T5 tek

SLS-200

SmartLock for Trailer Swing Doors

Bluetooth 5.2 & NFC Enabled

The SLS-200 is an intelligent Locking system designed to protect trailers from Theft. It locks the trailer door, detects if it is locked/unlocked, if the handle is in place, and communicates in real time through a gateway with the clouds. The SLS-200 is battery operated and can be unlocked from the cloud or from an App using Bluetooth® or NFC®. Designed to meet extreme weather conditions.

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Cellular Connectivity

The SLS-200 communicates with the cloud through a gateway installed on the trailer.

Bluetooth® 5.2 Connectivity

Bluetooth is used to communicate with the gateway and with an App through advertisement and connection profiles.

Secure Motorized Lock

A secure mechanism unlocks the lock from the cloud or from an App. The pin is released but stays captive. The driver is not required to carry a padlock or a key, only an App on a smart phone.

NFC Unlocking

The SLS-200 can be unlocked from an App through NFC.

Ultra-Rugged Design

The shell and the pin are rugged 7075 Aluminum. The electronic and antenna enclosure is plastic and protected from impact by the Aluminum shell.

Adaptative Power Management

Efficient Power Management through advanced algorithms controlling the power source of each electronic section minimizing power consumption.

Extreme Battery Life

The LTC battery supports extreme temperature operating conditions from -40 to 85°C making it ideal for the shipping and transportation industry.

Connectivity

Cellular Connectivity	The SLS-200 communicates with the cloud in real time through a gateway installed anywhere on the trailer.
Bluetooth ®	Allows the SLS-200 to communicate to a gateway or an App through a defined communication structure through advertisement and connection profiles. The transmission power is programmable from -2dBm to +8dBm which provides excellent Bluetooth coverage.
NFC ®	NFC® Connectivity ensures secure unlocking of the SLS-200. The process is driven by secure keys transmitted over the cloud or generated in a secure iOS/Android app.
OTA DFU	Secure Over The Air Device Firmware Upgrade with private key enabling the automatic upgrade of the firmware through the central Bluetooth Gateway ® or through a companion iOS/Android App.

Secure Unlocking / Locking

Security	End to end encryption
Mechanism	The cloud software working in tandem with the App provides several use cases that allow the user to manage soft keys that unlock the lock
Detections	Several embedded sensors detect the locking, unlocking, presence or absence of the handle, device tampering, and other critical functions.

Battery & Power Management

Lifetime	3 - 5 years depending on the number of locking/unlocking cycles and the GPS & Cellular refresh rates.
User Replaceable Batteries	Batteries are replaced in the field by the user without affecting the IP67 rating.
Supported Battery Types	eBAT-01 Lithium Thionyl Chloride (LTC) 3.6V, 19,000mAh * Please dispose of Lithium batteries in a safe and responsible manner.

	* Please use genuine batteries.
Emergency Supply	External 5V USB Supply through the provided IP67 cable with self-attachable pogo pin system smart magnetic connector.
Safety	Reverse Polarity Protection and Fuse Protection
Efficient Power Management	Efficient Power Management through advanced algorithms enabling very low current consumption.

Sensing Features

Unlocked
Locked
Pin Inserted
Handle in place
Tampering
Unit Open/Close

Mechanical / Design

Dimensions	92 x 52.4 x 161 mm (3.62 x 2.06 x 6.34")
Weight	800 g
Housing	High-Quality Aluminum frame with an enclosed plastic case to house the electronics and antennas.
IP Rating	IP67 rated housing for both locking mechanism and the electronic enclosure ensures device can withstand fine dust, high pressure spray, submersion for 30 mins in 1 m of water.
Operating Temperature	-40°C to + 85°C (-40°F to +185°F)
Cellular Antenna	Internal
GPS Antenna	Internal
Bluetooth ® Antenna	Internal
NFC ® Antenna	Internal
3 Axis Temperature	3 Axis Accelerometer to detect movement, vibration and high G forces and events.
Electronic Temperature Sensor	Embedded. The device reports internal temperature which provides an indication of the operating conditions of the SLS-200.
Power Gauging	Internal power gauging included to estimate the consumed capacity from the battery and to estimate the remaining battery lifetime.

Internal Connections & Maintenance	Smart Pogo Pins
Shipping Mode	Shipping Mode is automatically enabled in the factory and ends once the locking pin is inserted for the first time.

Installation

Lock the SLS-200	The SLS-200 is bolted to the trailer door in place of the HASP. Simply undo the nuts holding the HASP and install the SLS-200 using the same holes. No drilling is needed.
Unlock the SLS-200	Link the SLS-200 to the App, locate the unlock tab in the App and unlock the SLS-200 using Bluetooth or NFC. the SLS-200 can also be unlocked from the cloud through the gateway.

Warranty

Manufacturer's Warranty	Two Year Manufacturing Warranty

Device Management

Flexible Configuration	The cloud software works in tandem with an App to provide flexible tools to users in the control room and in the field. These tools create & manage user accounts, control user access, set permissions to unlock devices, see a summary list of users and their current permissions, view detailed activity log for a user, view detailed list of locks they can access, view a list of all pending requests for locks they have access to, and many other functions.
Device Management Platform	Management of SmartLock devices is conducted via a web-based cloud software application. Customers can use these tools to pair locks with vehicles or other assets and then create and manage permissions for locking and unlocking the devices
Configuration Apps	iOS and Android App pairs to the lock to read status, requests permission from the cloud to unlock, manage soft keys, and unlock the unit,

Certifications

General	UL / CE
Radio	FCC (PTCRB)
Bluetooth®	QDID
LTE Carrier	Version, AT&T, T-Mobile & Sprint
RoHS	

Companion Apps

eKey	
eKonfig	
eLink	

T5 TEK Products are patented:
Three issued:
  10,276,061
  10,713,613
  11,551,498
A fourth patent is pending.

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