

4 Troubleshooting

NOTE: Before including the product to your Z-wave network it is advised to perform removal procedure to reset network settings.

This device is using a radio signal that passes through walls, windows and doors. The range can be influenced by local conditions such as large metal objects, house wiring, concrete, furniture, refrigerators, microwaves and similar items. On average, the indoor range is approximately 12- 30 meters.

- Do not expose this product to excessive heat or moisture.
- Prevent long term exposure to direct sunlight.
- Do not attempt to repair this product. If the product is damaged or if you are in doubt about the proper operation, take the product back to the place of purchase.
- Do not clean the product with any liquid.
- Do not paint.

FREQUENTLY ASKED QUESTIONS

Q1: Why doesn't the RFID Controller read tags?

A1. The device is not (correctly) included in a Z-Wave network. Include the device and try it again.

A2. Are you using the right tags? The supported protocols are ISO15693, ISO18000-3, Tag-it™.

A3. The batteries are empty that the device cannot startup, try install new.

A4. The tamper switch is not fully or properly pressed. You should hear a clicking sound when the Tamper switch is pressed in completely.

Q2: The buttons don't work, even when the batteries are in.

A1. The tamper switch is not fully or properly pressed. You should hear a clicking sound when the tamper switch is pressed in completely.

A2. The batteries could be empty. Put new batteries in and try it again.

Q3: I can't have the RFID Controller included into my Z-Wave network, what am I doing wrong?

A1. Is the controller ready to include any device into the Z-Wave network? If the controller is not in Include or exclude mode, the RFID Controller will not be included or excluded.

A2. The RFID Controller is already included in a Z-Wave network. Exclude the RFID Controller and Try to include it again.

Q4: I have configured a value but when I request it, it is not changed?

A: It is mandatory that the correct size is used while configure a parameter; go to the documentation about the configuration command class to check if the right size is used during configuration. If the wrong size is used the frame is ignored.

Q5: I have configured a new value and when I request it the correct value is returned but the behavior is still the same?

A: Some configuration parameters have limits of what they can do, go to the documentation about configuration to check if the value of the configured parameter is out off limit.

Q6: When I mount the RFID Controller it performs its standard mounting routine but after 8 seconds the indicator light doesn't go on for 1 second but blinks 6 times.

Blinking 6 times can mean:

1. RFID Controller is not included
2. RFID Controller is not associated
3. RFID Controller can't reached his destination

If all three options are corrected, the RFID Controller is will operate correctly and can be mounted again.

Package Contents

- 1) DHS RFID Wall Scene Controller
- 2) RFID Tag (1 pcs)
- 3) Two wall screws and 3M tape
- 3) Product Manual and Installation Guide
- 4) Integration with Vera Z-Wave Home Controllers Manual

DHS RFID Wall Scene Controller is Z-Wave enabled device for Home Automation system which can:

- arm/disarm a security system or control predefined scenes and modes
- can read Mini RFID tags to arm/disarm
- has keypad for manual code entry to arm/disarm
- have sound and light indication features

Technical Specifications:

Item	Description
RF Protocol	Z-Wave , ISO15693, ISO18000-3, Tag-it™, RFID
Z-wave device type	BASIC_TYPE_ROUTING_SLAVE GENERIC_TYPE_ENTRY_CONTROL
Operating Voltage	2 x AA 1.5V batteries (from 2.3 to 4V DC)
RF Frequency	921.42Mhz AUS/NZ
Operating humidity:	30% to 80%
Operation Range	Up to 30m when no obstacles
Application	Indoor use only
Operation Temperature	10 ° C to 40 ° C
Storage Temperature	-5°C to 80 °C
Weight	45g (excluding batteries)
Housing	ABS

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Product Manual and Installation Guide



DHS RFID Wall Scene Controller

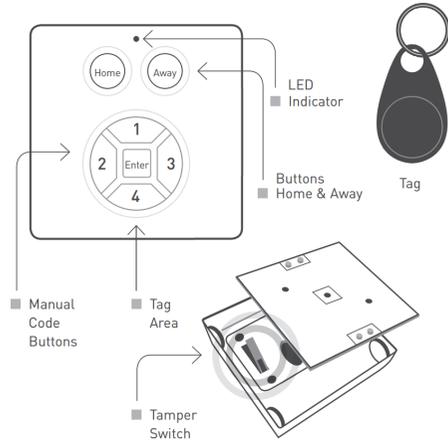
CATALOGUE NO: DHS-CON-RFID-DHS



1 Installation

Mounting

1. Use a flat screwdriver at the inlets on the sides to gently unlock the back cover.
2. Use the designated holes on the back cover to screw mounts the DHS RFID Wall Scene Controller (**RFID Controller**).
3. Place two AA 1,5V batteries into the device.
4. Mount the RFID Controller onto the back cover, be sure to close it on all sides and that the tamper gets through the back cover of the RFID Controller. (Indication mode: Tamper pressed/released).
5. After 1 seconds start up routine begins (indication mode: Ready for learn mode).
- 6 After 3 more seconds (4 seconds in total) mounting is completed. (indication mode: Mounting successful)
7. The RFID Controller is now ready to configure in Z-Wave controller.



