PARADOX

SR40M / SR40M-SL

Outdoor/Indoor Sirens



INSTALLATION MANUAL

FW: V1.03.014

Introduction

The SR40M and SR40M-SL are Outdoor/Indoor security sirens designed for use with the Paradox M system. The sirens deliver sound pressure levels of more than 103 dBA at 1 m, along with red and blue 15,000 mcd strobe lights. The siren and squawk volume can be adjusted for indoor use.

The SR40M-SL model is powered by a solar panel together with a rechargeable lithium battery. Under sunny conditions, the battery is fully charged within 10 days, providing up to 9 months of standby operation (Squawk off) or up to 240 minutes of alarm operation.

The SR40M model is powered by 2 x CR26500 lithium batteries, providing up to 10 years of standby operation (Squawk off) or up to 9 hours of alarm operation.

Wireless two-way communication and Gaussian Frequency Shift Keying (GFSK) technology with frequency and encryption hopping ensure secure and stable communication while maintaining reliable supervision with the system.

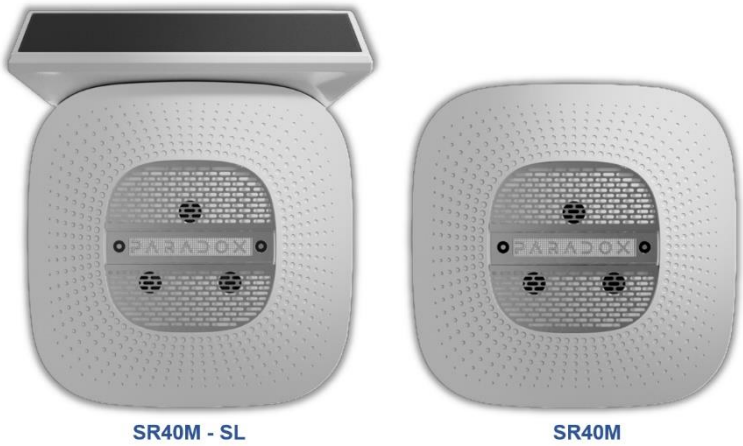


Fig-1

Quick Installation- Experienced Installers

NOTES:

- *Use a 2.0 mm hex (Allen) key to detach/attach the backplate (see FIG 2).*
- *Opening the wall tamper triggers an audible alarm if any partition is armed. When all partitions are disarmed, the siren plays a low tone, generates a report to the central station, logs an event, and displays a notification in the message center.*

To install SR40M/SR40M-SL (In sun exposed location):

1. Detach the metal backplate from the siren using a 2.0 mm hex (Allen) key (see *FIG 2*). Fix the backplate to the wall.
2. If used, connect an external power input (11-13 V DC, 1A) to the siren.
3. Power up the siren by pressing the **Learn** button once using a pin. A welcome tune plays on power-up. For details, see the ***Physical Mounting*** section in this manual.
4. Pair SR40M/SR40M-SL with the console (Using the BlueEye application):
   - Go to: **Hardware** > Tap **Add Devices** > **Wireless Devices Auto learn/Scan QR code or add devices manually** (by entering serial number). Press the **Learn** button for instant pairing. After pairing, a connection confirmation tune will be played.
5. Configure SR40M/SR40M-SL (Using the BlueEye application):
   - Go to: **Hardware** > Tap **SR40M/SR40M-SL** from the device list > Enter the necessary details > **Save**.
6. Install the siren on the backplate and secure the locking screw.
   IMPORTANT: Use a 2.0 mm hex (Allen) key to secure the locking screw at the bottom of the siren.

When the system is armed, the strobe LEDs flash red every 5 minutes if the rechargeable battery is over 50% (SL version), or when external power is connected. You can also adjust the squawk volume and alarm volume from the BlueEye application.

