

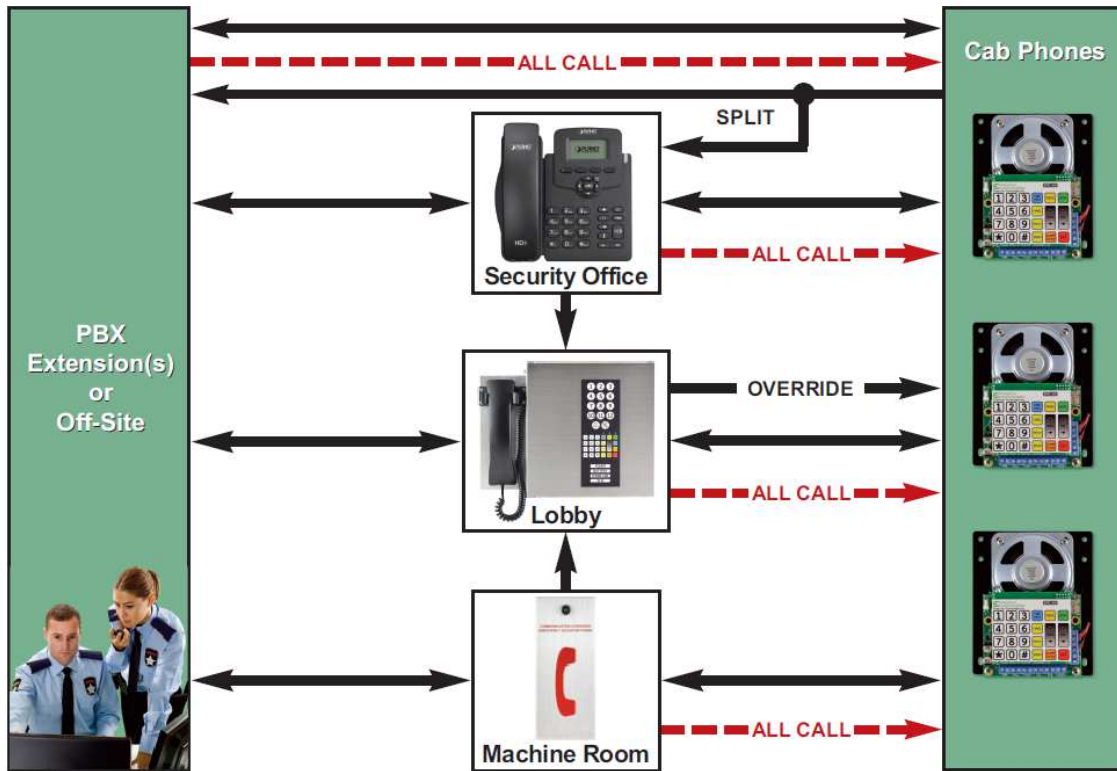


EMCS USER GUIDE

Emergency Master Control Station Phone Consolidator



Call Routes Available



Other Models



EMCS-MR



EMCS-OEM

Quick Start Guide

1

Connect wiring:

- Cab Phones
- Phone lines (TEL 1 and/or 2)
- Remote Phones to MR
- EMC-ALARMS to lobby alarm boards
- Video triggers to I/O device
- Power (PWR IN)
- NiMH battery (BAT)

4

Learn Mode:

Touch **LEARN**. If a phone line is detected, respond to prompt for TEL or Intelli-Split mode. Otherwise, select LOBBY for internal calling only. Learn Mode searches for:

- Cab Phones (Stations)
- Phone lines (TEL 1 and/or 2 or None)

2

Wake unit:

Lift handset and touch **WAKE** to activate the 24 button keypad

or

Call into the EMCS-MR from a remote phone and enter remote programming mode (see 6.3)

5

Program Mode (via keypad):

Touch **PROG** to enter programming mode. Change parameters by selecting:

<Cmd #> **ENTER** <value> **ENTER**

Review parameters by selecting:

<Cmd #> **REPLAY**

See 6.1 for complete Cmd list

3

Line test:

Touch **LINE TEST**. The LINE TEST LED will turn on and the EMCS goes off-hook. Wait for dial tone then use the keypad to dial a test number (e.g. a cellphone). Hang-up to disconnect from the called party ending the call.

