



Nokē Smart Entry System Manual

NOKE SMART ENTRY SYSTEM

Overview

The Nokē Smart Entry System includes the Entry Point Controller, Unit Controller, thermal motion sensor, and SecurGuard electronic lock. The Nokē Smart Entry system allows tenants to access entry points and unlock their storage unit from their smartphone. The smartphone application uses an encrypted Bluetooth signal to send an unlock or open command to the controller. Through communication with the cloud via gateways used in the system, access is granted and revoked seamlessly through a storage facilities management software.

The Entry Point Controller can control gate motors, electronic strikes, magnetic locks, elevators, and automatic slide doors and is connected via a dry contact. When a tenant or facility employee uses the smartphone app to open an entry, the Entry Point Controller sends an electric pulse to the motor or locking mechanism to open or disengage. Bluetooth is used to send an encrypted signal from the smartphone. Proprietary mesh communication is used to send information bi-directionally to and from the cloud.

The Unit Controller can disengage the SecurGuard electronic lock affixed to the unit from the smartphone app. The SecurGuard electronic lock is mechanically locked and electronically unlocked. When a tenant disengages the lock from their smartphone, a short pulse is sent to the lock. Bluetooth is used to send an encrypted signal from the smartphone. Proprietary mesh communication is used to send information bi-directionally to and from the cloud.

Thermal motion sensors are affixed to each unit to detect thermal changes when a unit door is locked. Any events detected by the motion sensors are reported to the cloud through the mesh network and displayed in the activity log.

System hardware layout video: <https://janusintl.wistia.com/medias/90skeu58v0>

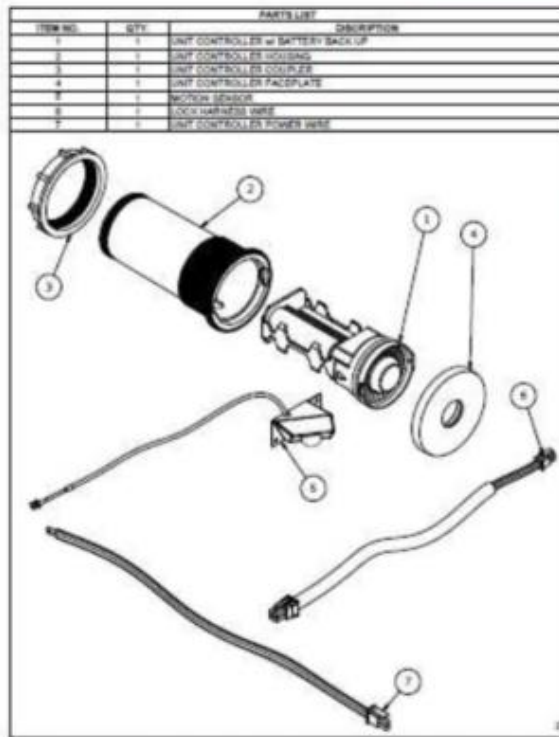
Specifications – Entry Point Controller (Nokē VOLT)

- Connectivity: 2.4Ghz Bluetooth and 2.4Ghz Proprietary mesh technology
- Power: 24V DC input: 25 mA operational current / Lock activation, 1.75 A – 0.01 sec to 25 sec
- Accessory Options: Relay board
- Enclosure: Surface Cone or Long cup

DOOR CONTROLLER FEATURES		ON-WALL HARD-WIRED
		A cylindrical, metallic, on-wall hard-wired entry point controller with a circular face and a small lens in the center.
BLUETOOTH ENABLED		☒
OPERATING TEMPERATURE		-40°F to 176°F
WEATHER RATING		IP66
BATTERY-POWERED		☐
HARD-WIRE POWERED		12-24V
BATTERY TYPE		
BATTERY LIFE		
MAGNETIC SECURITY KEY		☒

Specifications – Unit Controller

- Connectivity: 2.4Ghz Bluetooth and 2.4Ghz Proprietary mesh technology
- Power: 24V DC input: 25 mA operational current / Lock activation, 1.75 A – 0.01 sec to 25 sec
- Accessory Options: Battery Adapter for 4x 18650 batteries or 1x 3v D-Cell, Motion Sensor, Relay board
- Enclosure: Long cup, Short cup, Surface Cone