For details on LED sequences, see the **LED Indications section in this manual.**

NOTE: *The low battery voltage threshold of the SR40M is 4.2 V, and the battery is considered restored at 5.4 V (on power-up only).*

Components of SR40M/SR40M-SL Model

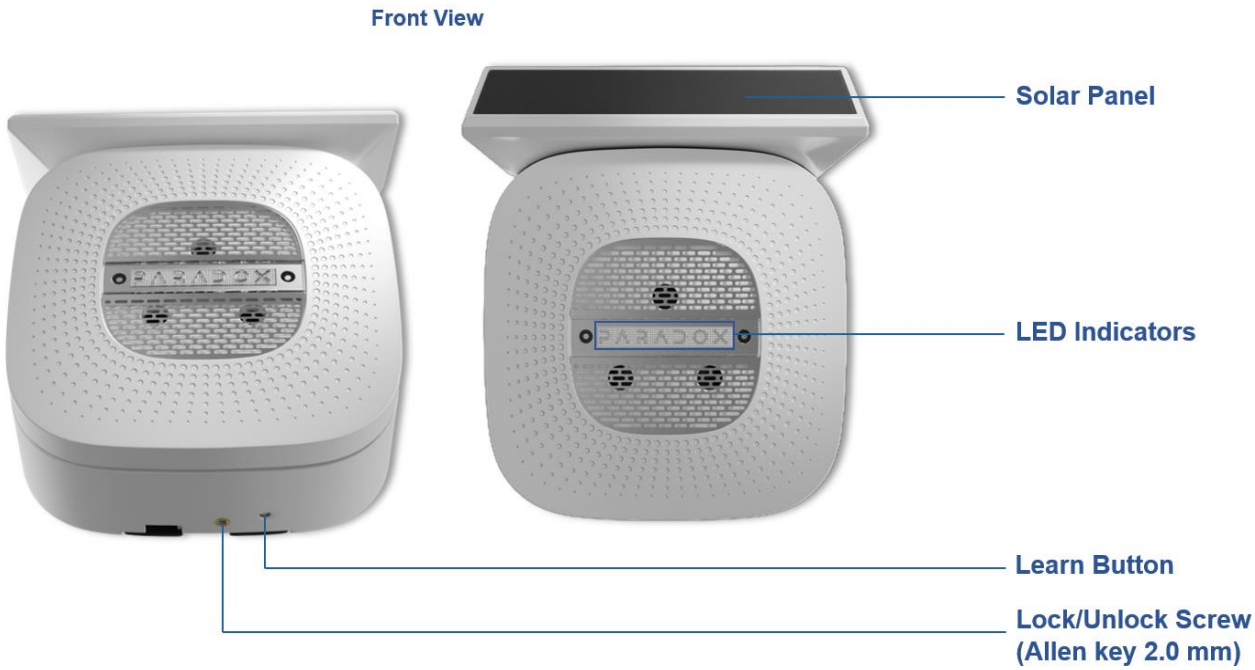


Fig-2

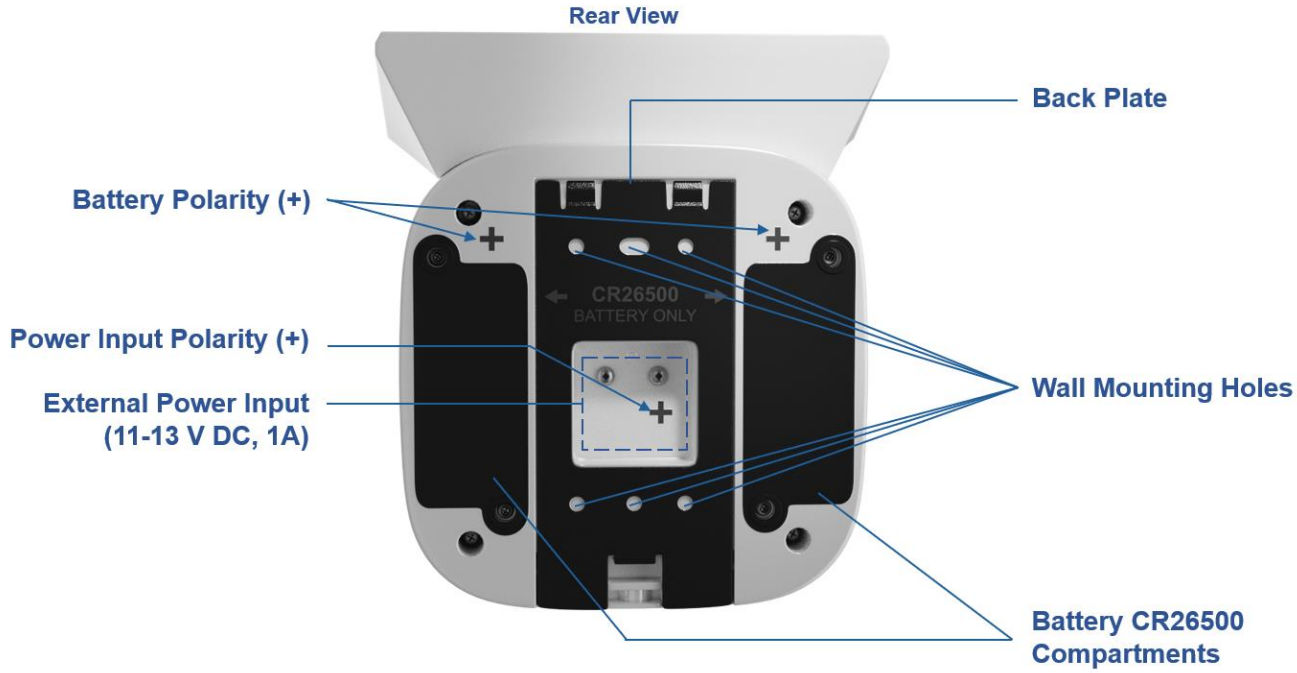


Fig-3

Physical Mounting

IMPORTANT: Install the SR40M-SL model in a location exposed to direct sunlight for battery charging**.**

Note: *Solar charging time depends on available sunlight. Charging the battery from 20% to 100% may require approximately 10 days under good, sunny conditions. During winter, available solar energy may be significantly reduced; therefore, additional days of sunlight may be required to fully charge the battery.*

To mount SR40M/SR40M-SL:

1. Detach the metal backplate from the siren using a 2.0 mm hex (Allen) key and mount the backplate on the wall using the mounting holes.
2. Optionally connect an external power supply (11-13 V DC, 1A) to the input terminals at the back of the siren.
3. Activate the siren by pressing the **Learn** button once (use a pin or small Phillips screwdriver). The LED flashes red with each button press.
4. Install the siren on the backplate and secure the locking screw at the bottom of the siren using a 2.0 mm Allen key.

Power-up Sequence

Press the **Learn** button once using a pin to power up the siren. During power-up, the LED flashes five times red if the siren is not paired to the console, or five times green if it is already paired. A welcome tune also plays during this sequence.
Connecting/pairing with the console may take up to 10 seconds. When the connection is successfully established, a connection confirmation tune will be played. This tune plays only after the first connection following power-up.

Pairing SR40M/SR40M-SL with the Wireless Console

The pairing and configuration settings of the siren are managed through the BlueEye application.

Prerequisites

Ensure that:

1. The siren is within the range of the console.

2. The BlueEye application is installed on your mobile and connected to the site.
3. The M console is powered on (Paradox logo color - white or green).

Pairing SR40M/SR40M-SL

To pair the siren with the wireless console by an installer:

1. In BlueEye, when in the **Hardware** tab, tap **Add Devices**, and then tap **Wireless Devices Auto learn**. The wireless console searches for new devices and a rotating radar icon is displayed.
   All unpaired devices are automatically paired within 6 minutes and appear at the top of the device list with a ***new*** tag and voice announcements.

   For immediate pairing, press the **Learn** button on the device. After successful pairing, the device plays a confirmation ringtone.

Pairing Previously Used Devices

You can pair used devices under the following conditions:

- **When the previously used device is not online with another wireless console:** Start auto-learn. Press the **Learn** button for immediate pairing, or wait up to 6 minutes for automatic pairing.

