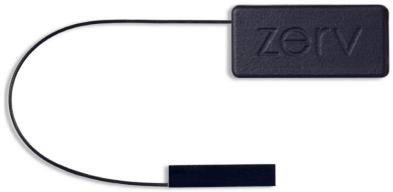
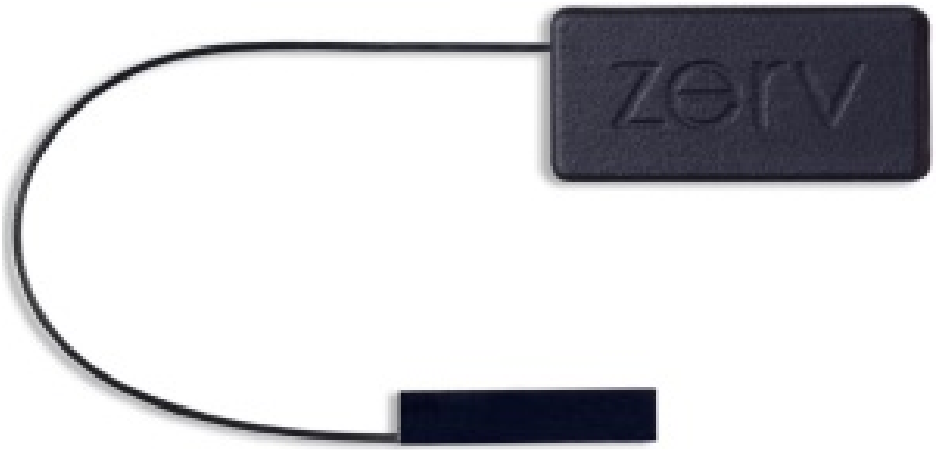


ZERV0001 Access Control Device Instructions

ZERV0001 Access Control Device Instructions



Modernize your current access control system to accept physical and smart device credentials.

No costly replacements. No disruptive rip-and-replace.

- **A single command center for all credentials**
  Consolidate all user credentials into one secure, convenient location.
- **Retain existing cards and badges**
  Maintain support for physical card, fob and badge keys while enabling digital credential access.
- **Adjustable range**
  Precisely extend or restrict activation range for environmental and security requirements.
- **Fast, easy installation**
  Adapts to your existing readers with ease, no costly or disruptive installation.
- **Remote management and updates**
  Instantly configure settings and automatically update firmware across your entire system from a single interface.
- **Insightful data, smarter buildings**
  Translate reader use information into more efficient, less wasteful processes and properties.

Contents

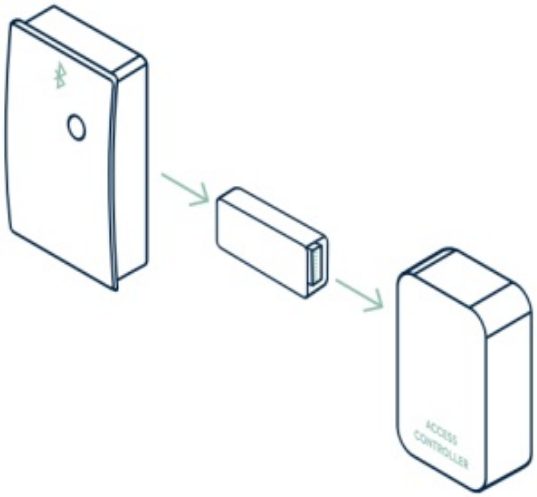
How it works

The universal translator

The Zerver B adds digital credential reading capabilities while preserving the use existing cards, fobs and badges. It fits seamlessly between your existing reader and access control system, converting Bluetooth Low Energy (802.15.4) signals from a smart device into secure, industry standard access requests.

Installation

Set up is fast, simple and minimally disruptive to existing systems. The Zerver B is powered from the host controller. Mobile access is enabled by connecting one side of the device directly to the control panel and the other side directly to the reader. A full wiring diagram can be found in the Install Guide with dimensions, antenna instructions, wiring instructions and power-up steps.



Tech Specs

Description	A mobile access control solution that enables support for digital credentials and easil y integrates into your current access control system.
Compatibilities	Most popular 125kHz proximity formats from HID®, Indala®, AWID®, GE Casi®, and Honeywell®, MIFARE Classic and MIFARE DESFire

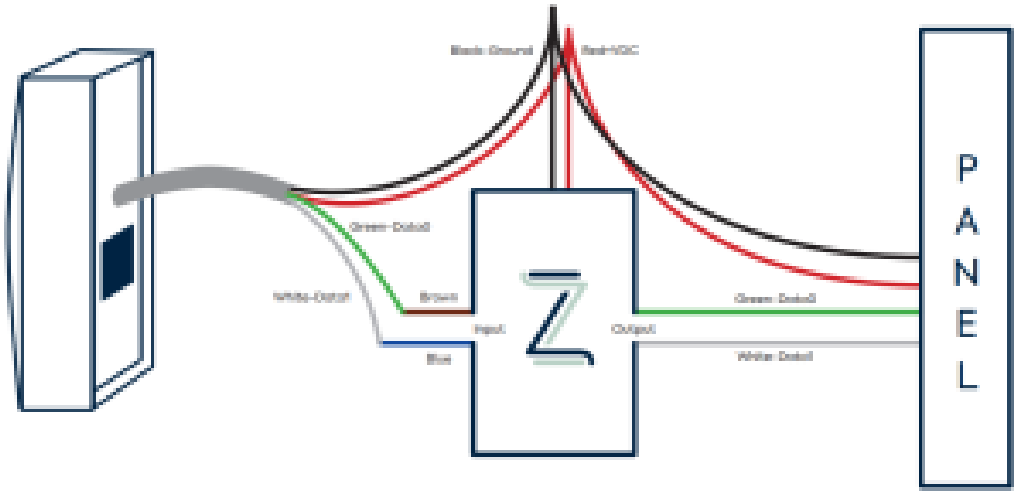
Mobile Operating Systems	Apple iOS 13 or later and Android 10 or later on devices with the Zerv software.
Wired Interface	Wiegand, RS-485
Encryption	AES 256-CBC, x.509, OSDP v1, OSDP v2, SHA256, AES-256-CCM
IoT Protocol	MQTT (ISO/IEC 20922), TLS1.2
Power Requirements	5 – 24 V DC
Power Consumption	Bluetooth 15 mA, LoRa 50 mA
Bluetooth	Bluetooth 5.0
Bluetooth Frequency Range	2.400 GHz – 2.4835 GHz
Bluetooth Distance	Up to 50 ft (15 meters)
LoRa	LoRaWAN Specification v1.3
LoRa Frequency Range	902 MHz – 928 MHz
Dimensions	49.6 mm x 22.8 mm x 11.4 mm
Certifications	FCC, IC
Warranty	Indefinite. Devices are leased at no cost with a software subscription.

Do not cut any other wires besides

Red | Black | Green | White

Keep all other colors connected between the reader and the panel: They are important and are not used by Zerv.

- Use approximately sized wire nuts on all wire splice connections.



FCC Notes

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.

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

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.

ISED Notes

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.

Documents / Resources

	Zerv ZERV0001 Access Control Device [pdf] Instructions ZERV0001, 2A2BQ-ZERV0001, 2A2BQZERV0001, ZERV0001 Access Control Device, Access Control Device