

VXS-5

Single-Door Stand Alone Proximity Access Control System

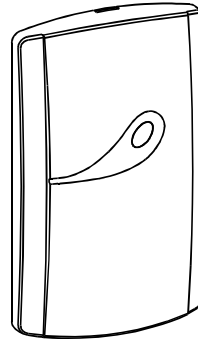
Installation Instructions

1. INTRODUCTION

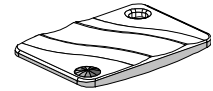
Thank you for selecting the VXS-5, the most economical, proximity access control system on the market designed for small installations. It is a stand alone, self contained access control system built into a proximity reader housing. The VXS-5 meets the need of many users for an electronic door strike control system with a memory capacity of 10 keys or less. A small office, private home or apartment would be the ideal application for the VXS-5.

The VXS-5 memorizes a master key plus 10 keys and comes with five free proximity tags.

The system is powered from a 12 VDC external power supply. The EMS (Electromagnetic Door Strike) is energized with 12 VDC when a valid key is presented. System wiring requires 4 leads only - 2 for power and 2 for the EMS.



VXS-5 Reader and Controller



Proximity Key Tag

2. SPECIFICATIONS

VXS-5 CONTROLLER

Frequency: 125 kHz
Power Input: 12 - 14 VDC
Power Output to EMS: 12 VDC
Maximum Current: 150 mA (Idle), 650 mA (EMS open)
Indicators: Tricolor LED - Green, Red, Amber
Tag Reading Range: 50 - 100 mm (2-4 in.)
Tag Codes Possibilities: 10¹² possible combinations
Key Memory: 10 keys

Size (H x W x D): 116 x 70 x 16.8 mm (4-1/2 x 2-3/4 x 5/8 in.)
Weight: 121.5 g (4.3 oz)
Operating Temperature: -20°C to 50°C (-4° to 122°F)
Color: Dark gray

TAG-1 PROXIMITY TAG

Size: (H x W x D): 53 x 35 x 7 mm (2-1/8 x 1-3/8 x 9/32 in.)
Weight: 5.5 g (0.2 oz)
Color: Dark gray

3. INSTALLATION

- Insert a screwdriver into the recess at the bottom or top of the case, and separate the cover from the reader.
- Drill a hole in the wall for the cable.
- Place the base on the installation surface while passing the cable through the hole, mark two points for drilling, drill the holes, and insert the enclosed plastic anchors, if necessary.
- Fasten the base to the mounting surface, using the enclosed screws.
- Connect each wire to the corresponding terminal according to the following list:

Wire color	Function
Black	12V Power [+]
Black/White	12V Power [-]
White	EMS [+]
White/Orange	EMS [-]
- Replace the reader's cover, ensuring that the cover is aligned correctly. This will make the LED visible.

4. PROGRAMMING

Note: The VXS-5 exits programming automatically and reverts to normal operation if no activity is detected for 10 seconds.

4.1. Initial Non-programmed State

When first connected to power, the LED blinks amber and red alternately to indicate that there is no master key.

- Present one of the keys supplied with the unit. This key will become the master key.
- The VXS-5 accepts the master key and the LED turns amber to indicate the idle state.

Note: It is recommended to keep the master key in a safe

place. The master key is used for programming only and cannot be used for access control.

4.2. Add Keys

Hold the master key next to the unit for 10 seconds. The LED will start blinking green at the rate of 2 Hz (twice a second) to indicate the ADD mode.

While in ADD mode:

- Present a key to be added.
- The green LED lights up steadily for 2 seconds to indicate acceptance of the new key.
- To add more keys, wait until the unit resumes blinking green and present a new key.

- When the memory is full with 10 user keys, the VXS-5 will not accept any more keys and continue blinking green at 2 Hz even when a new key is presented.

4.3. Delete Keys

While in the ADD mode, hold the master key near the unit for 10 seconds.

- The LED starts blinking red, thus indicating the DELETE mode.
- If the key to be deleted is available, simply present it to the unit for deletion. The red LED lights up steadily for 2 seconds to indicate that the key has been deleted.

If the key is lost or stolen, all keys must be deleted and the available keys have to be added back in.

- While in the DELETE mode, present the master key to the VXS-5 for about 10 seconds.
- The red LED will light up steadily for 2 seconds to indicate that all keys have been deleted.
- Exit DELETE mode by waiting 10 seconds with no activity.
- Enter the ADD mode (see 4.2) and add all available keys.

4.4. Set Unlock Time

The default unlock duration is 5 seconds. To change it, you need to be in the DELETE mode (see 4.3).

- To exit the ADD mode wait 10 seconds with no activity.

- While in the DELETE mode present the master tag for about one second.
- The LED blinks amber at 2 Hz rate.
- Present a valid (non-master) key for the required unlock duration and remove it promptly.
- The VXS-5 will define the new unlock duration as the length of time the key was presented.

4.5. Reset Master Tag

Resetting the master is performed by connecting the EMS- to the Power- in the following order:

- While the unit is connected to power, touch the EMS- wire to the -12V Power for about 1/2 second
 - Wait about 2 seconds (count 1.. 2.. 3..)
 - Touch the EMS- wire to the -12V Power again, for 1 second
- It may take some practice to get it right. Eventually the master is erased, and the LED blinks red / amber alternately indicating that a new master is needed (see 4.1).

Note: When deleting the master tag, all other keys are not affected.

5. OPERATION

During normal operation, the LED lights amber to indicate the idle state. When presenting a valid key, the LED lights green and opens the lock for 5 seconds (default unlock duration). If a key is invalid, the LED lights red for 2 seconds.

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 device 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 residential installations. 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 and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one which supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

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

If more than 5 consecutive invalid keys are presented with less than 5 seconds between every two keys, the VXS-5 increases the time of the red LED to 5 seconds and reverts to 2 seconds when a valid key is presented or if more than 60 seconds have passed with no activity.

WARRANTY

VisAccess Ltd. and/or its subsidiaries and its affiliates ("the Manufacturer") warrants its products hereinafter referred to as "the Product" or "Products" to be in conformance with its own plans and specifications and to be free of defects in materials and workmanship under normal use and service for a period of twelve months from the date of shipment by the Manufacturer. The Manufacturer's obligations shall be limited within the warranty period, at its option, to repair or replace the product or any part thereof. The Manufacturer shall not be responsible for dismantling and/or reinstallation charges. To exercise the warranty the product must be returned to the Manufacturer freight prepaid and insured.

This warranty does not apply in the following cases: improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than the Manufacturer.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express or implied, including any warranty of merchantability or fitness for a particular purpose, or otherwise. In no case shall the Manufacturer be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties whatsoever, as aforesaid.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products.

The Manufacturer does not represent that its Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. User understands that a properly installed and maintained alarm may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no death, personal damage and/or damage to property as a result.

The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function. However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the Manufacturer's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

Warning: The user should follow the installation and operation instructions and among other things test the Product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

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Technical Dept.: 35 Hamelacha St. Carmiel 20100 ISRAEL Tel: 972 4 9081115 Fax: 972 4 9081116
Sales Dept.: 30 Habarzel St. Tel Aviv 69710 ISRAEL Tel: 972 3 645 6789 Fax: 972 3 645 6891
Internet: www.visaccess.com
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