

SmartLok Repeater

User's Manual



Model # SL-RP-1

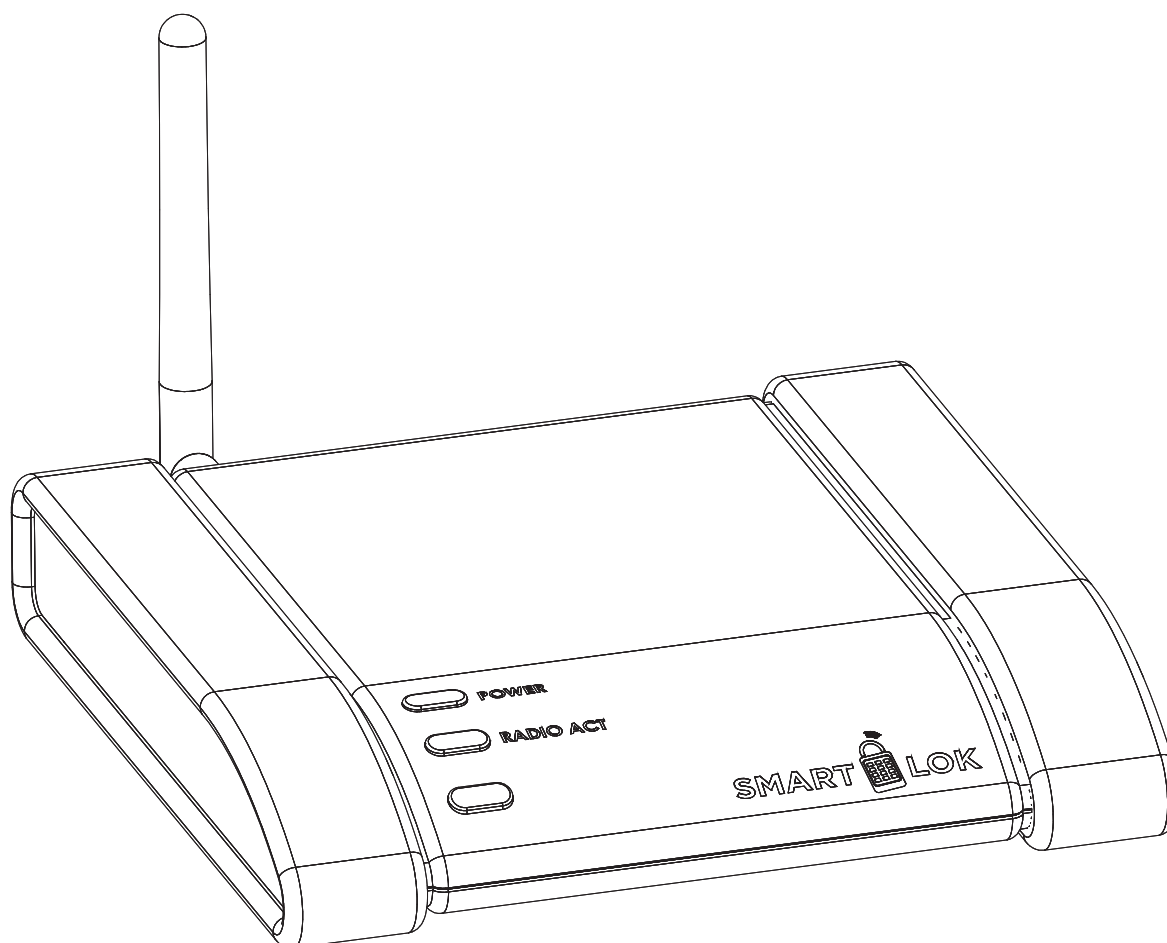
SmartLok Repeater(SL-RP-1)

The SmartLok Repeater is an externally powered device that contains a 2.4GHz 802.15.4 compliant radio that acts as the Zigbeerrouter in the SmartLok network. In short, it relays wireless messages from locks or other repeaters towards the Gateway.

