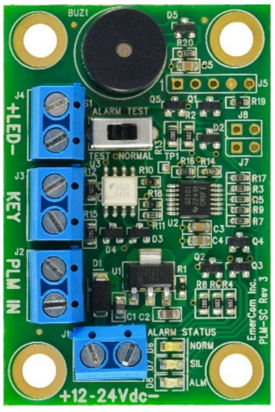
EmerCom Technologies Inc

EMC-ALRM
USER GUIDE

Phone Line Monitoring System

EMC-60 Hands-Free Phone



EMC-ALRM Board

Quick start guide

☐ 1

Connect wiring to EMC-ALRM

- PLM IN to PLM on EMCS for *high-rise* **or** on EMC-60 phone for *low-rise* (additional phones in same group connected in series)
- 12-24VDC Power (Note polarity)
- PLM LED (Note polarity)
- KEY SWITCH (Normally Open, momentary close spring return)

☐ 2

With power applied, the green *'NORMAL'* LED should be on.

For *Low-Rise* test:
Select PLM test on the EMC-60 elevator phone. Touch **WAKE** **PROG** **2** **4** **ENTER**, select the test time in seconds and touch **ENTER**.

For *High-Rise* test:
Disconnect phone line to the CAB at the EMCS. Try calling the cab for quick test to verify alarm. Reconnect to reset then repeat but wait for alarm.

☐ 3

The EMC-ALRM red *'ALARM'* LED on the PCB will illuminate, the buzzer will *"beep"* once every 30 seconds and the PLM LED flash.

☐ 4

Silence the buzzer with the key switch. The EMC-ALRM orange *'SILENCE'* LED will illuminate and the PLM LED continue flashing.

☐ 5

For *Low-Rise* test:
After the PLM Test time expires on the EMC-60 phone the EMC-ALRM green *'NORMAL'* LED will illuminate and the PLM LED stop flashing.

For *High-Rise* test:
Reconnect the phone line to reset.

Customer Care: Call 1-844-EMERCOM (1-844-363-7266) for assistance.

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About the EMC-ALRM Phone Line Monitoring Alarm Board

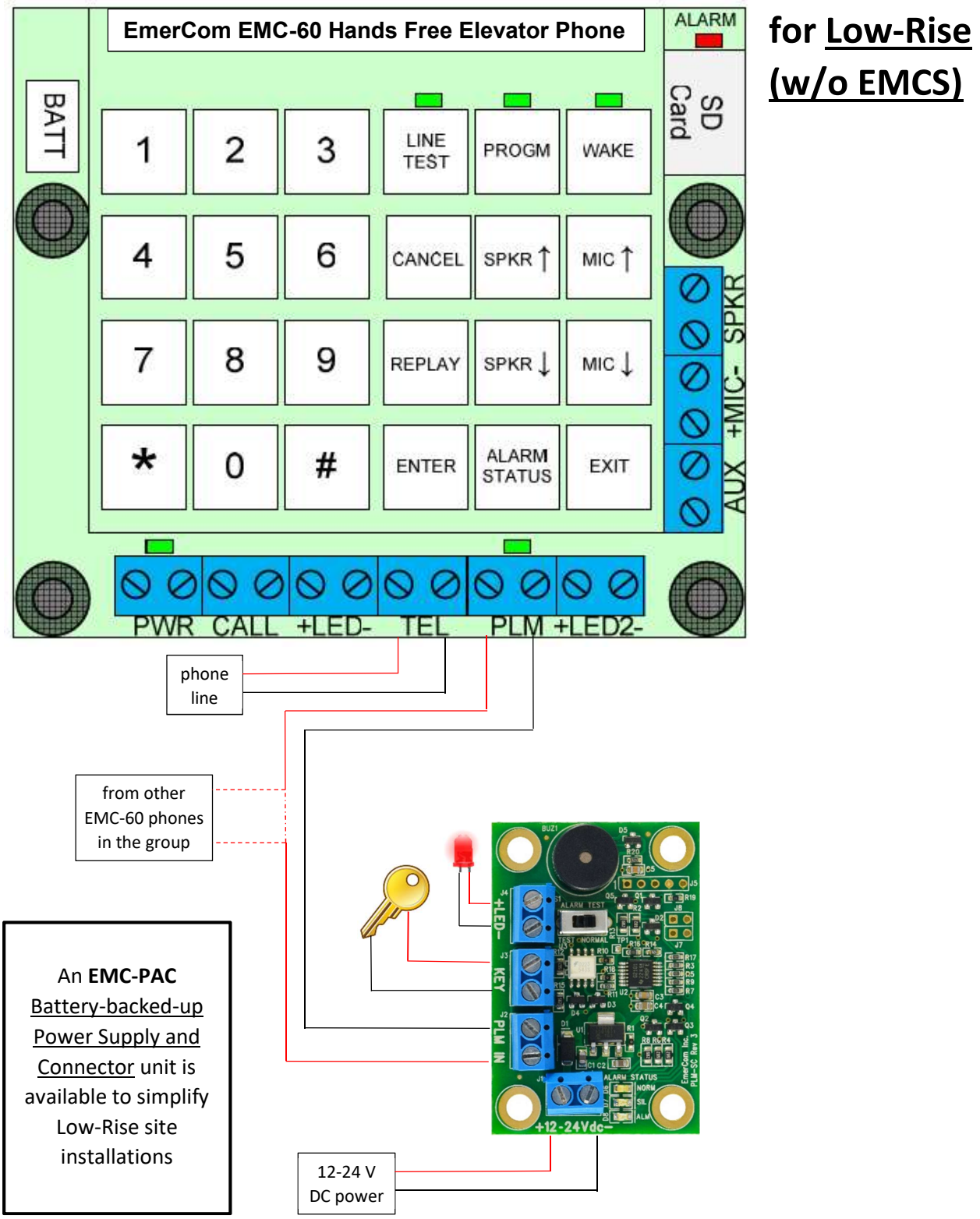
Key Features:

