Naloxone Safety Kit User Manual

Paramedics Version, Apr. 3rd, 2023

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User Roles and Permissions

Paramedics

After the safety kit dials 911, the patient must be taken to the hospital by the paramedics. By pressing a button on the safety kit, they can contact the administrator for assistance if they require additional information. After receiving their phone numbers, the administrator will call the paramedics to provide additional support. If admin permits, the paramedics can replace the naloxone inside the safety kit as well as making changes to the naloxone information. The paramedics do not have access to other settings of the device.

User Interface

Taskbar

The taskbar, which displays the time as well as pushbuttons, indicators, and notifications, is an essential component of the user interface. It can always be found on the screen's bottom. It is intended to adapt to the safety kit's current state dynamically. Indicators for the safety kit's status include whether the CPU fan is on and whether the naloxone has been destroyed. Users can quickly check the safety kit's status and take the necessary action by monitoring the taskbar.
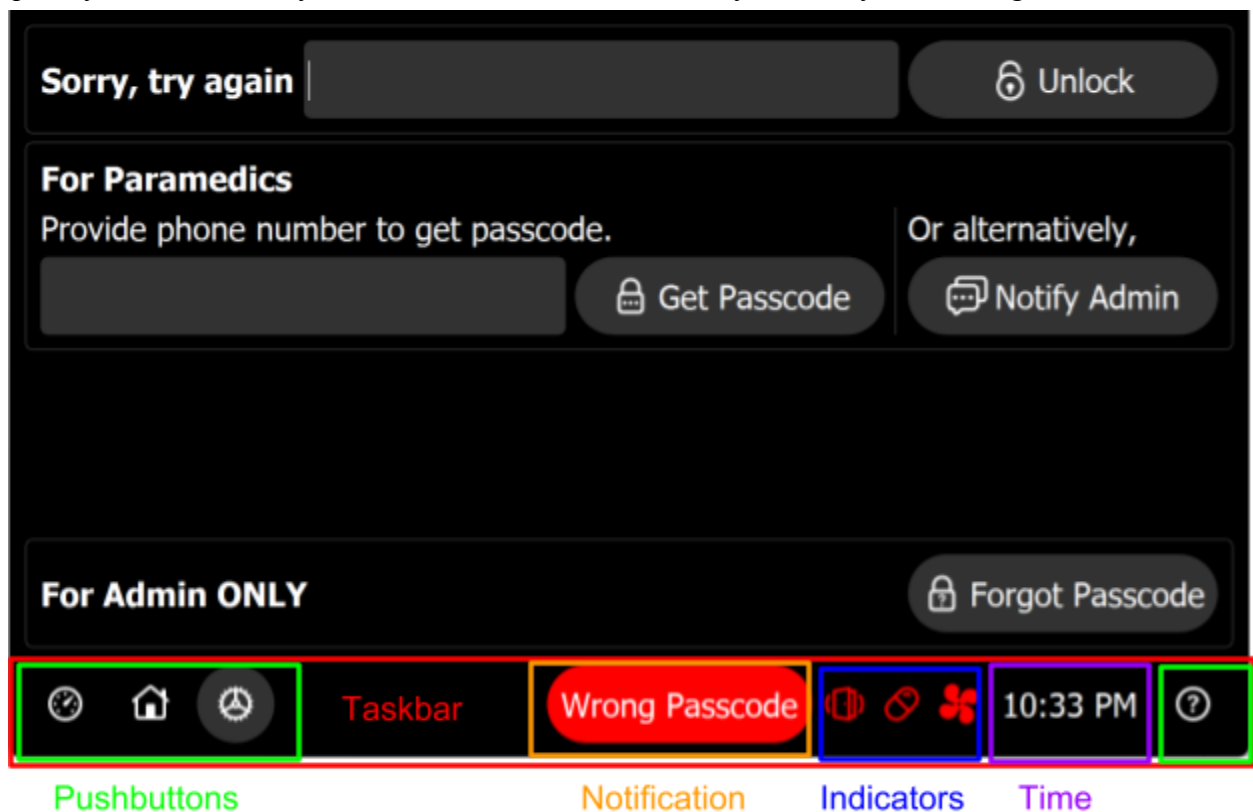

Figure UM1: Taskbar Location.

Pushbuttons

The taskbar's pushbuttons are an essential user interface component that enables fundamental user interactions. To access various software pages, users can click on the push buttons. For instance, the software's settings can be accessed and modified by pressing the "Settings" push button. The software's detailed usage instructions can also be found by pressing the "Help" button. It is essential to keep in mind that although the pushbuttons' availability may change depending on the device's state, they will always offer users an easy way to navigate the software.

Pushbutton	Action
⌂	Go to the home page.
◷	Go to the dashboard page.
⚙	Go to the settings page.
ⓘ	Show help for the current page.
💾	Save the current settings to "safety_kit.conf". The settings will be applied immediately after saving. You will only see this push button when you are on the settings page.
⊕	Go back to the door open page. You will only see this pushbutton when you access the settings from the door open page.

