# SmartPhone Specifications

**RATH**
**by AVIRE**

**Part 1 - General**
**1.0      Summary**
1.1      The Elevator Phones are to be located in each elevator either behind the COP, flush mounted to panel face, or in an existing phone box.
1.2      The Elevator Phone shall comply with the Americans with Disabilities Act (ADA). The elevator phones shall have the ability to be programmed with up to 5 emergency phone numbers. Upon activation of the emergency push button, a call will automatically be placed to an emergency location, if no answer it must try the number again or dial a secondary location (up to five locations). Elevator Phones must continue calling until answered and two-way off-site person to person voice communications has been established.
1.3      The Elevator Phone must be programmable to check the status of the incoming telephone line every 10 minutes up to every 23 hours. Upon failure to detect an active telephone line the elevator phone must provide a relay contact to an Annunciator Device (2100-ALARM) located at the designated landing in the vicinity of the "fire recall switch". Must function on analog, digital, cellular, or VoIP communication lines and allow for "communication failure" alarm.
1.4      Elevator Phone must allow for calls out on analog, digital, cellular, or IP communication lines.

**2.0       Submittals**
1.1      Submit product data sheets. Include operation manuals.
1.2      Wiring or shop diagrams detailing wiring schematics, cabling.

**3.0      Construction**
3.1      The Elevator Phone shall be 24vac/dc or 120vac powered and include a rechargeable battery to maintain backup power for a minimum of 4 hours of talk time.
3.2      Elevator phones shall be mountable behind a COP, flush mounted to a panel face, or surface mounted.
3.3      Surface mount phones shall be available in black ABS, Stainless Steel, or red powder coated metal enclosures.
3.4      Flush mount phones shall be available in brushed Stainless Steel, mirrored Stainless Steel, brushed Muntz, or mirrored Muntz plate.
3.5      Behind the COP phones will line up with elevator company speaker grill, microphone hole, and be compatible with their push button, LED, and Braille label.
3.6      The Elevator Phones must be in full compliance with the Americans with Disabilities Act (ADA). Elevator Phones require a hands-free speakerphone with an LED to indicate status of a call.
3.7      The Elevator Phones must allow the programming in of a specific voice message indicating the location of the elevator.
3.8      The Elevator Phones must be programmable to check the status of the incoming telephone line every 10 minutes up to every 23 hours. Upon failure to detect an active telephone line the Elevator Phone must provide a relay contact to an Annunciator Device (2100-ALARM) located at the designated landing in the vicinity of the "fire recall switch".
3.9      The Elevator Phones must light an LED. LED shall be solid upon phone activation and blinking upon call answered.

**4.0      Mounting**
4.1      Elevator Phones are to be mounted behind the COP, flush mounted to panel face, or in an existing phone box.

**5.0      Electrical**
5.1      Elevator Phones must have battery backup capable of providing up to 4 hours of electrical backup in case of building power failure.
5.2      Elevator Phones must be powered either from COP provided 24vac/dc power or 120vac with RATH® step down transformer.

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**6.0   Communications**
- 6.1    The Elevator Phones shall be an ADA compliant and vandal resistant speakerphone.
- 6.2    The Elevator Phones shall be compatible with analog, digital, cellular, and IP phone lines and maintain full code compliance.
- 6.3    The Elevator Phones shall be hands-free and be a push-button-once to talk system. Once the button has been pushed, the Elevator Phone will automatically call up to 5 pre-programmed emergency numbers.
- 6.4    The Elevator Phone shall have location message capability. Elevator Phone must include a minimum 18 second recordable message, programmable to play 1 or 2 times. Elevator Phone shall notify called party of the location of the elevator upon receipt of call.
- 6.5    The Elevator Phone shall be capable of allowing the called party to replay the location message if necessary to ensure an understanding of the elevator's location.
- 6.6    If the building location does not have a 24/7 attendant on duty, the Elevator Phone must dial a location outside the building.
- 6.7    Once call has been made (button pushed), the call can only be terminated by the called party.
- 6.8    The Elevator Phone must have a red LED that will light up upon push of the button. The light shall be a solid color when the Elevator Phone is activated and will flash when call has been answered.
- 6.9    The elevator phone must be capable of being programmed and re-programmed on-site and remotely.
- 6.10   Standard Elevator Phone features:
    - 6.10.1 Five number programming
    - 6.10.2 Operating temperature of between -40˚F to +150˚F (-40˚ to + 65˚ C)
    - 6.10.3 Location message
    - 6.10.4 Telephone line verification
    - 6.10.5 Standard analog or digital telephone input
    - 6.10.6 Cellular communication option
    - 6.10.7 IP phone line input
    - 6.10.8 Battery backup (4 hours)
    - 6.10.9 On-site or remote programmable
    - 6.10.10 120vac or 24vac/dc power
    - 6.10.11 EEPROM memory to protect programming

**7.0   Graphics**
- 7.1    Elevator Phone wording must include "Emergency Phone", the International Phone Symbol, and raised Braille lettering.

**8.0   Product Substitutions**
- 8.1    No substitutions.

**9.0   Warranty**
- 9.1    The elevator phones shall be warranted for a period of two years.

**10.0   Manufacturer**

The manufacturer shall be:
RATH® Communications
N56 W24720 North Corporate Circle
Sussex, WI 53089
www.rathcommunications.com