360ns
network solutions

Intelligent Cabinet Lock

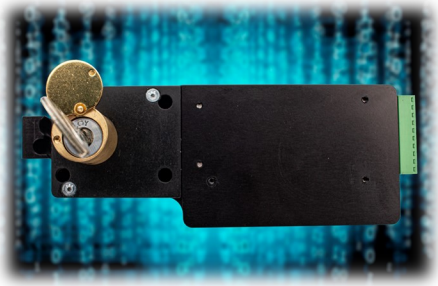
In today's connected world, ***Intelligent Transportation Systems (ITS) cabinets*** can be found at virtually every intersection and are vulnerable to an entire gamut of risk from seemingly harmless vandalism to more malicious physical and cyber-attacks.

With hundreds of thousands of traffic cabinets throughout the country and the potential safety risk of an attack, properly securing these cabinets is an absolute must. Unauthorized entry into a traffic cabinet not only provides access to control connected intersections but could also allow access to the entire network of traffic controllers, camera, network devices and servers.

This economic alternative to the traditional #2 key is the new smart intelligent cabinet lock. This solution gives agencies the peace of mind, sophisticated technology, reliability and practical online real-time status of cabinet and lock. Features such as remote unlock, mechanical or smart key override, BLE Bluetooth, WiFi and ethernet connectivity allows for this intelligent lock system to be used anywhere there is a traffic cabinet whether connected or not connected to an fiber or cellular network.

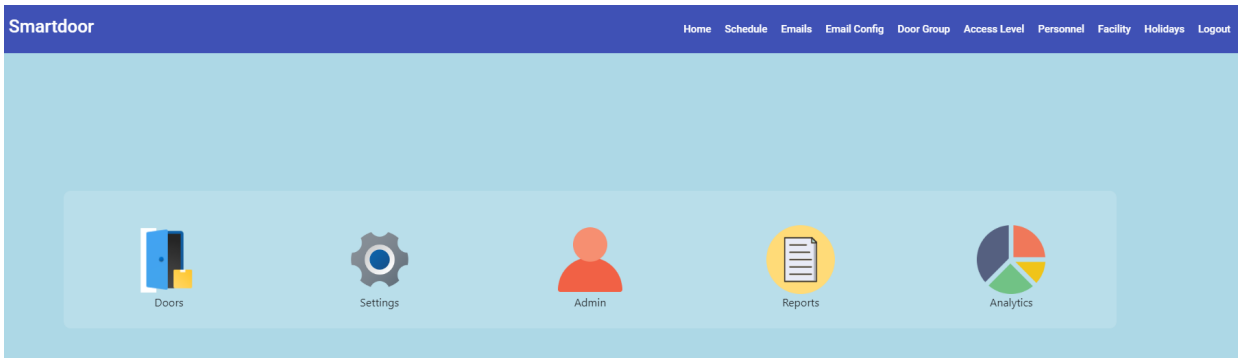
System Features:

- User friendly and easy to install
- Ability to perform remote unlock
- Locally stores transaction and credentials
- Designed and manufactured in the **USA**
- Locally supports 5,000 to 2,000,000 users
- Efficient single piece compact design
- NEMA TS2 certified for harsh environments
- Easy to use access control software platform
- Built as one cast aluminum part for structural integrity
- Utilizes technology for quick plug and play installation
- Integrated network connectivity, Wi-Fi, Ethernet, and Bluetooth
- Built with a machined cased made from aircraft grade aluminum
- First integrated cost-effective smart access control cabinet Lock
- Designed to work with different mechanical or smart key locks
- Primary lock has door controller internal with up to four secondary lock as additional openings connected



Software Platform

The software platform manages all cabinet locks and openings. An easy user web interface allows for cabinet locks to be configured quickly and easily with an intuitive point and click operation. All attributes of the lock functionality and communications are performed through the web interface. Google maps integration is included. The SmartDoor software can be either cloud or on premise depending on agencies requirements.

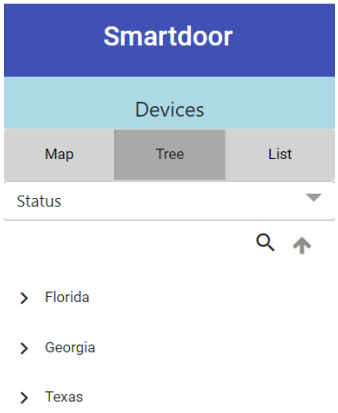


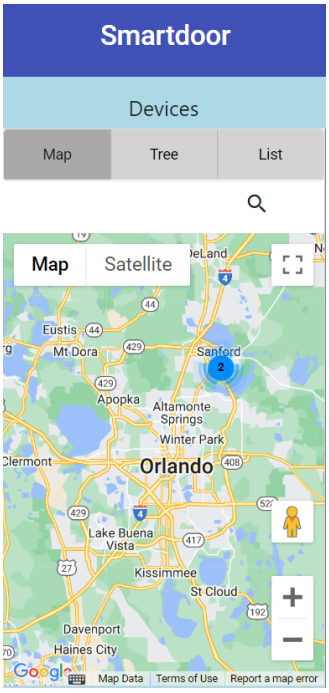
Software Features:

- Ease of use and setup with web interface
- Primary and Secondary locks improve efficiency and cost
- Door access controller built into primary lock
- Bluetooth compatible, Wi-Fi and ethernet
- Configure door open alarms and extended open
- Remote operation via network or Bluetooth connectivity
- Dual authentication using smart phone application
- Email alerts and alarms can be configured

CyberSecureITS—changing ITS security one cabinet at a time

With the development of connected and automated vehicle (CAV) technology, vehicles and infrastructure will be connected through wireless communications which might open a new door for cyber attackers. As a critical part of the transportation infrastructure, existing traffic control systems have a profound impact on the safety and efficiency of urban traffic flow, but are highly vulnerable to cyberattacks because of a systemic lack of security consciousness. Physical security is a key element to securing infrastructure and managing access to the ITS network infrastructure.