Table UM1: Taskbar Pushbuttons.

Settings Screen

The Settings allows the user to set different device parts. Security, Naloxone, Twilio, Emergency Call, Alarm, Power Management, and Admin are among the tabs on the settings page. Users can lock or unlock settings through the Security tab. Users can set the naloxone's expiration date and maximum temperature in the Naloxone tab. Users can modify the information associated with their Twilio account through the Twilio tab. Users can set the phone number called in an emergency using the Emergency Call tab. The Alarm tab permits users to create MP3 documents to alarm nearby people and change the volume. The Power Management tab lets users decide whether to enable active cooling and adjust screen brightness. The Admin tab helps users to test their settings utilizing calls or SMS messages. The software can be tailored to meet the user's specific requirements by allowing users to modify these settings. For the paramedics, only the Security tab and Naloxone tab will be available.
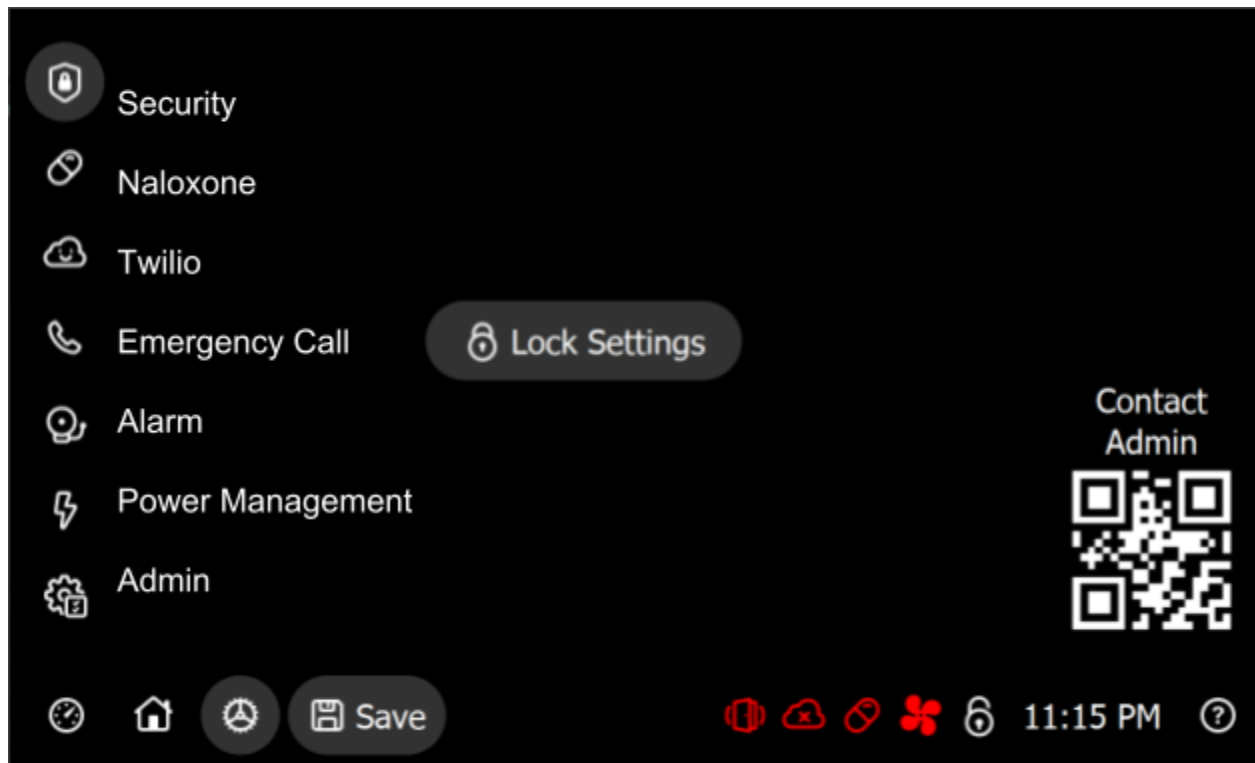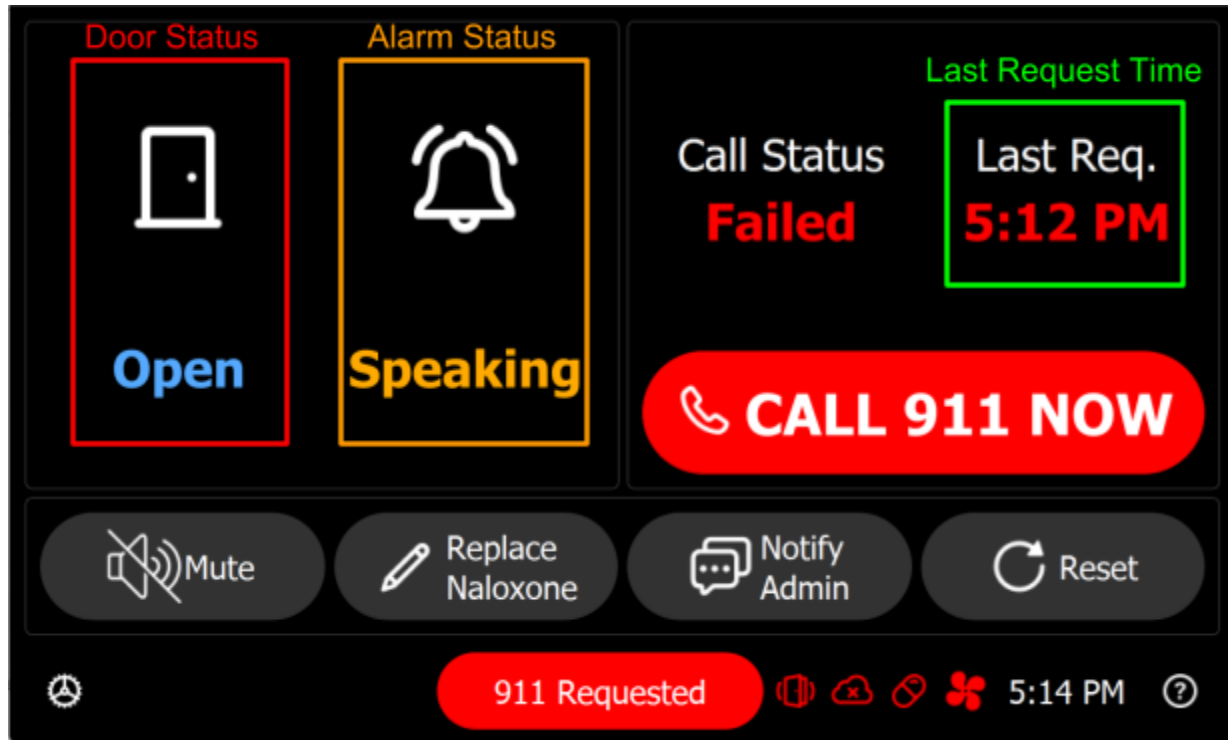