6

Configure PLM Groups:

- Touch **PLM**
- Select Group # on 24 button keypad
- Touch **ENTER**
- Icons in selected group light up
- Touch icon to toggle to default Grp 1
- Touch **ENTER**

24 button touch keypad



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

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Changes (1.5 to 1.6)

Cmd 24: CID Update Timer
Cmd 25: Start PLM Test
Cmd 26: PLM check interval – 0=12 hours; 1= 5hours
Cmd 60: EMCS ID (was Cmd 25)

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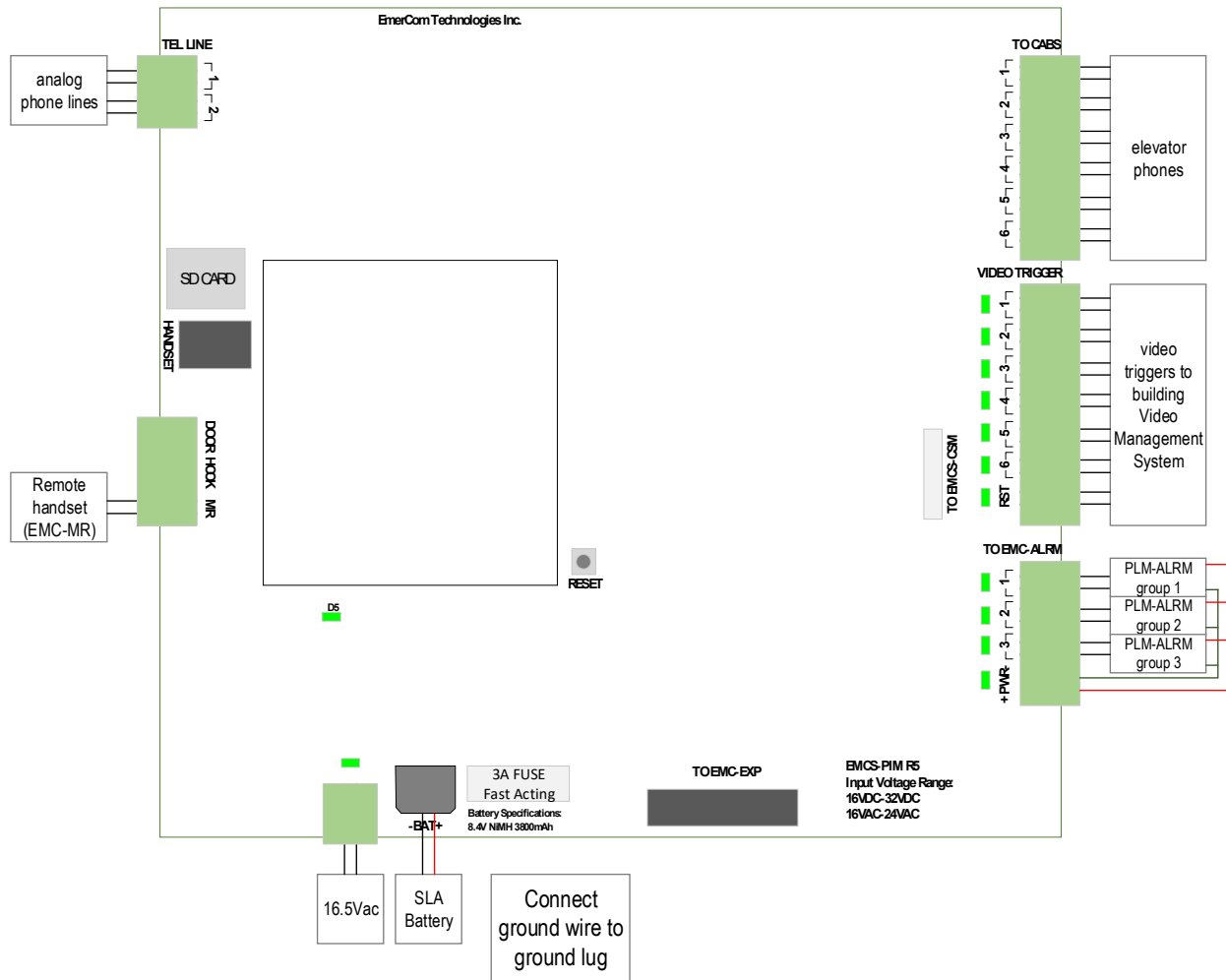
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1. About the EMCS Emergency Consolidator

