



Product Specification

- Emergency Call Station/Radio: Model 2100-854RF

1.0 General Description

- 1.1 The Emergency Call Station Solar/Radio is required to eliminate the need to trench for electrical and phone lines.
- 1.2 The Emergency Call Station shall be rectangular in appearance and made of continuous steel construction. The Emergency Call Station shall stand 39" high and be capable of being mounted flush on a wall or on a pole. The words "EMERGENCY" with bright reflective lettering shall be located on the front and the words "EMERGENCY" on the sides. The Radio shall be powered with a solar panel accompanied with a battery for power storage.
- 1.3 The Emergency communication component shall comply with the American with Disabilities Act.

2.0 Construction

- 2.1 The Emergency Call Station shall be constructed of galvanized steel that is weatherproof and manufactured with a weather and corrosion resistant finish.
- 2.2 The Emergency Call Station is to stand 39" high, 10" wide and 8" deep with all components of its construction to be vandal resistant.
- 2.3 The Emergency Call Station plate shall be made of stainless steel and be 13" inches high and 7" inches wide.
- 2.4 The Emergency Call Station Radio button on the Emergency Call Station is to be located no more than 36" above ground level to ensure conformance with the American with Disabilities Act (ADA) requirements.
- 2.5 Emergency Call Station Tower must have a Braille faceplate located approx. 36" above ground level to ensure conformance with the ADA requirements.
- 2.6 The strobe shall be mounted within overall construction of unit enclosed within Plexiglas housing. Strobe will come fully assembled.





- 2.7 Phone electronics and most electrical connections must be housed in a Nema enclosure within the Emergency Radio Tower.
- 3.0 Mounting
 - 3.1 The Emergency Call Station is to be mounted on a flat wall surface or on a pole if the pole mounting bracket is being utilized.
 - 3.2 Solar Panel is to be mounted remotely from Phone with conduit running from the Emergency Call Station to the Solar Panel to protect against vandals. The Solar panel must face south and be at an angle equal to the locations (latitude * .9) + 29 degrees. Example. 45 latitude will equal 69.5 degrees from horizontal.
- 4.0 Electrical
 - 4.1 The phone shall be powered by a 43 watt solar panel along with a 58 amp battery for energy storage.
 - 4.2 Battery is connected at time of installation with a nut/bolt/washer combination. (Provided by Rath as part of Solar/Radio Unit)
 - 4.3 A voltage regulator with an input power of 6.5 amps at 12 volts must be installed. (Provided by Rath as part of Solar/Radio Unit)
 - 4.4 The power consumption cannot exceed 2.4 amps with a fully active radio unit, strobe and power supply.
- 5.0 Lights
 - 5.1 Strobe light shall be located at the top of the Emergency Call Station Emergency Radio Tower. The strobe shall be activated upon pushing of the emergency radio button. The strobe shall have an output of approx. 1,000,000 Candlepower and flash at a rate of a minimum of 70 times per minute.
 - 5.2 Blue light Single Element Strobe flashes when phone is activated.
- 6.0 Communications
 - 6.1 The unit shall have an ADA compliant and Vandal resistant.
 - 6.2 The Radio shall be a 1 push to talk phone. Once the button has been pushed, the radio will transmit, release button to listen.





- 6.3 Radio plate must have a red LED that will light up upon push of the button and when receiving transmission.
- 6.4 Frequency Range Options 66-88MHz, 136-174MHz, 400-430MHz, 440-480MHz, 450-490MHz, 480-512MHz
- 6.5 Standard Radio features:
 - 6.5.1 Weatherproof speaker.
 - 6.5.2 Weatherproof microphone.
 - 6.5.3 Operating Temperature of between -40°F to +150°F (-40° to + 65° C)
- 7.0 Finish
 - 7.1 Unit shall be powder coated white with a weatherproof and corrosion resistant finish. End user must be capable of requesting custom colors.
 - 7.2 Unit must be UV resistant
- 8.0 Graphics
 - 8.1 All wording shall be made of highly reflective vinyl lettering.
 - 8.2 The Standard text like "EMERGENCY" shall be available in Blue with each letter to be a minimum of 3" in height.
- 9.0 Options
 - 9.1 There shall be custom paint options for the Mini Emergency Radio Tower.
 - 9.2 System must allow for custom school or company's logo on the tower similar to how the words "Emergency" is affixed.
 - 9.3 System must allow for custom tower notification lettering in place of "Emergency" if requested.
 - 9.4 Strobes must also be available in Red and Amber
- 10.0 Warranty
 - The unit shall be warranted for a period of two years.
- 11.0 Manufacturer
 - The manufacturer shall be:
 - Rath
 - N56 W24720 North Corporate Circle





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