Figure UM2: Settings Tabs.

Door Open Screen

Figure UM3: Door Open Page UI.

Pushbutton Function Summary

Note that not all pushbuttons will be shown on the door open screen at the same time. The UI will adjust itself so that the user can get access to the most needed function in a simplified manner.

Pushbutton	Function
Stop	Stop the countdown timer so that the emergency phone call will not be automatically called.
CALL 911 NOW	Call the emergency number immediately. Pressing this button will automatically set the countdown timer to timeout.
Mute	Stop the alarm sound. You cannot enable the alarm again unless the next emergency call request failed.
Replace Naloxone	The settings page will appear so the user can enter new information about the replaced

|	naloxone.
Notify Admin	The admin will receive an SMS saying that paramedics have arrived.
Reset	Reset the device to the default state. Always close the door before pressing this button.

Table UM2: Door Open Screen Pushbuttons.

On Door Open

The door open screen will be shown when the door is opened, and the door sensor is enabled. It will first show a countdown timer. Within the countdown period, the user can stop the countdown to disable emergency phone calls by pressing the "Stop." They can also shut down the door to go back to the previous screen when opening it accidentally.
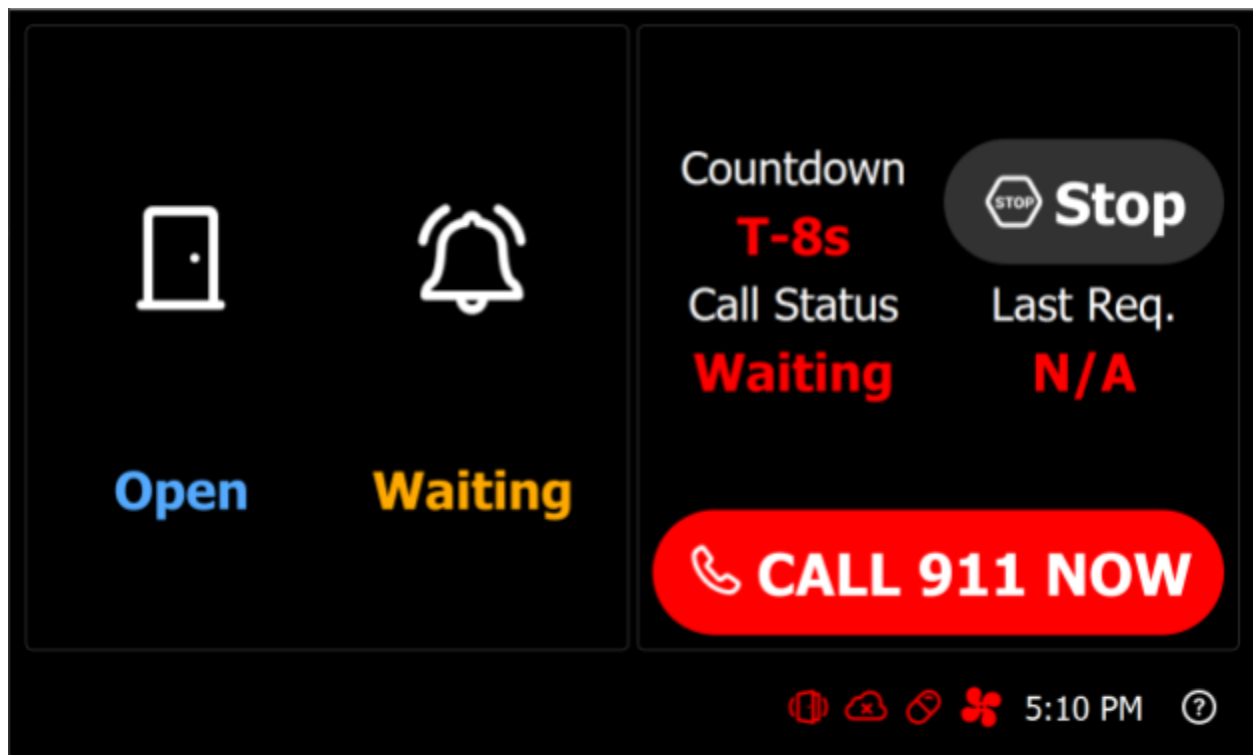

