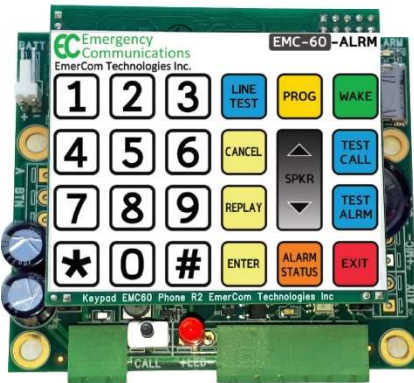


EMC-60-ALRM - VoIP Phone Line Monitor for copper landlines converted to fibre-optic



Key Features:

The EMC-60-ALRM verifies the operability of the phone line “equivalent means” as required by the ASME A17.1/CSA B44 Elevator Safety Code (Section 2.27.1.1.6) for non-EmerCom systems (*).

- The availability of traditional copper “landlines” is declining so new and existing landlines are being replaced with “fibre-optic” connections
- Analog Telephone Adaptors (ATA’s) connect the traditional analog phone systems to the fibre-optic (or coax or cellular) VoIP modem-routers. The EMC-60-ALRM Elevator VoIP Phone Line Monitor verifies the operability of the ATA and of the entire fibre-optic/cellular/internet connection and, if not functional, signals the building’s existing (or new) elevator communications system which routes the alarm to all the building’s Phone Line Monitoring (PLM) alarms
- Straight-forward installation
- Extends the PLM test for any conventional emergency elevator phone system
- Test functions for simulating an alarm and for initiating a test cycle
- Battery backed-up and firmware upgrades with a µSD card
- Programmed to run daily tests as required, but, as soon as a mains power failure is detected, will run an extra test to verify that a device without battery backup is not present in the circuit

Description of Operation:

The EMC-60-ALRM “pings” a remote connection through the ATA and if a valid response is not returned, pings a second independent location and, if also unsuccessful, opens the PLM contacts signaling the existing Phone Line Monitoring device(s) which generate the required alarms.

If a valid response was not received the EMC-60-ALRM will check the link at least every 5 minutes until a successful connection is established.

If connecting to the building’s PLM device alarm circuit(s) is not viable, an optional Telephone Line Relay, triggered by the EMC-60-ALRM, is available which disconnects the phone line to the PLM device(s) causing the required alarms. This minimizes the site wiring but introduces the risk of a false alarm preventing a call.

Specifications:

Power: 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)

Battery: 9V 250mAh rechargeable NiMH battery
Replace every 5 years or as required.

Operating Range: 0 – 60°C

Dimensions: 4.5” wide x 3” tall x 1.75” deep

(*) Built into EmerCom EMC-60 and EMCS latest firmware versions

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EMC-60-ALRM - VoIP Phone Line Monitor for copper landlines converted to IP

Diagnostics:

The EMC-60-ALRM continuously monitors its own operation and its environment, including phone line and external power.

If an internal fault is detected, i.e. no mains power, the monitor can call a programmed number to report the fault including location announcement and/or announce over its built-in speaker that service is required. The module can be programmed locally or remotely.

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

Diagram of the Preferred Configuration:

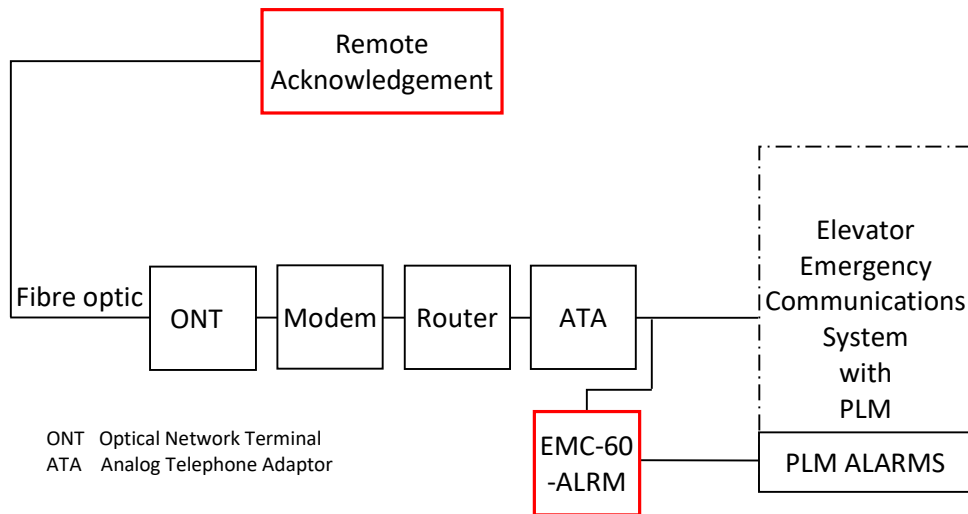


Diagram of Alternate Connection if Preferred Configuration is Not Viable:

Note the increased risk associated with disconnecting the phone line.

