-8 provides a very short beep every six seconds indicating you are in the page mode. Loud paging into each elevator is possible by installing a Viking model M2W paging amplifier and model 30AE ceiling speakers.

H. Prank Phone
An emergency phone that is left off-hook for more than 10 minutes (programmable from 1 - 99 minutes) is considered a prank phone. The LC-8 will remove the prank phone from the line so that the remaining emergency phones can make calls. A prank phone is displayed as a flashing number (1 through 8) on the front of the LC-8. Incoming calls are answered with three beeps, call waiting is disabled, and “page” is activated.

I. Display
The LC-8’s front panel is equipped with a seven segment display. It will display the number of the emergency phone that is in use. If an emergency phone has exceeded the maximum call time (programmable from 1 to 99 minutes) the display will flash the number of that prank phone.

J. Retry Feature
To make an initial connection to a distant emergency phone that is connected to an LC-8, dial the line connected to the LC-8. When the LC-8 answers, dial the port (1-8) to ring the selected emergency phone. Once a communication path has been established and then disconnected, another emergency phone can be selected using standard Touch Tones.

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