SmartLok Gateway

User's Manual

SMART LOK

Model # SL-GW-1

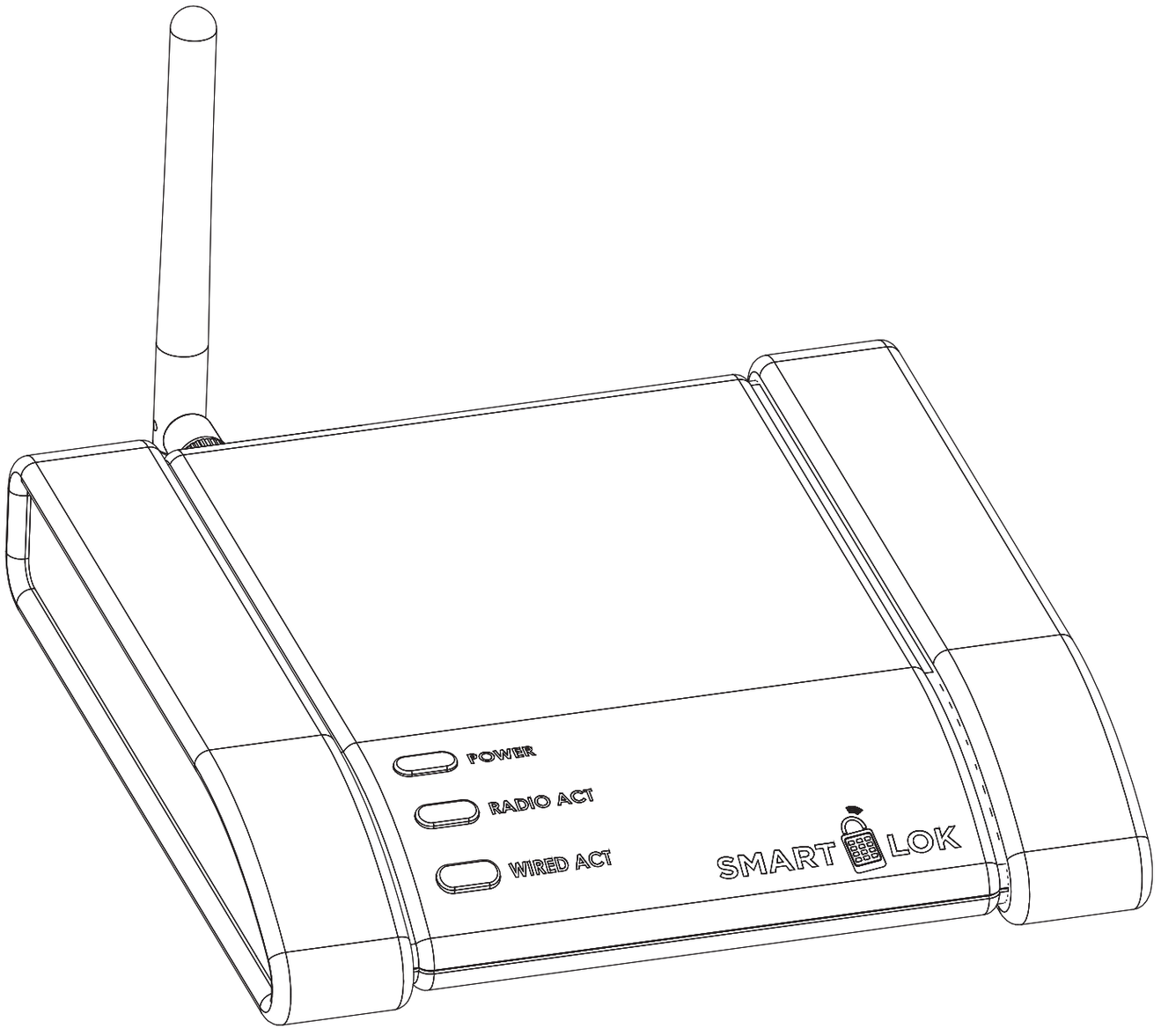
SmartLok Gateway(SL-GW-1)

The Smar tLok Gateway is an externally powered de vice that contains a 2.4GHz 802.15.4 compliant r adio that acts as the Zigbee coordinat or in the Smar tLok network. In shor t, it bridges the wireless network t o the Smar tLok software.