- Complies with ANSI A17.1/CSA B44 Safety Code for Elevators
- The EMC-60 Emergency Hands-free Elevator Phone, combined with the EMCS Emergency Phone Consolidator, if applicable, verifies the operability of the telephone line and signals the EMC-ALRM if the line is not functional.
- In the event of a phone line failure, the EMC-ALRM activates an audible and illuminated visual signal for each group of elevators.
- The key-switch or pushbutton, accessible only to authorized personnel, will silence the audible signal for no less than 12 hours.
- The EMC-60/EMCS monitors the failed phone line repeatedly and will signal the EMC-ALRM to cancel the alarm immediately.
- The illuminated visual signal will extinguish and the system return to normal.

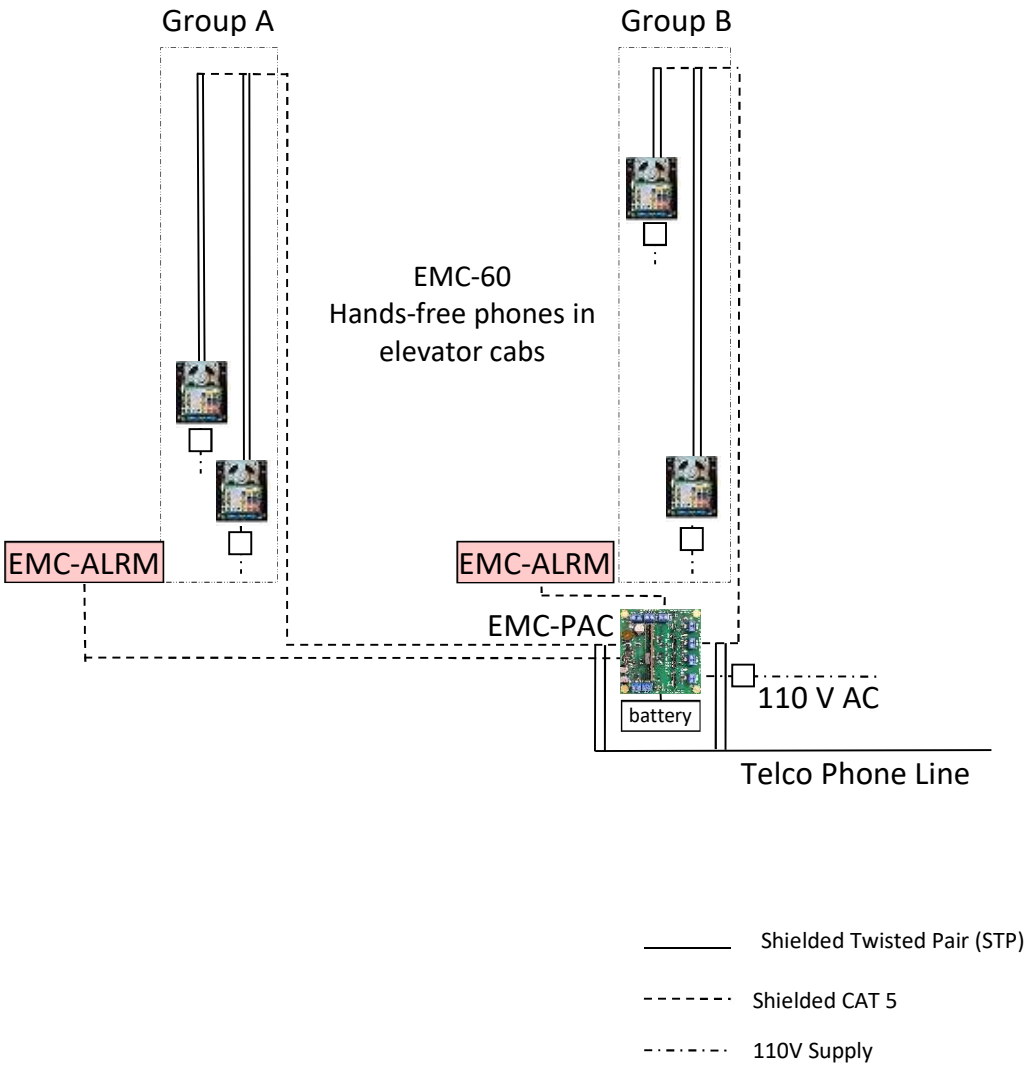
Battery backed-up power is recommended to enable notification of elevator communications failure in the event of power failure (built-in when using an EMCS or EMC-PAC).

