

**Section 273000: Area of Refuge/Elevator Landing - Two-Way Communication System
Emcom Area of Refuge System**

PART I GENERAL

1.0 SUMMARY

1.1 The Emcom Master Station is to be located at a central control point on the level of egress as determined by the Authority Having Jurisdiction. Emcom endpoints are to be located on all floors above and below the level of egress, ideally next to a stairwell emergency exit or elevator landing on each floor.

1.2 The Emcom Master Station must be capable of connecting to an existing Network and providing inputs for the IP Call Boxes. Visual indicators on the Emcom Master Station allow rescue personnel to know which IP Call Box needs assistance. The Emcom Master Station must allow rescue personnel to speak to each IP Call Box individually.

1.3 The IP call boxes shall comply with the Americans with Disabilities Act (ADA). The Emcom Area of Refuge System shall have the ability to be programmed with up to 2 emergency phone numbers (either both off-site or Base Station and off-site). Upon activation of the emergency push button, a call will be automatically placed to the Emcom Master Station. If no one answers at the Emcom Master Station, the IP Call Box must dial a secondary location outside the building approved by the Authority Having Jurisdiction to activate two-way off-site person to person voice communications.

2.0 CONSTRUCTION

2.1 The Emcom Master Station shall be housed in a steel cabinet, wall mounted, Or shall be a desktop Emcom Master Station installed at a location approved by the Authority Having Jurisdiction.

2.2 The IP Call Boxes (Emcom BL1000 or Emcom IP6000 series) must be in full compliance with the ADA. IP Call Boxes require a hands-free speakerphone with an LED to indicate status of call, both when a call is placed, and when a call is received.

2.3 The Emcom Master Station must allow configuration that enables identification of a specific location message of the unit. This allows rescue personnel to know the location of the activated IP Call Box.

2.4 The IP Call Boxes are to be located no higher than 48” front reach to the center of the push button above ground level to ensure conformance with the ADA requirements.

2.5 The IP Call Boxes must have a Braille face plate to ensure conformance with the ADA requirements.

2.6 The Emcom Master Station must provide an audible and visual indicator that an IP Call Box has been activated.

2.7 A compatible UPS power supply must be capable of supplying sufficient power to a PoE switch powering all connected Call boxes as well as the Emcom Master Station.

3.0 MOUNTING

3.1 The Emcom Master Station shall be mounted in a steel cabinet, Wall mounted, OR desk mounted.

3.2 The IP Call Boxes are to be wall or flush mounted

4.0 Electrical

4.1 The Emcom Master Station is to be powered by 110VAC, connected to a UPS. The IP Call Boxes are to be powered by 48 VDC PoE or 12 to 54 VDC.

4.3 The Emcom Master Station shall connect to the Network switch with an ethernet cable.

4.4 Each IP Call Box shall connect to a local Network Switch directed to the Emcom Master Station. Wiring from the IP Call Box to the Network Switch shall support PoE.

4.5 The phone shall have call indicator lights with one red light and one green light. The red light shall be text that reads “CALLING” OR a “phone ringing” icon. The green light shall be text that reads “RECEIVED” OR a “√”. These lights will correspond in real-time to the progress of the call.

4.6 System shall be in compliance with all state and local electrical codes.

5.0 COMMUNICATIONS

5.1 The IP Call Boxes shall be an ADA compliant and vandal resistant speakerphones.

5.2 The IP Call Boxes shall be hands-free and be a push-button-once to talk system. Once the button has been pushed, the IP Call Box will call the Emcom Master Station. If there is no answer at the Emcom Master Station, it will automatically call a preprogrammed emergency number. The Emcom Area of Refuge System must be capable of being programmed with up to 2 emergency phone numbers (either both off-site or the Emcom Master Station and off-site).

5.3 If the system is not attended to, 24 hours a day, unanswered calls to the Emcom Master Station must dial a secondary location outside the building to activate two way off-site person to person voice communications.

5.4 Once a call has been made (button pushed), the call can only be terminated by the called party.

5.5 The IP Call Box must have a red LED that will light up upon push of the button. The IP Call Box must have a green LED that will light up when the call is connected.

5.6 The IP Call Box must be capable of being programmed and reprogrammed on-site.

6.0 SIGNAGE

6.1 The system shall consist of illuminated signage (Where illuminated exit signs are also required), and a “location” and “instruction” sign to clearly indicate the location of the area. A tactile sign with raised letter and Braille shall be located at the entrance to the area.

7.0 GRAPHICS

7.1 The Emcom Master Station must include wording identifying the location of each IP Call Box and provide a visual notification when a particular IP Call Box has been activated.

8.0 CABLING

8.1 Cabling for the two-way communication system shall meet the applicable requirements for pathway survivability. Cabling installation shall consist of the following:

8.1.1 2 hour fire rated circuit integrity (CI/CIC) cable – Comtran Cable’s VITALink FHIT System 40A

8.1.2 2 hour fire-rated enclosure or protected area

8.1.3 Cable or cabling system shall have a UL 2196 listing

9.0 WARRANTY

9.1 The Emcom Area of Refuge system shall be warrantied against any defects in material and workmanship, under normal use and proper installation, for a period of 1 year from the date of shipment by the manufacturer. If the unit is found to be defective within the warranty period, the manufacturer shall repair and/or replace any defective parts, provided the equipment is returned to the manufacturer.

10.0 MANUFACTURER



Exton Capital Corporation dba Emcom Systems

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10.1 The Manufacturer shall be

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THERE ARE NO EQUIVALENTS.