Include or exclude in Z-Wave network

1. Make sure your Z-Wave controller is in the right operation mode (include or exclude)
2. Press and hold the tamper for 2 seconds and release to start the inclusion/exclusion process (indication mode: Ready for learn mode).
3. (The product will start NWI automatically after unsuccessful normal inclusion)

More on integration and configuration in Vera Z-Wave Home Controllers in DHS RFID Wall Scene Controller Integration Manual document.

Indication modes

The indicator gives various statuses of the device as follows:

1. Ready for learn mode: Indicator light blinks every second.
2. Learn in progress (add): Indicator light blinks 2 times every second.
3. Learn in progress (remove): Indicator light blinks 3 times every second.
4. Learn mode success: Indicator light is on for 1 second.
5. Learn mode failed: Indicator light blinks 8 times fast.
6. Tamper pressed/released indicator light blinks 3 times rapidly.
7. Mounting successful indicator light is on for 1 second.
8. Busy sending an RF message Indicator light is blinking each second.
9. RF message send failed indicator light blinks 6 times rapidly

2 Operation

Basic Operations

- The RFID Controller can arm/disarm a security system.
- The RFID Controller can read RFID-tags.
- The RFID Controller has the possibility for the user to manually insert codes.
- The RFID Controller's indicator light will react differently on each action.
- The RFID Controller has a buzzer, which can be used as walk-in/walk-out notification (alarm is being disabled/activated).

Control

The RFID Controller operates as an access control device, using the combination of the USER_CODE command class and the ALARM_V2 command class.

User Codes are to be stored in the RFID Controller, using the USER_CODE_SET command.

When the User Codes are stored in the RFID Controller, the ALARM_REPORT_V2 will have the corresponding USER_ID with the used USER_CODE.

There are two types of Access Control with User Codes:

1. Manually by using the buttons on the RFID Controller
2. Using the RFID reader and Tags

The difference in using one of the above mentioned methods is:

1. When pressing Home/Away, the manual codes (1-4) can be pressed within 1 second. After entering the code the user must press ENTER and the USER_CODE_REPORT or ALARM_REPORT_V2 will be sent.
2. When the user waits 1 second after pressing Home/Away, the RFID reader is started and a Tag can be presented at the RFID Controller.

After successful read, the USER_CODE_REPORT or ALARM_REPORT_V2 will be sent. Because the RFID codes are not readable on the Tags, the RFID Controller has some special procedures.

There are some situations:

1. **In case an unknown Manual Code entered or unknown Tag is presented.** In this case, the RFID Controller will send an unsolicited USER_CODE_REPORT with **UserID 0** and **UserID Status 0**. A controller will receive this report and can initiate a USER_CODE_SET to the RFID Controller.
2. **In case a known Manual Code or Tag is presented.** This means, this code was previously SET using the USER_CODE_SET command. Then the RFID Controller will respond with a ALARM_REPORT_V2 with **Type 6** and **Event 0x05 or 0x06**. When the user presses **Home**, event **0x06** (Keypad Unlock) will be used. When the user presses **Away**, event **0x05** (Keypad Lock) will be used.

Some examples are given in the **Typical operation diagrams** chapter.

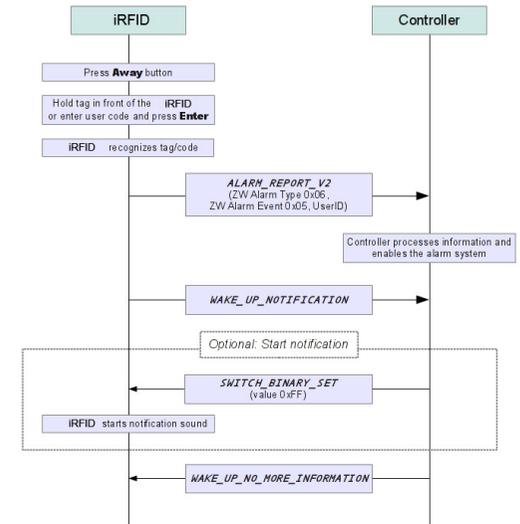
You can find the product's full technical specification in DHS RFID Wall Scene Controller Tech Specification document.

3 Typical Operation diagrams

Typical operation diagrams

The following diagrams show the user action that is required and the messages which are being sent from/to the RFID Controller for several basic operations, including optional functionality as the sound notification and UID acknowledgement.

Arm the alarm system



Disarm the alarm system

