

## Specifications

Elevator Wiring Requirements	One shielded pair of communication cable, minimum 24AWG, with the shield preferably grounded at the controller end of the traveling cable.
Phone Line Requirements	Standard analog loop start voice grade telephone line or PBX.
AC/DC Transformer (supplied)	120V AC, 60 Hz input; 15V DC, 400 mA output Other power supply options are possible from 9-24VAC or 14-30VDC within regulated limits of safety (e.g. class 2)
Backup Power (Used if AC power is cut off)	9V/250 mAh rechargeable NiMH battery Replace every 5 years or as required.
Maximum number of units in parallel if required to answer incoming calls	6 sharing the same phone line.
Maximum number of units in parallel if not answering incoming calls	No theoretical limit if "Auto Answer" is turned off but multiple phone lines are recommended if > 10
On-hook Phone Line Voltage	15V – 55V (nominal 48V DC)
Off-hook Phone Line Voltage	5V – 15V (nominal 6V DC)
On-hook Power Required	0 mA
Off-hook Loop Current	10 mA – 80 mA (nominal 40 mA)
LED (call progress)	Operating voltage 1.7V – 2.1V Operating current 5 – 25 mA
Microphone	Unidirectional electret condenser Frequency range 100 Hz – 12 kHz
Ringing Voltage	40V – 130V AC
Operational Loop Resistance	600 Ω
Operating Range	0 – 60°C
Ringer Equivalence (REN)	0.7B
Dimensions	4.5" (114 mm) wide x 5.25" (133 mm) high x 1.75" (44 mm) deep with mounting holes to match the common stud patterns. LED hole ¼"

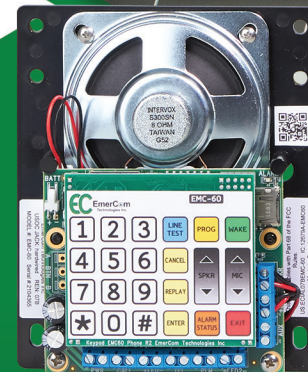
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# Emergency Hands-free Phone EMC-60

## Key Features

- **Ease of setup and operation**
  - » LINE TEST simulating a conventional speakerphone
  - » Voice guided off-site or remote on-site programming
  - » Extended touch keypad
  - » Remote call-in, remote programming and remote alarm simulation
- **Three emergency call numbers (auto redial if not answered)**
- **Voice notifications if line busy or fault detected**
- **Maintenance/test call numbers**
- **Multiple languages (English, French or Spanish)**
- **Improved diagnostics**
  - » 7 indication LED's and voice notifications
  - » Built-in Phone Line Monitoring (PLM) required by ASME/B44 Code
- **Powerful 3" speaker for quality sound with AUX terminal for Annunciator output**
- **Flexible power supply options**
- **New digital technology enables feature flexibility with optional customization**
- **Firmware updates via µSD card**
- **Reduced PCB footprint if speaker mounted remotely**

## Summary

The EmerCom digital phone provides excellent voice quality and ease of operation with a miniature circuit board footprint and the ability to program many more features making it significantly more flexible than the older analog models.

## Ease of Operation

The touch keypad has more feature keys and indicator LED's including a line-test feature. Voice responses available in multiple languages make the remote programming feature very user-friendly for setup and use, including the ability to simulate an emergency call from off-site. The phone can call an off-site number on a regular basis and report the status of the phone.



**EMC-60**  
Panel Mount



**EMC-60-FP**  
Faceplate

## Description of Operation

In the event of an entrapment or other emergency, an elevator occupant may press the "Phone" button causing the EMC-60 to automatically call the primary phone number. The LED will illuminate immediately and begin flashing as soon as two-way voice communication with an authorized person is established.

If the call is not acknowledged within a reasonable time, the phone will automatically hang up and dial the second phone number, then the third number; if the phone line is busy, the phone will notify the caller that the system is in use and redial automatically every 30 seconds.

## Diagnostics

The phone continuously monitors its own operation and its environment, including phone line and external power.

If the contacts are available, the phone can monitor whether the elevator door has opened since the phone button was last pressed, informing the emergency response phone operator that there is no longer an entrapment and assistance is probably no longer required.

If a fault is detected, the phone can call a programmed number to report the fault and/or announce over its built-in speaker that service is required.

A phone line test feature enables on-site personnel who have access to the phone keypad to go off hook, listen for dial tone, call any number and engage the speaker and microphone for volume adjustment, converting the EC emergency phone into a regular speakerphone.

The phone can be programmed remotely to the extent of initiating a test simulation of an "emergency" call.

The Phone Line Monitoring (PLM) feature monitors the phone line as required by ASME A17.1/CSA B44 Code. A pair of contacts is built-in, which will open on alarm (fail-safe) and a PLM test feature is built-in to briefly simulate an alarm. The phone can automatically call a programmed phone number to verify phone operation on a regular basis and has 7 status LEDs which provide the essential information at a glance.



**EMC-60-BX**  
Box Style