Specifications – Thermal Motion Sensor

- Power: 3-6V DC input: 50 uA operational current
- Thermal Detection Range: 10 feet x 10 feet

Unit Controller (V3.2) Surface Mounted Cone



Version 3.3 Unit Controller



Unit Controller, Short Cup (V3.3)



Specifications – SecurGuard Electronic Lock

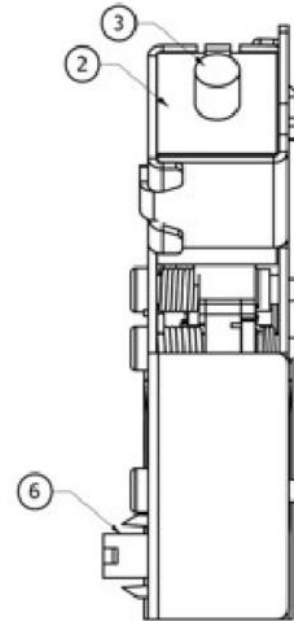
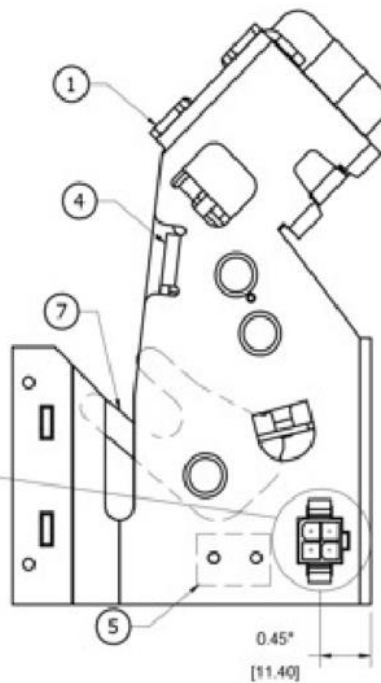
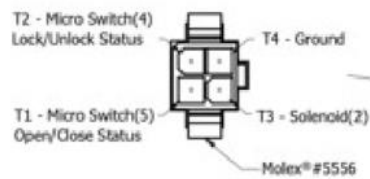
- Power: 24V DC/1.75A

Essential Parts/Components & Performance Characteristics

- Electrically Unlocked** - Electrical actuation of solenoid places lock assembly in unlocked status.
- Mechanically Locked** - Lock assembly placed into locked status mechanically via steel lock bar.
- Fail Secure System** - Power Loss/Failure will result in lock assembly remaining in the locked position until power is restored or manual release button is actuated.
- Entrapment Protection** via manual release button (3).
- Operating Temperature Range:** -20° C to 80° C

Components:

- 14 Ga. Steel Housing - Zinc Coated for corrosion resistance.
- 24VDC/1.75 Amp Solenoid-cycle 1/10th of a second
- Manual Release Button- Phosphorescent Paint Coated
- SPST NO MICRO SWITCH - Monitoring Lock/Unlock Status. IP 67 Dust/Humidity Rating
- SPST NO MICRO SWITCH - Monitoring Door Open/Close Status. IP 67 Dust/Humidity Rating
- 4 CKT MOLEX FEMALE TERMINAL #5556
- Steel U-Latch. Secures Lockbar into locked position



Key Benefits and Features

- **Keyless Entry:** Tenants can access a facilities entries (automated gates, automated high speed roll up doors, sliding glass doors) as well as their roll up or swing door self-storage unit using their smartphone.
- **Secure Encryption:** All communication is heavily protected using 128-bit AES encryption.
- **Access Control Down to the Unit:** Tenants have access to applicable entry points as well as their unit through the Bluetooth connection in the Nokē Smart Entry Controller. The controller is mounted at entry points as well as individual units.
- **iOS and Android Compatible:** The Nokē Smart Entry Controller can be activated from the smartphone app on iOS and Android devices. *Tenants without smart phones or not wishing to use their smart phone for entry can access via Bluetooth key fob.