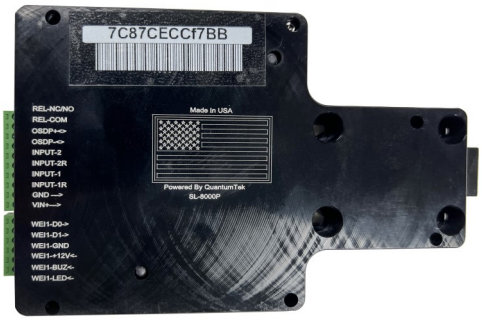


Transportation products must be reliable and robust so that they may endure the rigors of harsh roadside environments. The **SL8000** has been built to NEMA TS2 standards and is NEMA TS2-2016 certified for roadside use. Lock molds are cast aluminum, aircraft grade for strength and durability. The SL8000 has several patented innovative features that ensure lock performance and reliability.

Features:

Diagnostics:

- A) On Board annunciator audible alarm
- B) LED indicator



Power input:

- A) 9-30 VDC, polarity protected
- B) 7.2 watts consumption, idle @ 0.1 watt

Communications:

- A) Ethernet 10/100 RJ45
- B) Bluetooth, BLE 5.0
- C) WiFi, 2.4 GHz
- D) OSDP
- E) MQTT

NEMA TS2:

- A) NEMA TS2-2016 certified, AES Test Lab
- B) Conformal coating

Inputs:

- A) Two inputs can be programmed as bypass, Rex, Alarm or Tamper

Outputs:

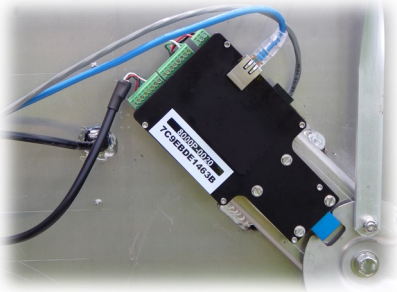
- A) Relay, normally open or close
- B) Wet Outputs, 12V @ 1amp
- C) Weigand Power, 12V @ 1 amp

Weigand Card Reader:

- A) Supports multiple access card credentials
- B) Works with many card readers such as FarPointe, HID and Schlage plus any that are Weigand compatible
- C) Power on, buzzer and LED

User Support:

- A) Can support up to 2,000,000 users
- B) Card credentials and/or Bluetooth connect
- C) Card reader per user specifications or generic



SPECIFICATIONS:

A) Storage	8Gb on-board SD card	
B) Serial Data Protocol	Weigand and OSDP	
C) Network	Ethernet, 10/100BaseT(IEEE802.3/802.3u)	
D) Bluetooth	BLE 5.0	
E) Wi-Fi	Wi-Fi 2.4 GHZ	
F) Protocols	TCP, OSDP and MQTT	
G) Programming & Diagnostics		
Modes:		
1- Physical	Wi-Fi or BlueTooth	
2- Remote	Web	
H) Card Reader	Supports Wiegand and OSDP readers	
I) Inputs	Two programmable inputs, bypass, Rex, Alarm and bypass	
J) Outputs		
	A. Relay, normally open/closed	
	B. Wet outputs, 12V @ 1amp	
	C. Weigand Power, 12V @ 1 amp	
K) Visual	LED notification, power, fault and alarm	
L) Audible	Distinct alarms per condition	
M) Electrical Voltage	9 to 30 Volts	
N) Power Consumption	< 7.2 watts consumption @ idle 0.1 watt	
O) Mechanical: HxWxD Dimensions	Primary	3.375” x 5.75” x 1.0”
	Secondary	2.25” x 5.75” x 1.0”
P) Weight	1.5 lbs.	
Q) Environmental & Regulatory:		
1- NEMA TS2 Shock, Vibration and Transients **(NEMA TS2-2016 certified)**		
2- Temperature	-36°C to +74°C (Operating)	
	-40°C to +74°C (Storage)	
3- Humidity	0 to 95% Non-condensing	
4- Conformal Coating		
R) MTBF	>100,000 hours	
S) FCC Title 47, Subpart B, Section 15, Class A UL, CE, ROHS		

CyberSecureITS

As Connected Infrastructure (IoT), Roadways (V2I/V2V), and Connected Autonomous Vehicles (CAV) have become a reality, cyber securing our infrastructure and protecting the safety of our citizens is critical, yet continues to be overlooked and undervalued.

#CyberSecureITS is a call to take action, bringing knowledge, awareness, and movement to secure our country's transportation infrastructure and citizens.

Physical	Model Number	Part Number
Primary	SL8000-P	7421-3130-0001
Secondary	SL8000-S	7421-3230-0001

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