



# EM-1

## User Guide

Rev: 2.0.2412.2

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# Description

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The EM-1 auto-dialling emergency telephone offers high quality, hands-free loud speaking communication for your lift. With its built-in voice location ID message, the service provider can easily identify the location of the alarm call. With an abundance of programmable features, support for the latest in reporting to Pixel's Eliiot Cloud solution and the P100 Protocol, the EM-1 provides the perfect solution for single lift emergency communication.

## Features:

- Auto-Dialling, Hands Free Loudspeaker
- Built-in or External Speaker and Microphone options
- 3 Number Dialling Capability
- Local (SD Card) programmable
- Speak, Calling & Status LED Indication
- Single telephone line analogue FXO interface
- 16 Second Voice Storage for Location Identification Message
- Advanced System and Telephone Programming options
- Speaker and Microphone Level Adjustment Settings
- Dual Alarm Button Options (Dry Contact)
- Two Relay Output Contacts (2 Amps Max)
- Voice Playback of Telephone Line & Power Supply Faults
- Voice Playback of all Programmed Parameters
- Call Progress Detection (On/Off-Hook, Busy, Silence, Talk Time)
- Programmable via Remote Handset or On-board Keypad
- Scream Detection Auto-Dialling Capability
- Nickel-Metal Hydride (NiMH) Back-Up Battery
- eLiiOT Cloud Monitoring
- P100 Protocol

# Installation & Setup

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- 1 Flush mount the EM-1 (Inc. speaker & microphone if EM-1/SM model) and ensure they are inline with respective COP cutouts.
- 2 Referencing the Installation Diagram (back page), connect the:
  - a) Alarm Button (Dry Contact) into Alarm Button 1
  - b) Speaker & Microphone (*If EM-1/SM model*)
  - c) If available wire your External Alarm LED or Pictograms
  - d) Phone Line
  - e) Power Supply (Upon power up you will hear 3 beeps & Status LED will blink RED).

Program the unit using the on-board keypad (Default PIN: 123)

- 3 To program a single emergency help number, enter;

# PIN 9 # 0 HELP NUMBER \*

To verify, enter \* 0

To program multiple emergency help numbers please refer to the Advanced Programming Guide.

- 4 Record a voice Location ID message by entering;

# PIN # 9 Wait for 2 beeps to commence

Once you complete your recording, press 0 to end.

To hear a playback of your recording, enter \* 9

 *When recording speak 10-15cm from the microphone*

- 5 The EM-1 is now ready for use.



Incoming & outgoing test calls should be made to ensure clear communication with your service provider.

# Specifications

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Operating Voltage	12 - 24V DC
Operating Current	10mA (Standby), 200mA (Operating)
Alarm Button Inputs	Dry Contacts, Normally Open (N/O)
Relay Output Contacts	2A, 30V DC, Normally Open (N/O)
Status Indication	Status, Calling and Speak LED Indication
Voice ID Message	16 seconds (max)
Battery Type	Nickel-Metal Hydride - Operating Life 5 Years
Battery Runtime	10 Hours (Standby), 2 Hours (Talk Time)
FXO Interface	24 - 50V DC, 3kV Isolated, Analogue Line
Dialing Type	DTMF
Speaker	8 $\Omega$ 1W, 80dB (425Hz) at 1m (Programmable)
Microphone	2K Impedance, Operating Range 5 metres
Operating Temperature	0 - 50°C
Operating Humidity	90% max relative humidity, noncondensing
Dimensions (mm)	137 (H) x 80 (W) x 18 (D)

### SD Card

- On-Call Voice Recording
- Easy System Setup via confem1.txt file

Please refer to the Advanced Programming Guide for further details.

### Status LED Indication (Red)



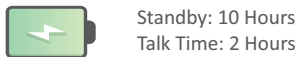
### Built-in LED Status Indicator

	CALLING Yellow	SPEAK Green
Idle	OFF	OFF
Calling (Line ON)	ON	OFF
Speak (Call Answered)	ON	ON

LED cutouts on back-side of enclosure

### Battery Replacement (Internal)

Battery replacement required 5 years from install date.



Pixel Replacement PN: **SR-EM/BAT**

### Power Supply

Input: 12 - 24V DC

Use Pixel's Emergency Lighting for a 12VDC emFONE output. This provides additional battery backup time in the event of a power failure.



To access the EM-1 Advanced Programming Guide on your tablet or smart phone

SCAN ME

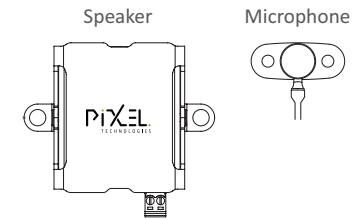
### Relay Output Contacts



Interface for External LED Pictograms  
For additional configurable Relay settings, please refer to the Advanced Programming Guide.

### External Speaker & Microphone

EM-1/SM model comes with external Speaker & Microphone  
Optional external Speaker & Microphone kit P/N: **EM-1-SPK/MIC**



For improved noise immunity keep the speaker and microphone cables short and away from high voltage wiring & DC & VF drives and audibly noisy locations, such as Eg. Lift Cabin Ceiling Fans.

Ensure that they are flush mounted and inline with speaker grill and microphone panel cutouts.

When mounting external speaker and microphone allow at least 80mm separation for optimal acoustic and speakerphone performance.

### Phone Line (FXO Interface)

PABX System, PSTN or Wireless Cellular Gateway

Some systems phone lines can provide a lower receive path audio signal (dB).

The EM-1 can compensate by providing internal gain control. If you find the audio level to be low at the speaker side, you can increase the Line Receive Level (Rx Path). For programming details please refer to the Advanced Programming Guide.

Wire Alarm Button 1 for single alarm button installs.

**Button HOLD Time:** 3 seconds (Factory default)  
**Contact:** Normally Open (N/O), Dry Contacts

**Activation:** Press and HOLD to make an emergency call. An audible beep will play when button is pressed and another beep will play when button hold time is reached.

For additional configurable 'Alarm Button' setting, please refer to the Advanced Programming Guide.

	EM-1	Date:	19-03-24
	Installation Diagram		
Designed By:	D.H	Revision:	1.0.2412.2
			Sheet: 1/1