EMC-60 and EMC-ALRM Connections

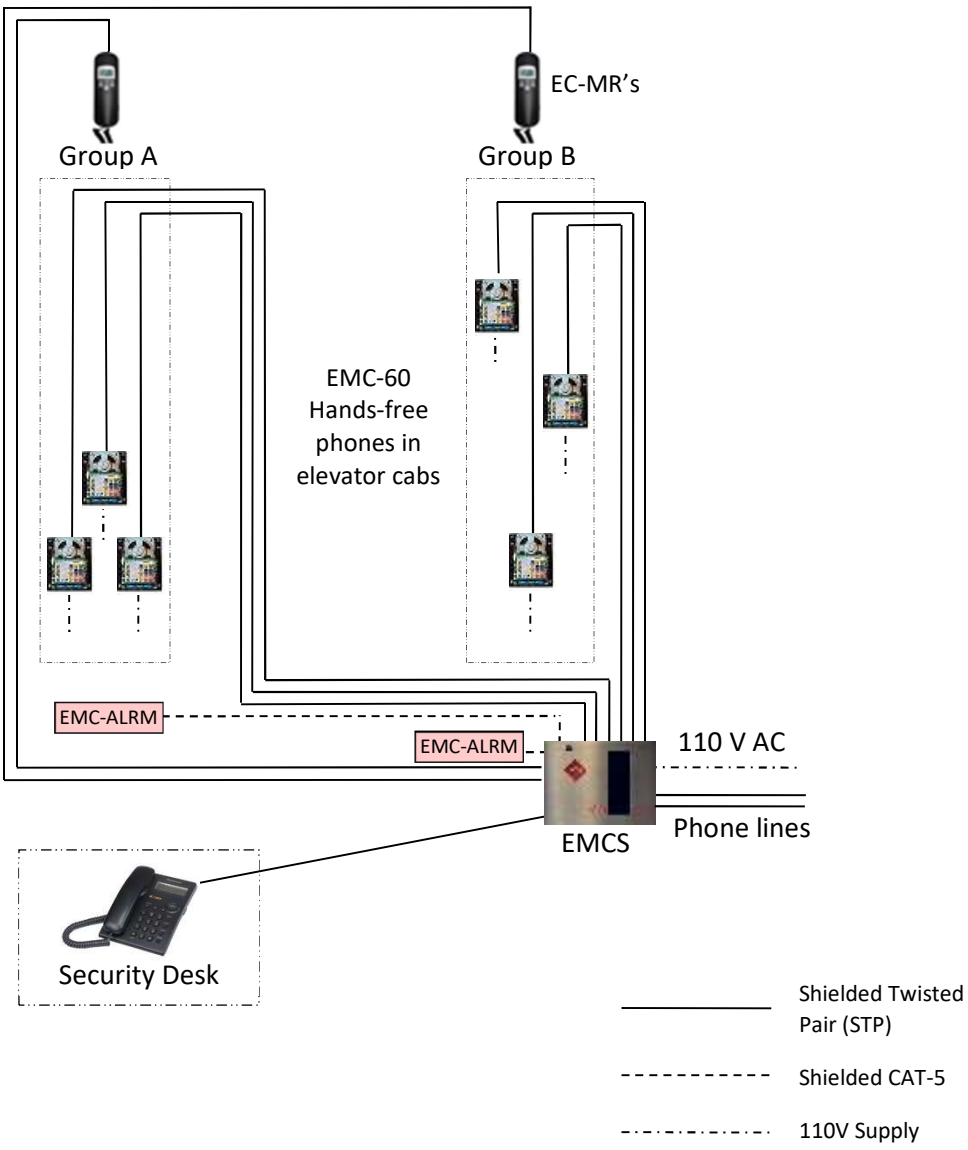
for <u>Low-Rise</u> <u>(w/o EMCS)</u>



EMC-PAC and EMC-ALRM Low-Rise Layout



EMCS and EMC-ALRM High-Rise Layout



Description of Operation

The Phone Line Monitoring (PLM) feature built into the EmerCom EMC-60 Hands-free Elevator Phone monitors the phone line as required by ASME A17.1/CSA B44 Code. If the phone line fails a pair of contacts in the EMC-60 will open (fail-safe) to signal the EMC-ALRM Alarm Annunciator to generate an audible & visual alert in the elevator lobby, in the vicinity of the Firefighters Recall Switch.

The visual alert LED will flash until the phone line becomes operational again but the audible alert buzzer can be silenced by authorized personnel with the key switch (or pushbutton accessible only to authorized personnel). The buzzer will remain silenced for 12 hours unless the phone line is restored earlier.

Three LEDs mounted on the EMC-ALRM PCB indicate ‘normal’, ‘alarm’ or ‘silenced’ status.

A PLM test feature is available in the EMC-60 phone to simulate an alarm by opening the relay contacts for the number of seconds entered (Command # 24), after which it returns to normal. An extended test can be conducted by moving the test switch on the EMC-ALRM PCB into the “TEST” position.

For *High-Rise* installations an EMCS Consolidator or Rescue Station will be required to call into any cab from an on-site location. The EMCS Consolidator regularly checks the health of the external phone lines and the connection with all of the EMC-60 Phones and sends a signal to the EMC-ALRM (connections to the EMC-60 phone PLM terminals are not required with the EMCS).

Troubleshooting

EC-Phone indicates a phone line fault but no alarm triggered

- Check 12-24V DC supplied and polarity correct
- Ensure additional EMC-60 phones are connected in series

EC-Phone indicates phone line okay but alarm triggers

- Verify the test switch is in the “NORMAL” position
- Check wiring for open-circuits.

Buzzer is not loud enough