The SmartLok Repeater communicates over the air with the SmartLokwireless network. The Repeaterroutes data packets and lets other devices join the network. It contains a form C relay in which an external alarm can be plugged in to sound off during alarm conditions.

Specifications

- 12V Power Supply
- Operational Temperature: -20°C to 35°C
- Frequency: 2405-2480MHz



SmartLokRepeater Installation

1. Power

To power the Repeater on, simply plug the provided external power supply into an AC outlet, and plug the barrel connector into the Repeater's power port. To power the Repeater off, simply remove the barrel connector.

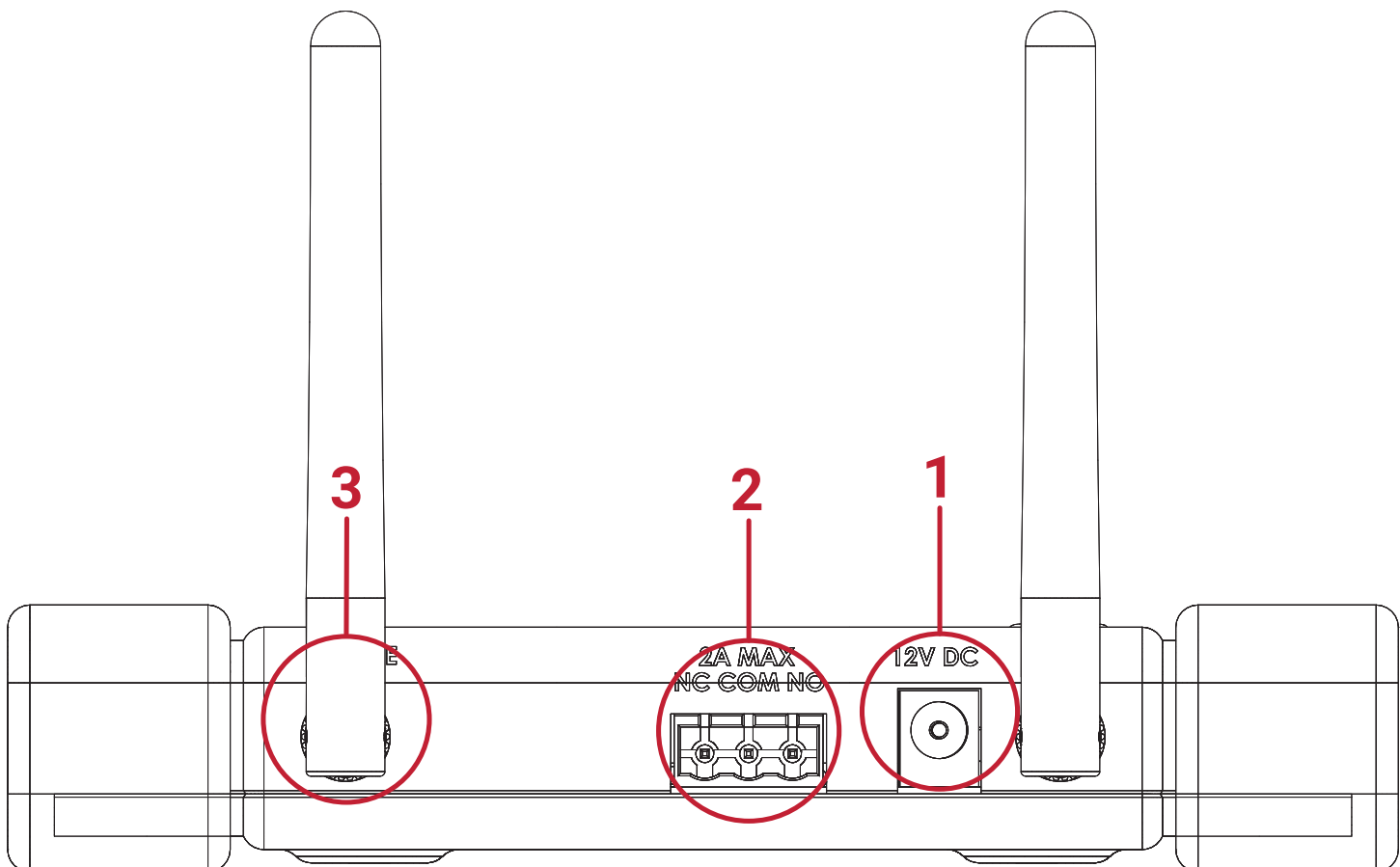
2. Alarm Relay

A form C relay capable of 24VDC and 2A is provided to drive an external alarm (light, siren, etc.). A removable terminal block plug is provided