1.1 Key Features

- ASME A17.1/CSA B44 Safety Code for Elevators requires the means to call into any elevator from within a tall building with elevator travel greater than 60' (18m). The EMCS Consolidator manages this operation through its handset and any connected remote handsets, overriding off-site calls in progress.
- Intuitive visual and audible indications for system operation and call routing
 - Colour-coded touch-control icons indicate each elevator phone status
 - Voice prompts announce current system status to any handset away from the main display, either on-site or off-site, with on-site CID display
- System-wide page (ALL CALL) from on- or off-site to all elevators
- 2 concurrent calls to reduce wait time in a broad emergency
- Ease of setup and operation
 - "Learn" mode to automatically configure the system
 - Programmable Phone Line Monitoring (PLM) group configuration
 - "Line Test" mode to assess the building phone line
 - Remote phones can call off-site
 - Bilingual voice prompts
 - Touch keypad (French overlay available)
- Advanced diagnostics
 - Built-in Phone Line Monitoring (PLM) from each elevator to the EMCS and for each connected TEL line as required by Code
 - Watchdogs with counters for automatic fault recovery and reporting
 - Remotely simulate alarm call
- 3 PLM group alarm relays for every 6 cabs (fail safe - closed when no alarm)
- Built-in Video Trigger relay per elevator (normally open) plus all-clear signal
- "Call Anywhere" (see Call Routes Available on page 2)
- Call off-site, via an available phone line, using any on-site phone
- Simple SD card firmware upgrades enable feature flexibility with optional customization
- Digital chip platform
- Self-diagnostics continuously monitor its own operation and its environment
- Compatible with a wide range of power supply voltages (AC and DC)
- Vandal-resistant #16-AWG Brushed Stainless Steel
- Box width 14.25" to fit (recess) between wall studs
- Status and alarm messages displayed on Remote Phone CID

2. Circuit Board Layout & Connections



3. Description of Operation:

In the event of an entrapment or other emergency, an elevator occupant may press the “phone” button on the elevator control panel, causing the elevator phone to automatically call for help. In TEL mode the Consolidator routes the call to either of two phone lines connected or to the Consolidator then a phone line in sequence in Intelli-Split mode or to the Consolidator in Lobby mode. The applicable elevator icon will turn green.

If the call is not acknowledged within a reasonable time, the phone is required to automatically hang up and dial a second phone number. If the phone line is busy, the Consolidator will notify the parties on the original call that another call is waiting.

The Consolidator can call into any of the elevator phones. The caller selects which cab by touching the appropriate icon which lights-up as soon as the consolidator door is opened. If an icon is illuminated green the cab phone is busy on a call which can be overridden by any of the in-building handsets.

Remote/Machine Room handsets can call into any cab, even overriding emergency calls or joining another internal call in progress.

ALL CALL (system-wide paging) is available from all internal handsets as well as from off-site.

Phone Line Monitoring (PLM) verifies the operation of the external phone lines as well as the lines from each cab. Cabs are assigned to groups using the quick program keys, with 3 group alarm relays available for every 6 cabs. Each relay signals the appropriate EMC-ALRM board. Group “0” phones do not activate PLM alarms.

Video trigger relays indicate whenever an emergency call from a cab is in progress.

4. Diagnostics

4.1 Learn Mode

Learn mode automatically validates the wired communications system and configures the operating mode selected by the user.

- Detects the number and position of active cabs wired to the Consolidator
- Verifies the operating mode selected (TEL, Lobby or Intelli-Split) by detecting the number of valid phone lines wired to the system
- Automatically configures EMC-60 phones “Consolidator Compatibility” mode
- In the case of any elevator phone exhibiting unusual behaviour the corresponding cab icon illuminates “RED” to flag the phone as “Failing to Connect”. **Note:** “Failing to Connect” followed by a second attempt to communicate will generate a PLM alarm unless the elevator phone is assigned to PLM group #0.

4.2 Self-diagnostics

The Consolidator continuously monitors the operation of the communications system, reporting call routing status, phone line availability and any alarm conditions. These conditions can be observed on the display at the Consolidator or the CID display of an on-site remote handset or heard by lifting the consolidator handset and touching <ALARM STATUS>, or remotely through programming mode.

- Routing status prompts
 - Station #x is in conversation
 - No available phone lines
 - Phone line #y is unavailable
 - Off-site ALL CALL in progress
- Alarm conditions:
 - Normal
 - No mains power
 - No battery
 - Low battery
 - Charging battery
 - Fault battery
 - Phone line fault
 - Station #n fault
 - PLM fault

Problem	Alarm	LED status	Buzzer status
No mains power	POWER	FLASHING	Alert every 0.5 s
Battery issue (check ALARM STATUS)	BATTERY	FLASHING	Alert every 0.5 s
No cab phone response in 24hours	STATION ICON	RED	Alert every 30 s
Any of the expected phone lines not operational (TEL mode)	PHONE LINE	RED	Alert every 0.5 s
No cab phone response in 24hours (if phone not group 0) All expected phone lines not operational (TEL Mode)	PLM	RED	Alert every 30 s

4.3 PLM (Phone Line Monitoring)

The Phone Line Monitoring (PLM) feature verifies the operability of the end-to-end communications link (e.g. for elevator phone connecting to a live phone line) as required by ASME A17.1/CSA B44 Code. Any fault detected generates an audible and visual alert in the elevator lobby for the assigned group (elevator phones assigned to group #0 will not generate a PLM alarm). In an alarm state the communication link is re-tried every five minutes until the failed status is cleared.

4.4 Phone LINE TEST

A phone LINE TEST feature enables on-site personnel who have access to the consolidator keypad to go off-hook, listen for dial tone and call any number to test the phone line operability. A similar off-site calling feature is available from any on-site remote handset.