The Smar tLok Gateway communicates with the Smar tLok software o ver a wired RS-485 serial inter face. The Gateway receives and st ores the list of de vices that are allowed on its network, and manages the messages t o and fr om the wireless network. It contains a form C relay in which an external alarm can be plugged in t o sound off during aler t conditions.

Specifications

- 12V P ower Supply
- Operational Temper ature: -20°C t o 35°C
- Frequency: 2405-2480**MHz**



SmartLok Gateway Installation

1. **Power**

   To power the Gateway on, simply plug the pr ovided external power supply int o an AC outlet, and plug the barrel connect or into the Gateway' s power por t. To power the Gateway off, simply remo ve the barrel connect or.

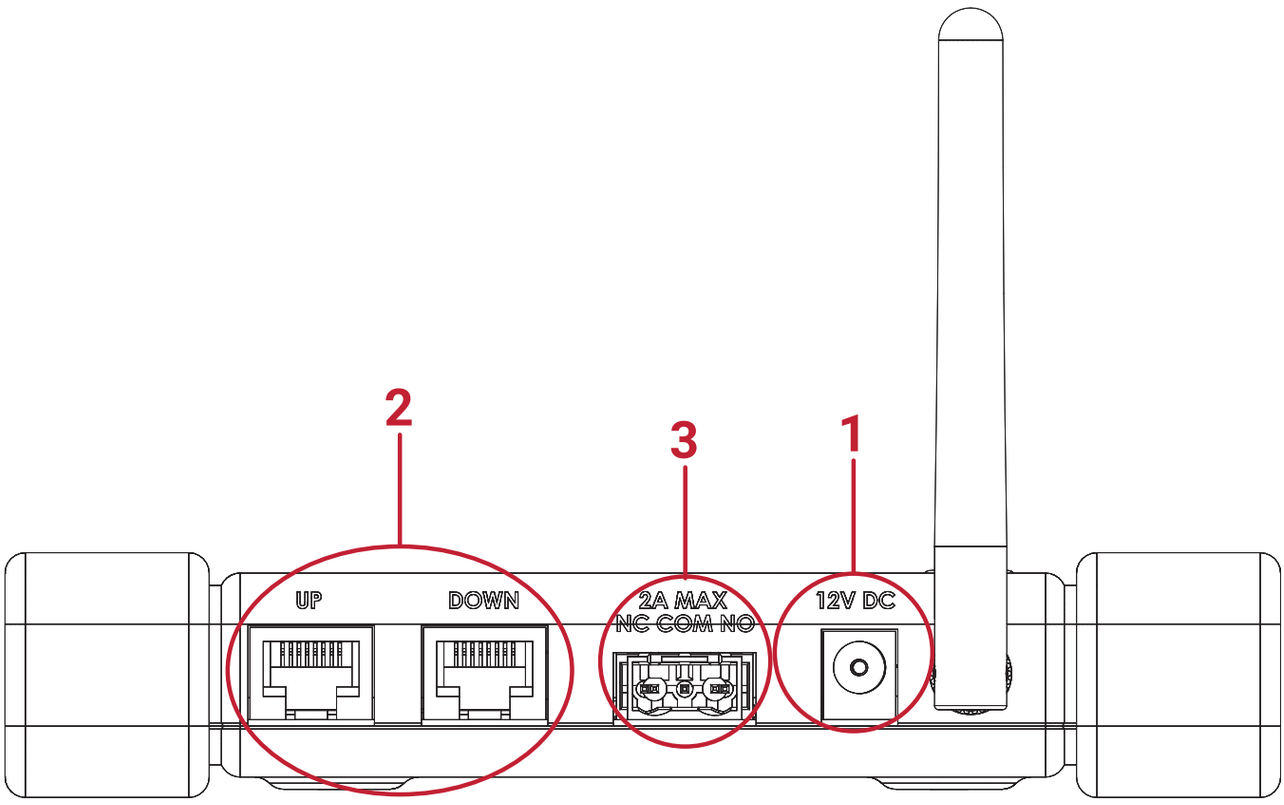
2. **Serial Communications**

   The Smar tLok Gateway communicates with the Smar tLok Software o ver a wired RS-485 link. A standard CA T5 ethernet cable is required for this connection. Simply plug one end of the CA T5 cable int o the USB adapter in the Raspberry Pi, and the other end int o the Gateway' s Upstream por t.

