



Product Requirement:**SmartView Elevator Visual Communication System ASME A17.1 Section 2.27.1****Part 1 - General****1.0 Summary**

- 1.1 A RATH® SmartView Controller Board, Display, remotely viewable Camera, and dedicated Yes / No buttons are to be installed in each elevator. The display is to be mounted on the same COP as the emergency phone call button along with the Yes / No buttons and the camera may be mounted in the COP or ceiling mounted.
- 1.2 The RATH® Display and Camera along with the Yes / No buttons will be interfaced with the RATH® Controller and shall allow for both remote access via the internet or with additional components allow for a fully Intranet (LAN) based interaction (requires special software in SmartView Controller). Each Controller must have a unique ID to allow for secure access by authorized personnel and location identification. This ID is to be recorded into the location message of the RATH® 2100 series SmartPhone located in the elevator or noted in the account by the “monitoring” company.
- 1.3 When the RATH® elevator phone is activated and no response is heard by the operator, the operator must be able to view the camera in the car to verify if it is occupied and be able to send a message to the display if the occupant is deaf or has difficulties hearing. The occupant can respond Yes or No using the dedicated buttons.
- 1.4 For buildings 60’ and over a central control point must be installed that allows for both verbal and visual communication back to the car.
- 1.5 System thru the RATH® Extenders must be plugged into a backed up 120v power source or the RATH® RP7700104S.

2.0 Definitions

- 2.1 RATH® SmartView Controller: An internet or optional cellular modem device that interfaces with the display, camera and Yes / No buttons within the elevator car allowing for remote access by authorized personnel.
- 2.2 RATH LAN based device 2100-SVINTSERV allows for internal communication on a LAN network when the facility cannot allow for connections to the internet. Requires update of SmartView Controller to allow for LAN communication.
- 2.3 RATH® SmartView Controller ID: Unique numeric or alpha-numeric identifier to allow secure access to authorized personnel only.

- 2.4 RATH® SmartView Display: A device located in the elevator COP that will show text-based emergency messages to occupants in the elevator.
- 2.5 RATH® SmartView Camera: A device located in the elevator that provides emergency personnel live video of the inside of an elevator car.
- 2.6 RATH® SmartPhone Elevator Phone: A device located in the elevator for contacting emergency response personnel.
- 2.7 POE: Power Over Ethernet.

3.0 Submittals

- 1.1 Submit product data sheets. Include operation manuals, and data usage.
- 1.2 Wiring or shop diagrams detailing wiring schematics, cabling.

4.0 Construction

- 4.1 The Controller shall have input connections for a Display, Camera, Yes / No buttons and power. It shall output connection for the internet communication.
 - 4.1.1 The Controller, Camera, Display and buttons shall operate in a minimum temperature range of 32°F to 158°F (0°C to 70°C).
- 4.2 The display shall have black text on a white background.
 - 4.2.1 The display shall have 3/16" text height minimum and adjust up to 5/8".
- 4.3 The Yes and No buttons shall require no more than 5lbs of force to activate.

5.0 Mounting

- 5.1 Displays are to be mounted in the COP.
- 5.2 Cameras are to be mounted in the COP or ceiling mounted.
 - 5.2.1 When mounted in the COP the camera shall be located between 55" and 60" with a bracket allowing for up to 30 degrees of downward viewing.
- 5.3 The Controller shall be mounted behind the COP, ceiling, or car top.

6.0 Electrical

- 6.1 The Controller must be powered from a backed up power source through the connection to the machine room via the RATH® Extenders or a connection to a PoE+ switch.
- 6.2 The Display shall be powered by the Controller.
- 6.3 The Camera shall be powered by the Controller

7.0 Communications

- 7.1 The RATH® SmartPhone shall be activated when the emergency phone push button is pressed.

- 7.2 The SmartPhone shall include the unique SmartView Controller ID in its pre-recorded message.
- 7.3 Once the ID is accessed by authorized personnel; the Controller, Camera, and Display will be activated and begin to transmit data.
 - 7.3.1 An open message input field shall be available to the call center personnel to allow for adaptive messaging.
 - 7.3.2 In the same viewport the camera shall be viewable to allow for messages and camera viewing to be done simultaneously.
- 7.4 Occupant responses shall be displayed to authorized personnel and the occupant.
- 7.5 If the authorized personnel dispatches assistance, a message shall be sent stating, "Help is on the way" to notify the occupant in the elevator.
- 7.6 Messages sent by authorized personnel must be in a simple format where a Yes or No response can be given by the occupant.
- 7.7 Once the call has been made (button pushed). The call, camera stream, and display stream can only be terminated by the called party.
- 7.8 The RATH® SmartView Controller must be capable of being activated on-site and remotely.
- 7.9 Communication must also be available through a central control point when required.
- 7.10 A network connection with unrestricted access to the internet must be provided (or the RATH® Cellular Gateway) for communication to the monitoring of the system.

8.0 Graphics

- 8.1 Yes and No response buttons shall be properly identified in the COP panel.
- 8.2 If the RATH® display is not being used for any other function it shall remain off or show a black screen in an idle state.

9.0 Product Substitutions

- 9.1 No substitutions.

10.0 Warranty

- 9.1 The two-way visual communication systems shall be warranted for a period of two years.

11.0 The manufacturer shall be:
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