5. Additional Features

5.1 Overriding an emergency call

The Consolidator overrides off-site calls in accordance with ASME A17.1/CSA B44 “Safety Code for Elevators and Escalators”. Lift the handset and touch the icon corresponding to the active off-site conversation (illuminated in GREEN). The handset will take over the existing conversation, connecting directly to the elevator phone after notifying all parties before overriding the off-site connection.

On-site remote phones can also override off-site conversations by following the selection prompts. If an on-site conversation is in progress, subsequent on-site handsets will join the active conversation.

5.2 System-wide paging (ALL CALL)

The all system page (ALL CALL) is available by dialing in from off-site or it can originate from on-site using either the handset and touchpad or by following the voice prompts using any remote/on-site phone. Once connected, the operator can broadcast to all elevator phones simultaneously. On-site initiated calls have a higher priority than those originating from off-site and override (similar to the process described in 5.1).

5.3 Internal Calling

Remote phones can call the Consolidator by following the extended voice selection prompts – providing a convenient feature when communicating from a machine room where cellphone service is unavailable to a “helper” in the lobby.

5.4 Non-emergency off-site calls

Any internal phone (the EMCS handset or any remote phone) can be used to call off-site in case of an emergency or for Customer Care (1-844-363-7266) via an available phone line. **Note:** *The Consolidator considers these calls to have non-emergency priority which are automatically overridden by calls initiated by entrapment events.*

5.5 Video Triggering

The Consolidator has one pair of potential-free, normally open contacts for each cab phone, which close during an emergency call to signal a video management system to display/record the video as required. An additional relay contact closes when there are no emergency calls in progress.

Note: *Not activated during “Learn”, “PLM check” or “ALL CALL”.*

6. Programming

6.1 Summary Table

The following section 6.2 provides more detailed information on each command.

Cmd #	Command	Range	Default
1	Learn Mode - prompted to select Operating Mode	0 = Lobby Mode (automatic if no phone lines are available) 1 = TEL Mode (if 1 or 2 phone lines) 2 = Intelli-Split (if 1 or 2 phone lines)	N/A
2	Operating Mode	0 = Lobby Mode 1 = TEL Mode 2 = Intelli-Split Mode	1
3	Phone Lines Available	1 digit; values 0,1,2	1
4	Active Stations	0 – 6 (or 1-12 with EMCS-EXP)	1,2
5	Inactive Stations	0 – 6 (or 1-12 with EMCS-EXP)	3,4,5,6
6	Serial Number Playback	Replay only	Pre-set
7	Main Firmware Version	Replay only	Pre-set
8	Alarm Status Playback	Replay only, one or more of the following “NO MAINS POWER” “NO BATTERY” “LOW BATTERY” “CHARGING BATTERY” “NORMAL” “PHONE LINE FAULT” “STATION NUMBER #n FAULT”	N/A
9	Access Code	5 digits; values 1,2,3,4,5,6,7,8,9,0	12345
10	Language	0 = English 1 = French	0
14	Auto Answer	0 = OFF (ignore incoming on phone line) 1 = ON	1

Cmd #	Command	Range	Default
23	Ring Phone Extension	0 = OFF (incoming will not ring remote) 1 = ON (remote phone rings on incoming call – required for CID alarm display)	0
24	Caller ID Update Timer	1-30 minutes (alarm reporting frequency)	1
25	Start PLM Test	1 = CONFIRM	N/A
26	PLM Check Interval	0 = 12 hours 1 = 5 hours	0
30	Handset Volume Setting	0 = soft, 9 = loud	5
31	Handset Mic. Sensitivity	0 = least sensitive; 9 = most sensitive	5
32	TEL1 Line boost	0 = min; 9 = max boost	2
33	TEL 2 Line boost	0 = min; 9 = max boost	2
34	Rem. Phone attenuation	0 = min.; 8 = max attenuation	4
43	Factory Reset	1 = CONFIRM	N/A
44	Remote Silence Buzzer	1 = CONFIRM	N/A
45	PIM Firmware Version	Replay only	Pre-set
46	CSM Firmware Version	Replay only	Pre-set
47	CSM Hardware Version	Replay only	Pre-set
50	PLM Group 0 (OFF)	1-6 (or 1-12 with EMCS-EXP)	-
51	PLM Group 1	1-6 (or 1-12 with EMCS-EXP) default	All cabs
52	PLM Group 2	1-6 (or 1-12 with EMCS-EXP)	-
53	PLM Group 3	1-6 (or 1-12 with EMCS-EXP)	-
54	PLM Group 4	(only with EMCS-EXP) 1-12	-
55	PLM Group 5	(only with EMCS-EXP) 1-12	-
56	PLM Group 6	(only with EMCS-EXP) 1-12	-
60	EMCS ID	0-9 (set > 0 if more than one EMCS)	0

6.2 Programming Details

Lift the handset and touch <WAKE> to turn on the keypad and illuminate the “WAKE” LED or call into the Consolidator from a remote location (on- or off-site) (see next section for remote programming). Touch <PROG> to enter program mode and turn-on the “PROG” LED. The operator prompt “*Program*” will be heard.