for easy installation. Simply strip the ends of the wires, insert them into either the Normally Open (NO) or Normally Closed (NC) and Common ports, and tighten the screws. When done, insert the terminal block into the mating connector on the Repeater.

3. Remote Antenna

In most installations, the local antenna is the only antenna required. A 50-ohm termination is installed by the factory on the remote antenna port.

In installations where the network needs to communicate across an RF barrier, such as a metal or concrete wall, the remote antenna port can be utilized. Acquire a remote antenna accessory kit from the manufacturer and use the instructions provided with the kit to install it.



SmartLok Repeater Mounting

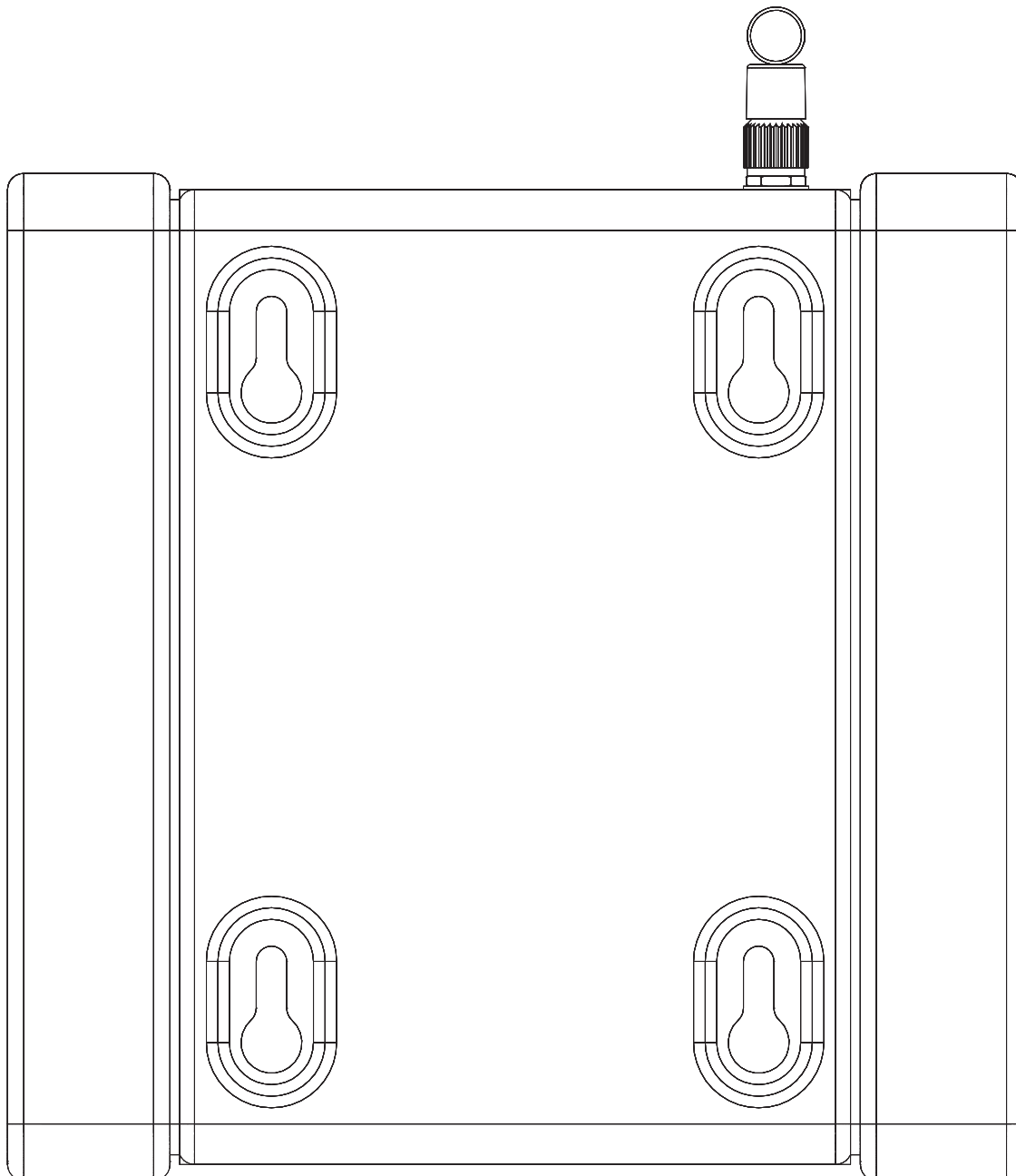
There are two recommended methods to mount the Repeater:

Table Top

One approved method to mount the Repeater is to simply place it on a table top. Its rubberized tracks will keep it from sliding around on most surfaces. Adjust the local antenna with a 90 degree bend so that it points vertically.

Wall Mount

Another method to mount the Repeater is to place it on a wall. Use the template that is provided with the Repeater for drill hole locations. There are four key hole slots in the base of the unit that allow it to slide over the four screw heads. Once the Repeater is in its final position, adjust the local antenna so that it is straight and pointing vertically.



SmartLok Repeater Operation

- 1. Login to the SmartLok Management Console
- 2. Navigate to the “Gateways” page.

STATUS	CONNECTIONS	GATEWAYS	USERS	LOCKS	USERS
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- 3. To add a SmartLok Repeater, there must first be a SmartLok Gateway connected to the network.
- 4. In the table, click the white boxes and enter the SmartLok Repeater’s Name, Address, and select the SmartLok Gateway it will connect to in the Upstream Gateway field. Click the plus sign.

STATUS	CONNECTIONS	GATEWAYS	USERS	LOCKS	USERS
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ID ^	Name	Address	RS485 Connection <small>(gateways only)</small>	Upstream Connection <small>(repeaters only)</small>	Actions
(new)	New repeater name	1234567890123456	(none)	Choose Gateway ▾	+
1	Gateway 1	1E025R753126F231	1	[Connected via RS485]	✕
2	Gateway 2	2G235454E295895F	2	[Connected via RS485]	✕

- 5. To remove a Repeater, click the X symbol to the right of the Repeater you want to remove. The system will ask you for a confirmation.
- 6. To change a Repeater’s details, click one of the fields that has the pencil icon next to it. The field is now editable. To accept the changes, hit Enter or click the check icon next to the field. To cancel the changes, hit Escape or click the X icon next to the field.

STATUS	CONNECTIONS	GATEWAYS	USERS	LOCKS	USERS
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ID ^	Name	Address	RS485 Connection <small>(gateways only)</small>	Upstream Connection <small>(repeaters only)</small>	Actions
(new)			(none)	▾	+
1	Gateway 1	1E025R753126F231	1	[Connected via RS485]	✕
2	Gateway 2	2G235454E295895F	2	[Connected via RS485]	✕

FCC Statement:

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.

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:

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

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC statement:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with Canada radiation exposure limits set forth for uncontrolled environments.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Déclaration d'IC sur l'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux radiations définies par le Canada pour des environnements non contrôlés. Cet utilisateur ne doit pas être installé au même endroit ni utilisé avec une autre antenne ou un autre émetteur.

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