- Ensure the sticker has been removed from the buzzer

Specifications

Elevator Wiring Requirements:	One pair of communication cable, minimum 24AWG, ideally shielded with the shield grounded at the controller end of the traveling cable.
Power	12-24V DC 100 mA (preferably with battery backup)
LED	Operating voltage 1.7 – 2.1 V Operating current 10 – 25 mA
Operating Range	0 – 60°C
Dimensions	PCB 1.5” (38 mm) wide x 2.25” (57 mm) high and 0.5” (13 mm) deep with mounting holes 1.1” (28 mm) wide x 1.85” (47 mm) high. LED hole ¼”

Warranty

SHIPPING AND LIABILITY

Please verify that the shipment is received in good order ASAP.

EmerCom Technologies Inc. warrants parts and labor on all equipment of its own manufacture for a period of 10 years from the date of shipment but cannot be held liable for any loss or damage resulting from causes beyond their reasonable control. Any abuse, vandalism, alteration or misuse of these products for purposes or in a manner other than that for which they were manufactured will void the warranty.

Please return defective products prepaid to your nearest service center after first calling 1-604-589-3899 (or toll-free 1-844-363-7266) for a Return Authorization (RMA) number. Please provide:

- Model number
- Problem or fault description
- Name of the person requesting the RMA, phone number and shipping address

Please reference the RMA number clearly on all packaging and paperwork.

Note: Statistically, more field problems are caused by wiring, connection, power supply or installation issues rather than the devices themselves. Please have your field staff call us from site before concluding that an EmerCom product needs to be returned, to offer you the assistance to resolve the problem most conveniently over the phone.

EmerCom Technologies Inc. shall not be liable for any loss or damage resulting from causes beyond its reasonable control and in no event whatsoever shall we be liable for consequential damages resulting in personal injuries, property damage or economic loss to any party.