Touch the key(s) to select the command number required, touch <ENTER> and listen for the prompt to confirm the command. Input the parameter and touch <ENTER>. The prompt “*Input accepted*” will be heard if the parameter qualifies or “*Incorrect entry, please re-enter*” if not. To check any entry, touch the command number followed by <REPLAY>. Touch <CANCEL> to exit a command without changing the parameter. Touch <EXIT> or hang-up the handset to leave programming mode. An audible alarm will sound if the handset is off-hook too long without activity.

REPLAY

To check the current value of any parameter, enter the command number followed by the <REPLAY> key. For example, to hear the main firmware version, press the <7> key followed by <REPLAY>. One will then hear the message “*Firmware version*” followed by the digits representing the firmware version installed on your unit.

6.2.1 Command # 1: LEARN MODE

Learn mode automatically configures and verifies the wired communication system. The Consolidator first checks the number of valid phone lines wired to the system and announces the operating modes available for selection. Then the Consolidator searches for all cab phones connected to the system and displays the status of each phone as a colour on the corresponding station icons. Cabs which exhibit unacceptable behaviour are flagged *RED* for failed and trigger a Phone Line Monitoring (PLM) alarm in their group.

Enter Learn Mode through the programming menu or by touching the <LEARN> shortcut key. The voice prompt “*Learn Mode*” will be heard, followed by a choice of available operating modes based on the wiring configuration. Touch the digit corresponding to the desired mode followed by <ENTER> to confirm. The voice prompt “*Configuration complete*” will be announced at the end of the process. Hang-up.

Voice Prompt: “*Learn mode*”

6.2.2 Command # 2: OPERATING MODE

The Consolidator routes conversations according to site requirements. In “Lobby mode”, emergency calls from the cabs are directed to all in-building “authorized personnel” handset locations. “TEL mode” directs calls off-site via the wired phone line(s). In “Intelli-split mode”, emergency calls are directed to either in-building or off-site “authorized personnel” locations, depending on line availability.

Voice Prompt: “***Operating mode***”

6.2.3 Command # 3: PHONE LINES AVAILABLE

This sets the number of valid phone lines wired to the system. The “*Learn mode*” auto-configuration setting can be overridden manually.

Voice Prompt: “***Phone lines available***”

6.2.4 Command # 4: ACTIVE STATIONS

The station numbers of active cabs are assigned using this command. Input each station number to be activated followed by <ENTER> or touch <REPLAY> to hear a list of all cabs currently assigned. The “*Learn mode*” auto-configuration setting can be overridden manually.

Voice Prompt: “***Active stations***”

6.2.5 Command # 5: INACTIVE STATIONS

Use this command to unassign cabs by inputting the station number followed by <ENTER> or touch <REPLAY> to hear a list of inactive cabs. The “*Learn mode*” auto-configuration setting can be overridden manually.

Voice Prompt: “***Inactive stations***”

6.2.6 Command # 6: SERIAL NUMBER PLAYBACK

Factory set. Use the serial number playback command to report the serial number (as displayed on the sticker attached to the main circuit board).

Voice Prompt: “***Serial number***”

6.2.7 Command # 7: MAIN FIRMWARE VERSION PLAYBACK

Replays the Consolidator’s main circuit board firmware version.

Voice Prompt: “***Firmware version***”

6.2.8 Command # 8: ALARM STATUS PLAYBACK

The <ALARM STATUS> touch key and “Alarm Status Playback” command report the system alarm status (power, battery, TEL line and cab phone condition).

Voice Prompt: “**Alarm status**”

Note: *The battery is a rechargeable NiMH battery and should have a full charge within 1 day of connecting the Consolidator to AC power. Replace with a factory-supplied battery if the alarm status indicates a dead battery or once every 5 years.*

6.2.9 Command # 9: ACCESS CODE

Entry of a 5-digit access code will be required for remote programming. Changing the access code to a unique number will prevent others calling in and modifying the settings. Default is **1 2 3 4 5**.

Caution: *Programming by calling in remotely will not be possible without the access code.*

Voice Prompt: “**Access code**”

6.2.10 Command # 10: LANGUAGE

The Consolidator has built-in voice prompts to assist emergency personnel when an emergency call is in progress and to assist during programming. Set to either English (0) or French (1).

Voice Prompt: “**Language**”

6.2.11 Command # 14: AUTO ANSWER

The auto answer setting determines whether the Consolidator accepts off-site calls from either phone line.