   When multiple Gateways are required in a system, another CA T5 cable is required. Simply plug one end of the cable int o the first Gateway s Downstream por t, and the other end int o the second Gateway' s Upstream por t. Additional Gateways can be added in this manner . Just remember , the Upstream por t of any Gateway should lead t owards the Raspberry Pi, and the Downstream por t of any Gateway should lead t o the last Gateway in the chain. RS-485 communications require a termination at the end of the link, and the Gateways use this concept t o aut omatically sense the last one in the chain, and configures itself accordingly

3. **Alarm Relay**

   A form C relay capable of 24VDC and 2A is pr ovided t o drive an external alarm (light, siren, etc.). A remo vable terminal block plug is pr ovided for easy installation. Simply strip the ends of the wires, inser t them int o either the Normally Open (NO) or Normally Closed (NC) and Common por ts, and tighten the screws. When done, inser t the terminal block int o the mating connect or on the Gateway.



SmartLok Gateway Mounting

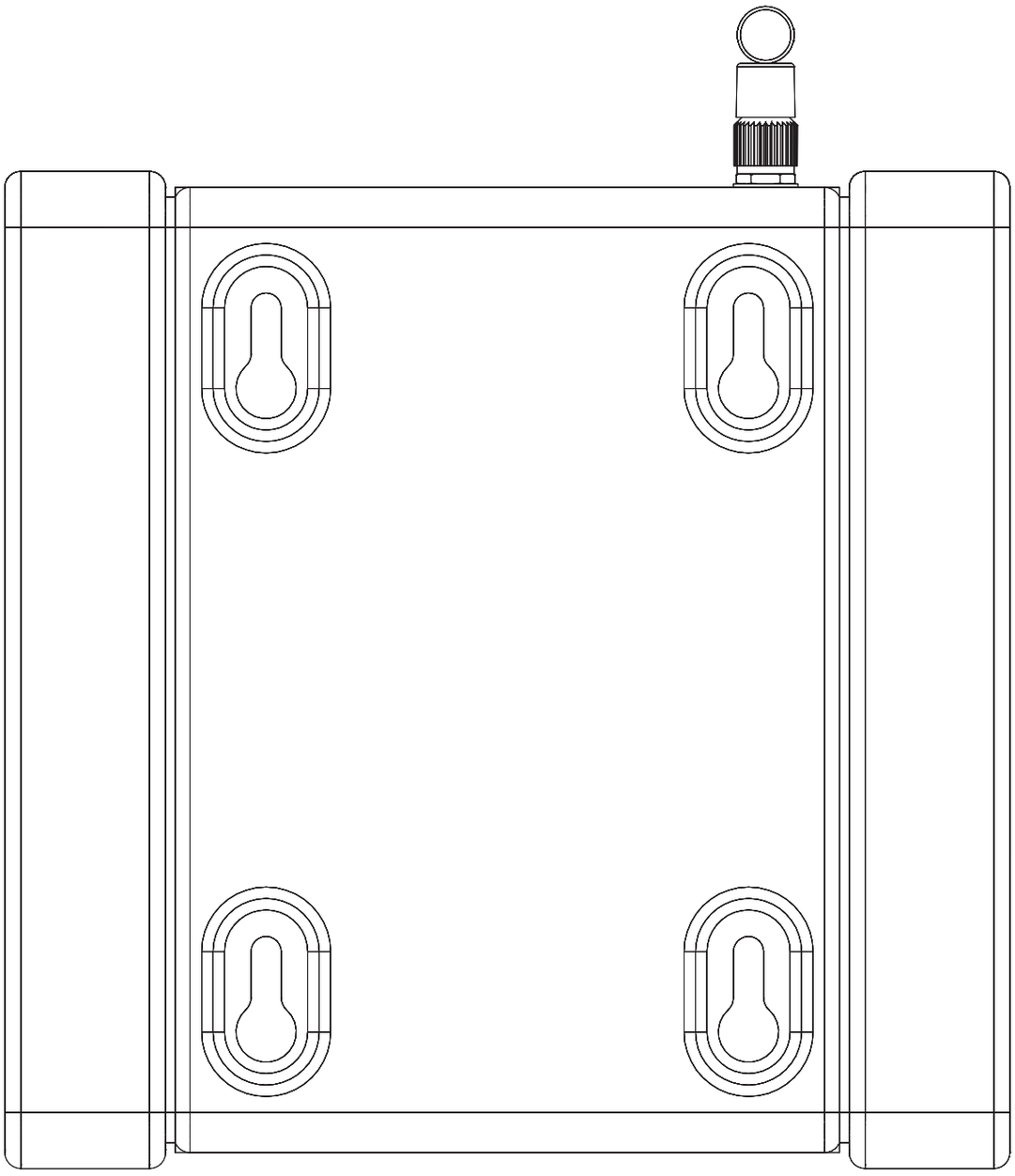
There are two recommended methods to mount the Gateway:

Table Top

One appr oved method t o mount the Gateway is to simply place it on a table t op. Its rubberized tracks will keep it fr om sliding ar ound on most sur faces. Adjust the antenna with a 90 degree bend so that it points ver tically.

Wall Mount

Another method t o mount the Gateway is t o place it on a wall. Use the template that is pr ovided with the Gateway for drill hole locations. There are four key hole slots in the base of the unit that allow it t o slide o ver the four screw heads. Once the Gateway is in its final position, adjust the antenna so that it is str aight and pointing ver tically.



SmartLok Gateway Operation

1. Connect the Smar tLok Gateway t o the Raspberry Pi via the RS485 adapter .
2. Login t o the Smar tLok Management Console
3. Navigate t o the “Gateways” page.

STATUS	CONNECTIONS	GATEWAYS	USERS	LOCKS

4. In the table, click the white bo xes and enter the Smar tLok Gateway’ s Name, Address, and Connection ID then click the plus sign.

STATUS	CONNECTIONS	GATEWAYS	USERS	LOCKS

ID ▲	Name	Address	Connection ID	Actions
(new)	New gateway name	1234567890123456	First port on USB	⊕
1	Gateway 1	1E025R753126F231	1	✖
2	Gateway 2	2G235454E295895F	2	✖

5. To remo ve a Gateway, click the X symbol t o the right of the Gateway you want t o remo ve. The system will ask you for a confirmation

STATUS	CONNECTIONS	GATEWAYS	USERS	LOCKS

ID ▲	Name	Address	Connection ID	Actions
(new)	New gateway name	1234567890123456	First port on USB	⊕
1	Gateway 1 ✔ ✖	1E025R753126F231	1	✖
2	Gateway 2	2G235454E295895F	2	✖

6. To change a Gateway’ s details, click one of the fields that has the pencil icon next o it. The field s now editable. To accept the changes, hit Enter or click the check icon next t o the field. To cancel the changes, hit Escape or click the X icon next t o the field

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

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.

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.
D é claration d' IC sur l' exposition aux radiations:
Cet é quipement est conforme aux limites d' exposition aux radiations d é finies par le Canada pour des environnements non contrôl é s. Cet é metteur ne doit pas ê tre install é au m ê me endroit ni utilis é avec une autre antenne ou un autre é metteur.

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