- **When the previously used device is online with another wireless console:** Reset the device and start auto-learn. For details about reset, see the **Resetting** section in this manual.
  NOTE: *Ensure the device is not connected or paired with the previous console before resetting the device.*

Configuring SR40M/SR40M-SL

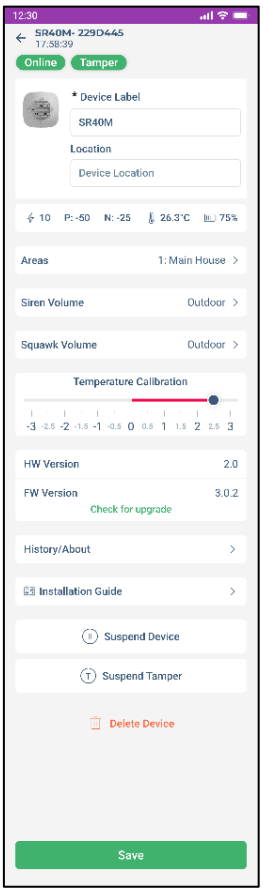
To configure the siren settings:

1. When in the **Hardware** tab, tap **SR40M/SR40M-SL** from the device list if the device is already paired.
2. On the page that opens, enter the necessary details for the parameters and then tap **Save**.
   For details about each parameter displayed on the page, see Table 1.

The following table lists the parameters displayed for configuring the SR40M/SR40M-SL, along with their descriptions.

Table 1

Parameter	Description
Assign areas	Specify the area where the siren will be mounted and assigned for operations.
Siren Volume	Select one of the following: • Outdoor • Indoor • Low
Squawk Volume	Select one of the following: • Outdoor • High • Indoor • Low
Temperature Calibration	Allows manual calibration of the device's reported temperature to match the actual ambient temperature.
About	This tab displays details such as the installation date, production date, last programming date, battery replacements, battery history, and upgrade history.
Suspend Device	Disables monitoring of the device in the system.
Reset to Default	This will reset the device to the factory default settings. **NOTE**: *Only an installer can reset the device.*
Delete Device	This option deletes the device from the system completely. After deletion, the system generates a push notification only if the owner registration is complete, not during installation. **NOTE**: *Only an installer can delete the device.*



LED Indications

Refer to ***Fig-2***.

Table 2

LED Indication	Event
Red Flashing 5 times	Power up sequence unpaired
Green flashing 5 times	Power up sequence paired
Red /Green blinking alternately (5 times)	Tamper Open
Green blinking (5 times)	Tamper Closed
Green flashing (5 times)	Pairing successful (online)
Yellow flashing every second for one minute after power-up	Device offline (loss of communication)
Purple > Red flashing five times	Reset to Default
Alternate Red and Blue (Piezo always sounding)	Alarm / Fire Alarm
Red Flashing Once	Bell Squawk Arming
Red-Blue-Red Once	Bell Squawk Disarming
Strobe light flashing red every 5 minutes	Armed, only when power connected or solar rechargeable battery over 50%.

Resetting

IMPORTANT: The reset procedure for this product differs from other M products.

To reset the siren to its factory default settings,

1. Remove the hex socket locking screw at the bottom using a 2.0 mm hex (Allen) key and then remove the backplate.
2. Perform five quick presses of the **Learn** button.
   The LED flashes purple for 3 seconds.
3. Press the **Learn** button once again within these 3 seconds.
   The reset is indicated by the LED flashing red five times. The LED then flashes yellow until the siren is paired with a panel.

NOTE: *If the device is already paired and online, delete the device first, then perform the reset on the device, and pair it again. Otherwise, the reset will have no effect.*

Rebooting

Press and hold the **Learn** button for 6 to 10 seconds to reboot the siren. The LED flashes red, followed by a welcome tune.

After rebooting, the LED flashes yellow until the siren is paired with a panel. After pairing with the panel, it plays a connection confirmation tune.

Upgrading Firmware

To upgrade the firmware:

1. In the **Hardware** tab, tap on the device > **Check for Upgrade**.
2. If an upgrade is available, tap **Upgrade** when prompted.
   The process may take a few minutes. Keep track of the progress in the BlueEye application to ensure that the upgrade is completed successfully. Both the Installers and owners can perform the upgrade.