*Figure UM4: Door Open Page with Countdown Timer.*
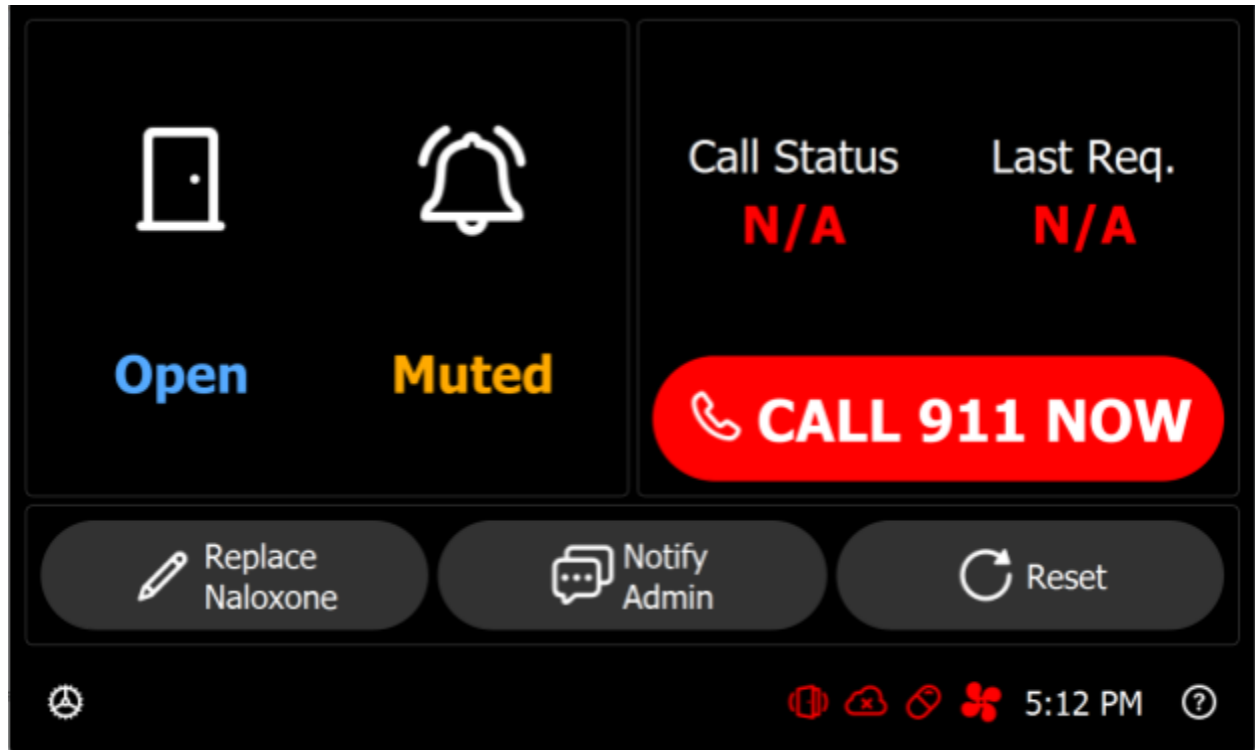
Figure UM5: Door Open Page after Pressing Stop.