Voice Prompt: “**Auto answer**”

6.2.12 Command # 23: RING PHONE EXTENSION

This command enables signaling from the Consolidator to on-site remote locations. When turned on, remote phones attached to the MR terminal will ring and display emergency call and alarm status information on the CID screen.

Voice Prompt: “***Ring phone extension***”

6.2.13 Command # 24: CALLER ID UPDATE TIMER

Alarm status information is displayed on every on-site remote phone CID screen and updated at intervals defined by this timer (in minutes).

Voice Prompt: “***Caller ID update timer***”

6.2.14 Command # 25: START PLM TEST

To simulate a cab phone failure, set the PLM test on the EMC-60 cab phone (Command 25) to 1 - 300s, which de-energizes the PLM alarm relay for the time selected.

The EMCS PLM test is being re-programmed for release mid 2020. Disconnect both TEL wires for PLM testing in the interim. Apologies for the inconvenience.

Voice Prompt: “***PLM test***”

6.2.15 Command # 26: PLM CHECK INTERVAL

The ‘PLM Check Interval’ sets the test frequency (Code requires at least once per day)

When *PLM Check Interval* = 0, the EMCS executes a full PLM check every 12 hours.
When *PLM Check Interval* = 1, the EMCS executes a full PLM check every 5 hours.

Voice Prompt: “***PLM check interval***”

6.2.16 **Command # 30: HANDSET VOLUME SETTING (not EMCS-MR)**

The “Volume Setting” command sets the volume of the Consolidator handset speaker.

Voice Prompt: **“Volume”**

6.2.17 **Command # 31: HANDSET MIC. SENSITIVITY (not EMCS-MR)**

This sets the Consolidator handset microphone sensitivity. 0 = least sensitive; 9 = most sensitive.

Voice Prompt: **“BEEP”**

6.2.18 **Command # 32 & # 33: PHONE LINE #1 / #2 BOOST**

“Phone Line Boost” will amplify the signal for soft/quiet phone lines. Contact Customer Care (1-844-363-7266) for additional information.

Voice Prompt: **“BEEP”**

6.2.19 **Command # 34: REMOTE PHONE ATTENUATION**

For communication from “noisy” Machine Rooms, “Remote Phone Microphone Attenuation” reduces the handset microphone path volume to the elevator phone to reduce “chopping” and improve 2-way communication.

Voice Prompt: **“BEEP”**

6.2.20 **Command # 43: FACTORY RESET**

All parameters are reset to factory default. Enter <1> to confirm.

Voice Prompt: **“Factory parameters reset”**

6.2.21 **Command # 44: REMOTE SILENCE BUZZER**

“Remote Silence Buzzer” will remotely mute the Consolidator buzzer and the CID alarms. (or silence the buzzer with the “silence” button on the consolidator)

Voice Prompt: **“Silence buzzer”**

6.2.22 **Commands # 50 to # 56: PLM GROUP ASSIGNMENT (EMC-MR)**

Command #50 allocates the cab specified (1-12) to group 0 (no alarm).

Command #51 allocates the cab specified (1-12) to group 1 (default).

Command #52 allocates the cab specified (1-12) to group 2.

Command #53 allocates the cab specified (1-12) to group 3.

Command #54 allocates the cab specified (1-12) to group 4.

Command #55 allocates the cab specified (1-12) to group 5.

Command #56 allocates the cab specified (1-12) to group 6.

Examples: To allocate cab #4 to PLM group #2, in programming mode, touch 52 <ENTER> 4 <ENTER>.

Touch 52 <REPLAY> to list all cabs assigned to group 2.

All cabs are assigned to Group #1 by default and need to be pulled to their new Group. Cabs assigned to Group #0 are ignored by the daily PLM check.

Voice Prompt: “**PLM Group**”

6.2.23 **Command # 60: EMCS ID**

A unique ID must be assigned to each Consolidator if more than one are connected in the system. Use default ID = 0 for systems with only one Consolidator.

Voice Prompt: “**EMCS ID**”

6.3 Remote Programming

Lift the EMC-MR/Remote Phone handset. If an internal emergency call or an internal ALL CALL or an internal non-emergency call is already in-progress, the EMC-MR will join the call; otherwise the Consolidator will answer with one of the following prompts:

- “Station number #x is in conversation”
- “No available phone lines”
- “Phone line number #y is unavailable”
- “Off-site ALL CALL in-progress” or
- “Select the station number you wish to speak to followed by the star (*) key, or select star-star (**) for further options”
 - Select star-star (**)
 - “Select nine-star (9*) to call off-site, zero-star (0*) to call the lobby, select star-star (**) to initiate an all system page or enter the access code for programming mode” (factory default is 12345)
 - Enter the access code, to which the Consolidator will respond “Program” followed by a confirmation beep unless the access code is incorrect, in which case the prompt “Incorrect entry, please re-enter” will play.