IMPORTANT: The firmware upgrade can be done only when the system is disarmed.

Signal Strength and Transmit Power Monitoring

The BlueEye application provides insights into each device's received signal strength and transmission power to optimize performance.

To view the RSSI and transmit power range:

1. When in the **Hardware** tab, tap the ⓘ icon next to the **Wireless** tab.
   A pop-up window with the RSSI and transmit power range is displayed.
2. Maximum power transmitted by SR40M/SR40M-SL:
   - 868 MHz: +14 dBm
   - 914 MHz: +22 dBm



Tap on any listed device to view signal strength and additional device metrics. The following parameters are displayed for each device:



- **P** - Received signal strength at the panel
- **N** - Received signal strength at the device
-  - Transmit power of the device.
-  - Current temperature reading of the device.
-  - Battery level of the device

A higher P and N value indicates stronger and clearer communication between the console and the device.

- If **P** is low, the console struggles to receive signals from the device.
- If **N** is low, the device struggles to receive signals from the console.

NOTE: *Values below -93 with maximum Tx power are not recommended values, and RPT5M can be used to extend the range.*

Power transmission impacts only **P**:

- When **power transmission** increases, the **P** value at the console generally improves, as a stronger signal is sent.

- If **P** value is good, the device can reduce its transmission power to save battery life.

IMPORTANT: All nodes adjust their transmission power to save battery life. The adjustment depends on the surrounding noise level and is updated at intervals set by the supervision timer or during a node status update.

Alarm Signaling

When the system is armed, and an alarm condition is triggered (such as intrusion or tamper), the siren activates and flashes red and blue strobe lights.

Wall Tamper Protection

The SR40M/SR40M-SL is equipped with wall tamper protection. Removal of the siren from the wall when none of the partitions are armed generates a low tone, reports to the central station, generates a push notification, and displays a tamper trouble in the BlueEye application and keypads. If any partition is armed, an alarm siren and strobe are activated in addition to the tamper notification.

Technical Specifications

The following table lists the technical specifications of SR40M/SR40M-SL along with their descriptions.
NOTE: *The specifications are subject to change without prior notice.*

Table 3

Specification	Description
External Power Input	11-13 V DC, 1A
Audible	Piezo, 103+ dBA @1 meter, Volume adjusted for Squawk and Indoor use
Visual	15,000 mcd Blue/Red strobe lights
Wireless Type	GFSK two-way with frequency and encryption hopping
Battery	• SR40M-SL – Rechargeable lithium • SR40M – 2 x CR26500 non-rechargeable batteries
Battery Life	• SR40M-SL – Full charge within 10 days of sunlight, standby 9 months (Squawk off) or up to 240 minutes of alarm. • SR40M – 10 years standby (Squawk off) or 9 hours of alarm.
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz May vary by region
RF Power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Status Transmitted	Battery, charging (SR40M-SL), temperature, TX/RX values
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (default), and 3 minutes
Activation Time	Within 2 seconds
Installation Environment	Outdoor/Indoor
Firmware Upgrade	Remotely over the air, via BlueEye
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
IP Rating	IP54
Auto Learn	Yes
Colors	White, Grey. Speaker grille options: Red, Purple, Gold, Silver
Dimensions	SR40MSL: 125L x 147H x 42D mm, SR40M: 125L x 125 x 42D mm
Weight	SR40M-SL – 0.64 Kg SR40M – 0.49 Kg
Certification	CE, FCC 15.247 AU, EN, ETL

FCC Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

WARNING – RF EXPOSURE COMPLIANCE: This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC ID: KDYSR40M
IC: 2438A-SR40M

- This Class B digital apparatus complies with Canadian ICES-003.
- -Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC Statements

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

AVERTISSEMENT – CONFORMITÉ AUX NORMES D'EXPOSITION AUX RF: Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Warranty

For complete warranty information on this product, see the Limited Warranty Statement document, or contact your local Paradox distributor.

Patents

US, Canadian, and international patents may apply. Paradox is a trademark or registered trademark of Paradox Security Systems (Bahamas) Ltd.

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