After pressing the "Stop" button, the user must manually reset the device. They need to ensure that the door is closed before resetting. Otherwise, the device will not be reset and a warning will be shown in the taskbar. They can also observe the text under the door icon to check whether the door is closed or not.
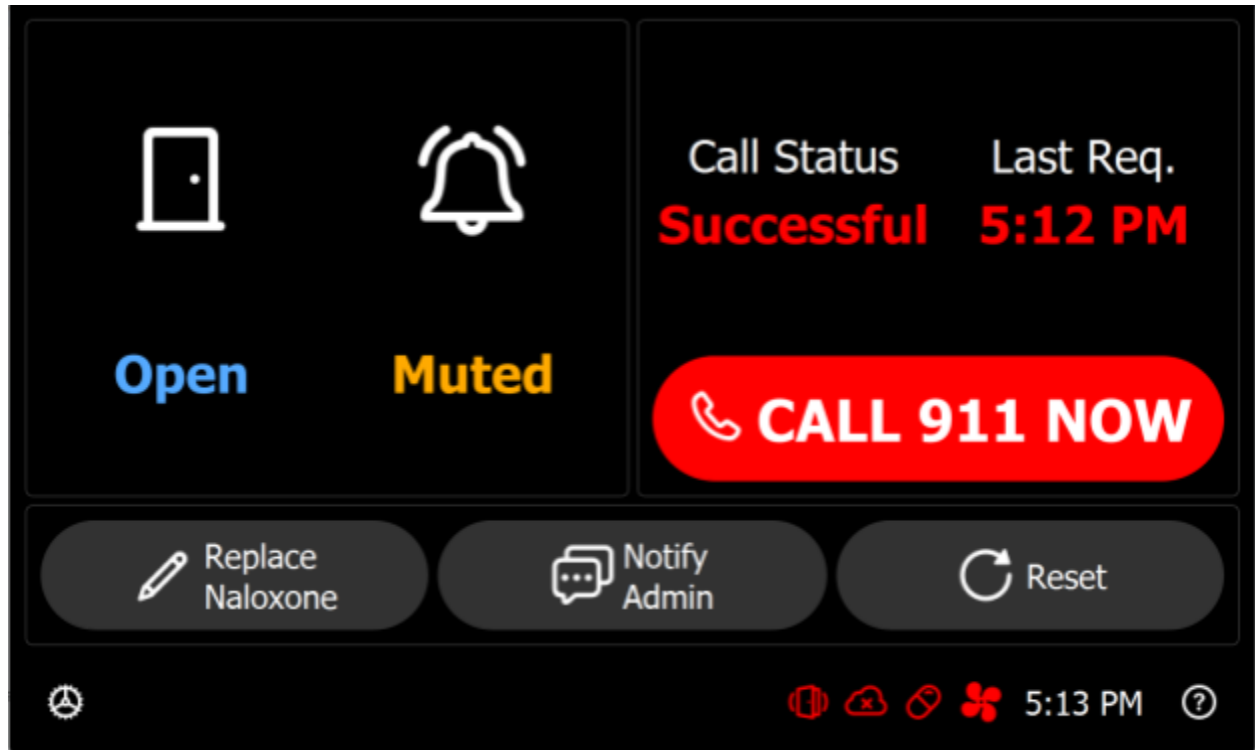
Figure UM6: Door Open Page after Successful Emergency Call.