In remote programming, key sequences exist to replicate the functions found on the Consolidator keypad. Use the following table to look-up the equivalent remote key sequence for the different keypad functions:

Keypad	Equivalent Remote Sequence
PROGRAM	99* + “Access Code”
CANCEL	*1
ENTER	**
REPLAY	#
EXIT	*9

7. Precautions

Always follow basic safety precautions when using your telephone equipment to reduce the risk of fire, electrical shock, and injury.

1. Read and understand all instructions in the User Guide.
2. Read all warnings and follow all instructions.



CAUTION – Do not replace the batteries with alkaline batteries. Use only an identical rechargeable battery or a battery recommended and supplied by the manufacturer. Unplug the battery if the mains power will be disconnected and the system not used for long periods.

3. Do not use liquid or aerosol cleaners.
4. Do not use the telephone near water, a bathtub, wash bowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
5. Use only the type of power source supplied by the manufacturer or specified in these instructions (must be current-limited to class 2). If you are not sure of the type of substitute power supply, consult your dealer or the manufacturer.
6. Never spill liquid on the telephone equipment.
7. Do not disassemble this product unless qualified to do so. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electrical shock.
8. Do not overload outlets and extension cords if connecting the phone to AC power from an outlet. Overloading the outlets can result in fire or electric shock.
9. Avoid using a telephone during a local thunderstorm due to the potential risk of electrical shock from lightning.
10. Do not use a telephone to report a gas leak in the vicinity of the leak.
11. Notify a building official if:
 - Liquid has been spilled into the telephone equipment
 - The telephone equipment has been exposed to rain or water
 - The telephone equipment exhibits a distinct change in performance.



CAUTION – Always disconnect the battery, power supply and telephone lines from the source before servicing this equipment

12. Save these instructions

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

8. Mechanical

8.1 Dimensions

EMCS

Backbox: 14.25" (362 mm) wide x 10.50" (268 mm) high x 3.15" (80 mm) deep for surface mounting or recessing between studs

Overall: 14.50" (368 mm) wide x 11.16" (283 mm) high x 3.50" (89 mm) deep

EMCS-MR

Overall: 12" wide x 12" high x 4" deep

9. Keys and Indicators

9.1 Keypad

Key + Icon	Description
1 - 12	Stations 1 to 12 (illuminated when door is open if wired-up and configured)
ALL CALL	Pages all active cabs, allowing the operator to broadcast a message
SILENCE	Silences alarm buzzer

Key	Description
0 - 9	Numeric keys 0 through 9
< * > < # >	Special characters used in program command sequences
<WAKE>	Wake up keypad from sleep mode when handset is off-hook (Wake LED turns on)
<PROG>	Enters program mode when handset is off-hook and the keypad is awake (LED on)
<LINE TEST>	When keypad awake, enables the handset to call out to test the phone line (LED turns on)
<CANCEL>	Clears/cancels current entry OR returns to the program menu
<REPLAY>	Plays back entry if valid command # is entered
<ENTER>	Accepts current command or entry
<VOL ↑>	Increments handset volume by one (up to 9)
<VOL ↓>	Decrements handset volume by one (down to 1)
<LEARN>	Auto-configuration quick key
<PLM>	Quick configuration of cabs into PLM groups
<ALARM STATUS>	Plays "NORMAL" or lists active alarms
<EXIT>	Exits out of programming mode



9.2 LEDs and Indicators

The EMCS touchpad attached to the inner door has:

- 13 cab phone icon indicators (in-conversation = green; pending action = orange; fault = red; no phone detected = off)
- 3 programming keypad LEDs
 - Wake (programming keypad awake = green)
 - Program mode (green)
 - Line test (test call in progress = green)
- 4 alarm status indicators (as described in 4.2)
 - POWER (mains off = red)
 - BATTERY (alarm pending = red)
 - PHONE LINE (fault = red)
 - PLM (alarm pending = red)

There are 13 PCB-mounted LEDs present on the main circuit board under the service panel. These LEDs provide essential diagnostic and status information at a glance:

1. Heartbeat D5 (pulsing green) (located above the large capacitors in the bottom left quadrant of the main board)
2. Power (input PWR present = green)
3. 3 x PLM (normal = green; fault = off) (located below the silkscreen label "TO EMC-ALRM")
4. PLM-PWR (output power present = green)
5. 6 x Video Triggers (idle = off; in-use = green)
6. 1 x Video Reset (idle = on; any cab in-use = off)

10. Ordering

Model and description

EMCS-BASE - High Rise for 6 cabs + 3 PLM groups + 6 video triggers in ss enclosure with handset