Agency Listings

- **UL Listed solution:**
 - BP21083 - Access Control System Units/ALVY
Signal appliances, misc. Certified for Canada/UEHX7



- E503729 - Door, Drapery, Gate, Louver, and Window Operators and Systems/FDDR
Door, Drapery, Gate, Louver, and Window Operators and Systems Certified for Canada/FDDR7



Compliance Statement

Nokē Volt (Unit Controller 3.3)

FCC ID: 2BGPA-DESSI

IC: 32315-UCVLT

FCC Interference Statement

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, 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 the 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.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

This device may not cause harmful interference, and

This device must accept any interference received, including interference that may cause undesired operation.

Safety Information

Retain and follow all safety and operating instructions provided with your equipment. In the event of a conflict between the instructions in this guide and the instructions in equipment documentation, follow the guidelines in the equipment documentation.

Observe all warnings on the product and in the operating instructions. To reduce the risk of bodily injury, electric shock, fire, and damage to the equipment, observe all precautions included in this guide.

You must become familiar with the safety information in this guide before you install, operate, or service Nokē products.

Chassis

- Do not block or cover the openings to the equipment.
- Never push objects of any kind through openings in the equipment. Dangerous voltages might be present.
- Conductive foreign objects can produce a short circuit and cause fire, electric shock, or damage to your equipment.

Batteries

- The equipment battery contains lithium manganese dioxide. If the battery pack is not handled properly, there is risk of fire and burns.
- Do not disassemble, crush, puncture, short external contacts, or dispose of the battery in fire or water.
- Do not expose the battery to temperatures higher than 60°C (140°F).
- If the battery is replaced by an incorrect type, there is danger of explosion. Replace the battery only with a spare designated for your equipment.
- Do not attempt to recharge the battery.
- Dispose of used batteries according to the instructions of the manufacturer. Do not dispose of batteries with the general office waste.

Equipment Modifications

- Do not make mechanical modifications to the system. Riverbed is not responsible for the regulatory compliance of Nokē equipment that has been modified.

RF Warning Statement

This equipment should be installed and operated with a minimum distance of 20CM between the radiator and your body.

WARNING: Upon initialization, the radio within the device is dynamically assigned a specific country configuration based on the geographical location of the deployment. This process ensures that each radio's broadcast frequency bands, channels, and transmitted power levels are compliant with country-specific regulations when properly installed.

Only use the locality profile for the country in which you are using the device. Tempering or modification of assigned radio frequency parameters will render the operation of this device illegal. Wi-Fi or Wirepas devices for the United States are permanently locked to a fixed regulatory profile (FCC) and cannot be modified.

The use of software or firmware not supported/provided by the manufacturer may result that the equipment is no longer in compliance with regulatory requirements and may subject the end user to fines and equipment confiscation by Regulatory Agencies.

Antenna

WARNING: Only use the supplied or approved antennas. Unauthorized use, modification, or attachments including the use of third-party amplifiers with the radio module could cause damages and may violate local laws and regulations.

Regulatory Approval

WARNING: Operation of the device without regulatory approval is illegal.

ISED Compliance Statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

RF Warning Statement

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

RF Exposure Compliance-This equipment complies with IC RSS-102 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. Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

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.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

Waste Electrical and Electronic Equipment (WEEE) Compliance Statement

Do not discard a product. European Union Directive 2012/19/EU requires a product to be recycled at the end of its useful life. Follow all waste management actions defined by this directive. Directive requirements may be superseded by EU member nation law. Perform the following actions to identify pertinent information:

- Review the original purchase contract to determine a contact regarding waste management of a product

Restriction on Hazardous Substances (RoHS) Compliance Statement

The product complies with environmental requirements as set forth in European Union Directive 2011/65/EU with respect to the following hazardous substances:

- Cadmium
- Hexavalent chromium
- Lead
- Mercury
- Polybrominated biphenyl (PBB)
- Polybrominated diphenyl ether (PBDE)



Nokē Inc. here with declares that this unit complies with the fundamental requirements and relevant regulations set forth by Guideline 1999/5/EU. The declaration of conformity can be found at noke.com/ce or requested by e-mail: support@noke.com
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Nokē Unit Controller 3.2

FCC ID: 2BGPA -UCON2

IC: 32315-UCXXX

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