If there is indeed an emergency, the user can press the "CALL 911 NOW" to call the emergency immediately or wait for 10 seconds before the device calls 911 by itself. If the 911 is placed successfully, the alarm will not be played by the device to minimize disruption.
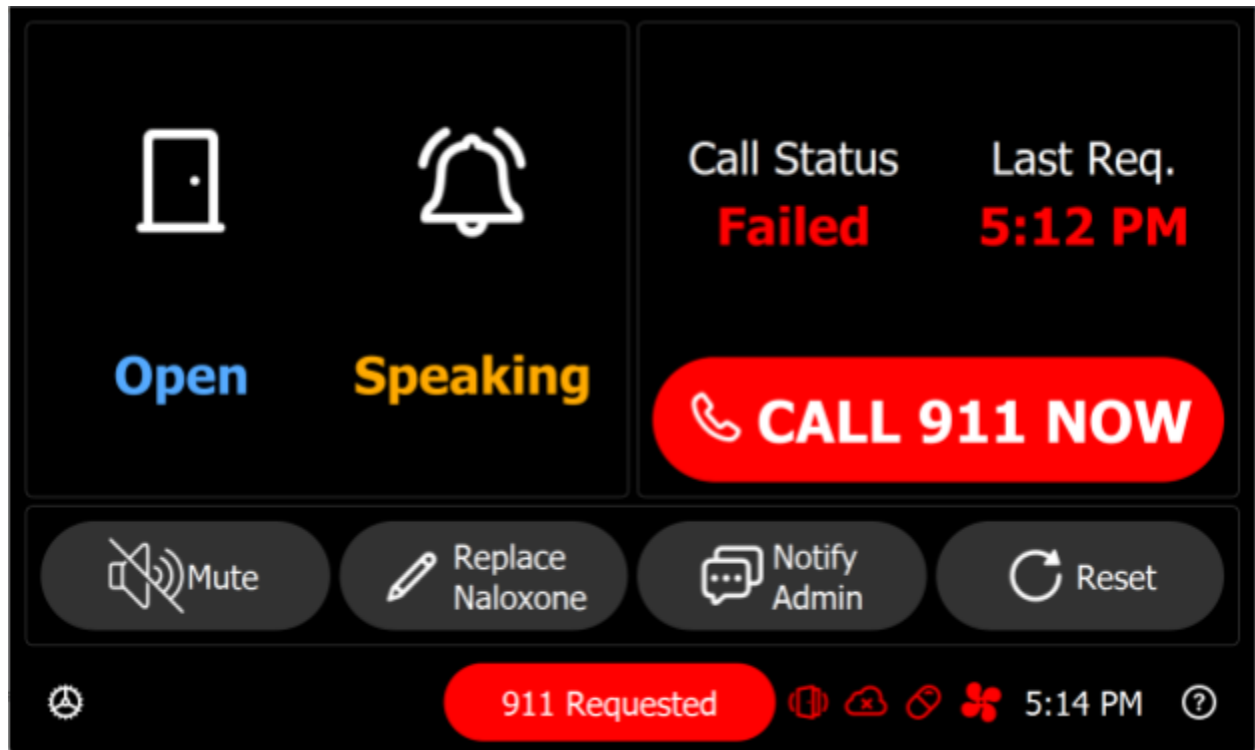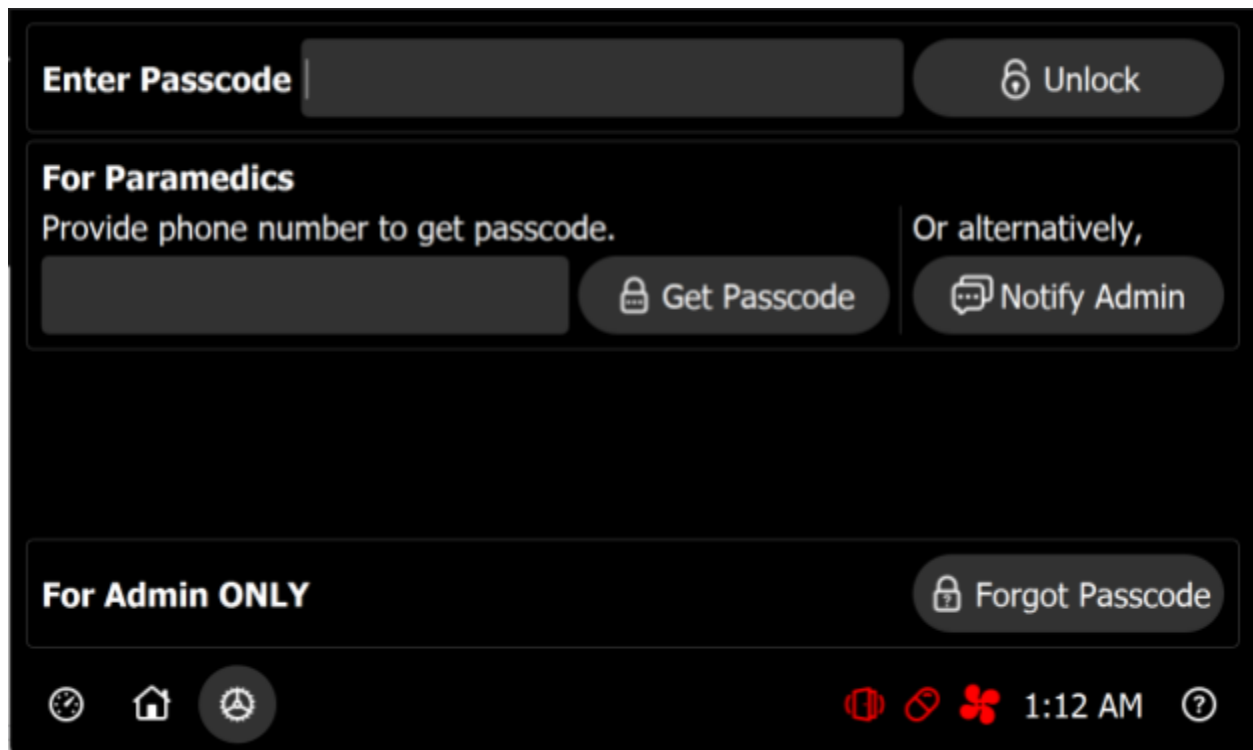
Figure UM7: Door Open Page After Unsuccessful Emergency Call.

If the emergency call cannot be placed successfully, the device will play the alarm file generated when setting up. The user can press "Mute" to stop the alarm if they want to.