EMCS-MR - EMCS-BASE without handset for machine room mounting

EMCS-OEM - EMCS-BASE without enclosure for mounting in lobby panel

EMCS-FR - EMCS-BASE in ss enclosure with handset and 2 or 3 position Fire Recall switch

EMCS-EXP - for expansion to 7-12 cabs + 4-6 PLM groups + 7-12 video triggers

11. Specifications

Elevator Wiring Requirements:	One shielded pair of communication cable, minimum 24AWG, with the shield grounded at one end only , preferably the controller-end of the traveling cable.
Phone Line Requirements:	Standard analog loop-start voice grade telephone line.
Number of Phone Lines	2
Number of concurrent calls	2
Capacity (number of elevator phones)	6 (six) or 12 (twelve) with EMCS-EXP module (expandable)
Integrated Phone Line Monitoring (PLM)	up to 3 groups for 6 phones or 6 groups for 12 phones (with EMCS-EXP module)
Integrated Video triggers	Potential free contact per cab (6 or 12) Potential free contact for video reset (1)
Power Supply (supplied)	Class 2; 120V AC, 60Hz input; 16.5V AC, 40W output
Backup Power (Used if AC power is cut off)	8.4V/3800 mAh rechargeable NiMH battery. Replace every 5 years or as required (factory supplied).
Operating Range	0 – 60°C
Ringer Equivalence (REN)	0.1B
Dimensions	EMCS Backbox: 14.25" (362 mm) wide x 10.50" (268 mm) high x 3.15" (80 mm) deep for surface mounting or recessing between studs EMCS Overall: 14.50" (368 mm) wide x 11.16" (283 mm) high x 3.50" (89 mm) deep EMCS-MR: 12" wide x 12" high x 4" deep

12. 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 for a Return Authorization (RMA) number. Please provide:

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

Reference the RMA number clearly on all packaging and paperwork.

Note: Statistically, more field problems are caused by wiring, connection, installation or programming issues rather than the phones themselves. Please have your field staff call EmerCom 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.

All prices are F.O.B. our warehouse. Our responsibility ceases when the transportation company receives the material from us in good condition. Please check the shipment for completeness and for transportation damage upon receipt. If damaged a claim must be made with the transportation company immediately. We will provide the buyer all assistance possible to adjust such claims.

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.

13. FCC Notice and Customer Information

This device complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the mounting plate of the phone is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this information must be provided to the telephone service provider.

FCC REQUIREMENTS

This equipment complies with TIA-968-A,-1~5 of FCC Rules. On the base unit of this equipment is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. IF REQUESTED, THIS INFORMATION MUST BE GIVEN TO THE TELEPHONE COMPANY.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If your equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC if you believe it is necessary. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

COMPANY: EmerCom Technologies Inc.

ADDRESS: 121 – 3989 Henning Drive, Burnaby, BC, V5C 6P8

TEL NO.: 1-844-EMERCOM (1-844-363-7266)

This phone equipment contains no customer or user serviceable parts. Attempting to repair this equipment yourself will void the user's warranty. All repairs should be referred to the Customer Care Center at 1-844-EMERCOM (1-844-363-7266) to determine if the phone equipment needs to be returned.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. Contact your state public utilities commission, public service commission or corporation commission for information.

This equipment does not provide for data operation.

JACK (USOC): hardwired

RINGER EQUIVALENCE = 0.1 Class B

Facility Interface Code (FIC) = 02LS2

Service Order Code (SOC) = 9.0y

Caution - This equipment cannot report an alarm when other equipment (telephone, answering system, fax, etc.) connected to the same phone line is in use. If the phone line is shared with other users, ensure the priority of the emergency call is maintained. If in doubt, please contact us at 1-844-EMERCOM (1-844-363-7266).

Caution - To ensure proper operation, this equipment must be installed according to the enclosed installation instructions. To verify that the equipment is operating properly and can successfully report an alarm, this equipment must be tested immediately after installation, and periodically thereafter, according to the enclosed test instructions.

WHEN PROGRAMMING EMERGENCY NUMBERS AND/OR MAKING TEST CALLS TO EMERGENCY NUMBERS:

- 1) Remain on the line and briefly explain to the dispatcher the reason for the call.
- 2) Perform such activities in the off-peak hours.

14. Industry Canada Certification

NOTICE:

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

Le présent matériel est conforme aux spécifications techniques d'Industrie Canada applicables au matériel terminal. Cette conformité est confirmée par le numéro d'enregistrement. Le sigle IC, placé devant le numéro d'enregistrement, signifie que l'enregistrement s'est effectué conformément à une déclaration de conformité et indique que les spécifications techniques d'Industrie Canada ont été respectées. Il n'implique pas qu'Industrie Canada a approuvé le matériel.

NOTICE:

This product meets the applicable Industry Canada technical specifications.

Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada.

The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices not exceed five.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas cinq.