Passcode Screen

Both the administrator and the building manager can enter their passcodes on the passcode screen to access the various settings that are available to them. Paramedics can use the "Notify Admin" button to send an SMS to the admin so that the admin can come and replace the Naloxone on their own if the admin has restricted access to only the admin. Paramedics can enter their phone number into the designated field to retrieve the Naloxone passcode on their phone if the administrator grants them access. Using the "Forgot Passcode" function, the administrator can also get their passcode by sending an SMS to their registered phone number. This screen with a passcode helps ensure that only authorized individuals have access to the sensitive safety kit settings.


Figure UM8: Passcode Screen.

Settings

This section includes detailed information about all available settings to customize the user experience.

Security Settings

The Security page of the Naloxone safety kit allows you to secure the device's settings by locking or unlocking them. By default, all settings are locked, and you need to enter an admin passcode to unlock them.
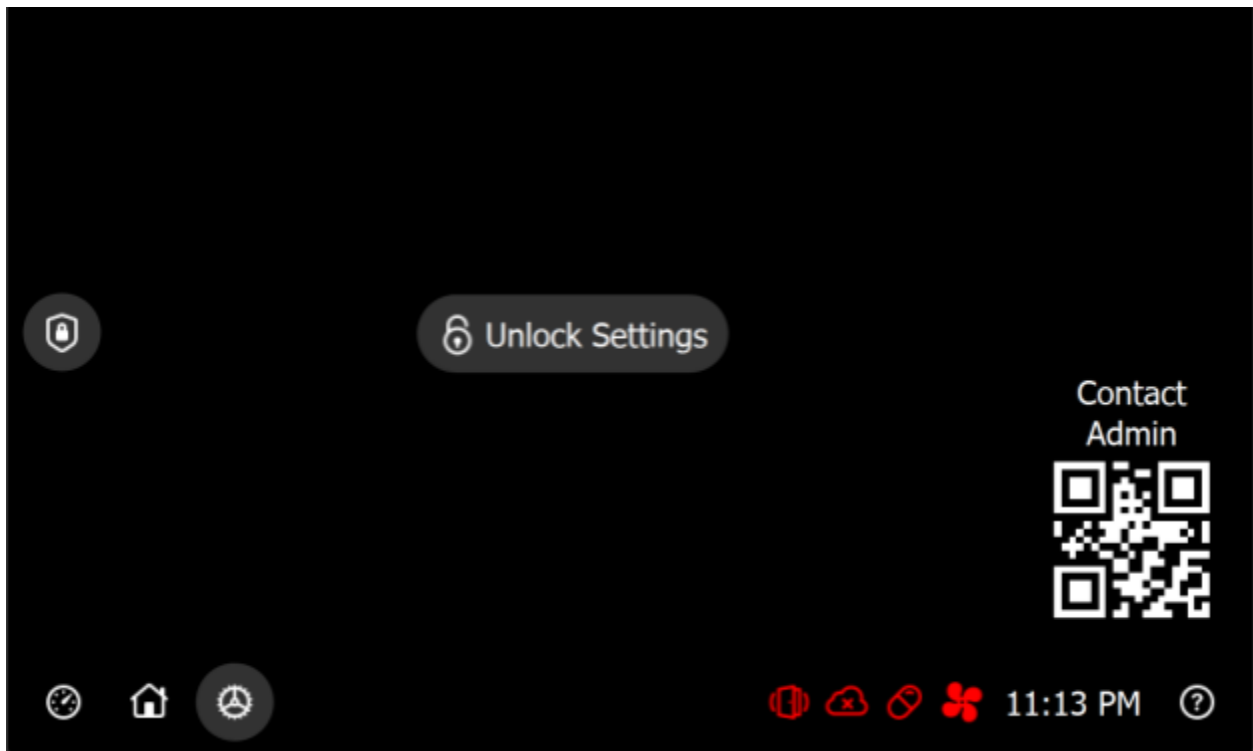
Figure UM9: Security Settings.

Unlock Settings

To unlock the settings, navigate to the Security page and press the "Unlock Settings" button. You will be taken to the Enter Passcode page, where you can enter the admin passcode. If no passcode is set, pressing the "Unlock Settings" button will automatically unlock all settings. Once the settings are unlocked, a white unlock icon will appear in the bottom right corner of the screen.

Lock Settings

To lock the settings on your device, navigate to the Security page and press the "Lock Settings" button. If a passcode is set, you will need to enter it again to access the settings. Alternatively,

the settings will be automatically locked when you leave the settings pages. By locking the settings, you can prevent unauthorized access to your device and ensure the safety of the Naloxone safety kit.

Contact Admin QR Code

Similar to the QR code on the home screen, the user can get the admin phone number by scanning the QR code.

Naloxone Settings

The Naloxone page on the Naloxone safety kit allows you to update information about the Naloxone nasal spray stored in the device. By using the controls on this page, you can set a new maximum temperature for storing the Naloxone and update the expiration date of the Naloxone using the calendar widget.
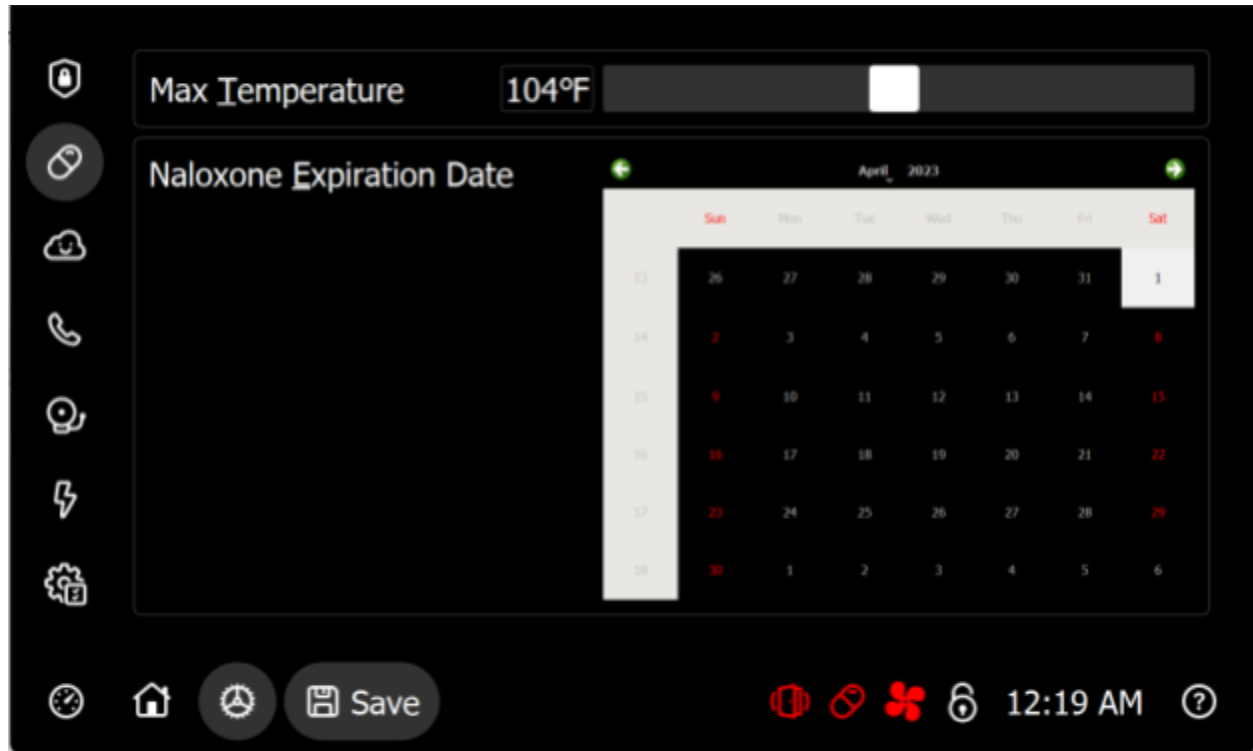
Figure UM10: Naloxone Settings.

Max Temperature

The Naloxone nasal spray should be stored at a maximum temperature of 104 degrees Fahrenheit to ensure its effectiveness. You can adjust this temperature by using the slider control on the Naloxone page. The current temperature setting will be displayed on the adjacent label. If the maximum temperature is reached, the system will display a red pill icon in the taskbar as well as a persistent notification. To ensure the proper functioning of the Naloxone safety kit, it is recommended to enable SMS reporting so that the admin can be notified in the event of overheating.

Naloxone Expiration Date

The Naloxone page also allows you to view and update the expiration date of the Naloxone. Once the Naloxone has expired, the system will display a red pill icon in the bottom right corner of the screen. It is recommended to enable SMS reporting so that the admin can be notified in the event of an expired Naloxone.

Appendix A: Naloxone Replacement Manual For Paramedics

Naloxone Replacement Procedure

1. Enter your phone number in the box provided, including your area code. If you have a US phone number, please format it as "+1XXXXXXXXXX".
2. Press the "Get Passcode" button. You will receive the passcode on your phone via text message.
3. Enter the passcode in the top box on the screen and press the "Unlock" button to gain access to the Naloxone expiration date settings.
4. Update the expiration date for Naloxone by using the calendar widget or entering the date manually.
5. Also change the maximum storing temperature if needed. You should be able to find the maximum storing temperature at the box of the naloxone.
6. After entering the new expiration date, press the "Save" button to save the changes.
7. Once you have saved the changes, press the "Home" button to exit the settings page.

Notifying Admin Procedure

Press the "Notify Admin" button so that the admin can know that an overdose incident has occurred.

What information will be collected?

Your phone number will be sent to the admin so that they can help you replace naloxone and reset the device afterwards. Other personal information will not be collected.