

TOTAL CONTROL



MRX-4SEN2 OWNER'S MANUAL





Table of Contents

Introduction		
Front Panel Description		
Rear Panel Description		
Installing the MRX-4SEN2		
Wireless Setup		
Specifications		
Limited Warranty Statement		



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Hours: 9:00am - 5:00pm EST M-F



Introduction

The MRX-4SEN2 Sensor Extender is designed to meet the needs of **residential** or **small commercial** environments.

Only **Total Control** software, products, and user interfaces are supported by this powerful device.

Features and Benefits

- The MRX-4SEN2 utilizes the network (wired or wireless) for a more stable communication to the Total Control System that is less susceptible to interference and more reliable. This grants you the flexibility to install it virtually anywhere in the project.
- Add one or more MRX-4SEN2 throughout your home or office to detect changes in a connected sensor, which may be used to trigger system events.
- The **small size** of the MRX-4SEN2 allows it to easily fit behind equipment or into places where a traditional base station would not.









Parts List

The MRX-4SEN2 Sensor Extender includes:

- 1x MRX-4SEN2 Sensor Extender
- 4x Mounting Screws

• 1x AC Power Adapter

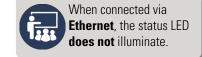
Mounting Plate



Front Panel Description

The front panel of the MRX-4SEN2 Sensor Extender displays the following information:

- 1. **Power LED:** Indicates the device has power.
- **2. Status LED:** Indicates three (3) possible states:
 - **Green:** Good signal strength.
 - **Red:** Poor signal strength.
 - Off: No connection.



3. Data LED: Indicates the device is transmitting IR data.



Rear Panel Description

The rear panel of the MRX-4SEN2 Sensor Extender displays the following information:

- 1. **DC 5V:** Connect the supplied power adapter to this port, the Power LED becomes solid blue when the device has received power.
- **2. Sensor Inputs:** Connect the sensor's 3.5mm plug to an available port. The following **URC sensors**, with their respective **model numbers**, are **compatible** with the MRX-4SEN2:
 - Voltage Sensor SEN-VOLT
 - Video Sensor SEN-VID
 - Contact Closure Sensor SFN-CCLS
 - Light Sensor SEN-LITE
 - Current Sensor (Magnetic Field) SEN-CMF
 - Audio Sensor SEN-AUD



3. **Ethernet:** If a wired connection is **needed**, this port uses a standard Ethernet (RJ-45) plug to communicate via the local area network (LAN).



TOTAL CONTROL

Bottom Panel Description

The bottom panel of the MRX-4SEN2 Sensor Extender displays the following information:

- **1. Serial Number Sticker:** The ZIGBEE Address (16 characters) identifies this wireless device when connected to the network.
- **2. MAC Number Sticker:** The serial number, located at the bottom of the unit, uniquely identifies the product.
- 3. WPS (Wi-Fi Protected Setup): Functions with other wireless devices (routers, wireless access points, etc.) to provide a simplified method of connection to the network. Press this button in conjunction with the WPS button found on your other wireless devices to establish.
- **4. Reset Button:** Turns the unit **OFF** then **ON** again, and reconnects to the network.





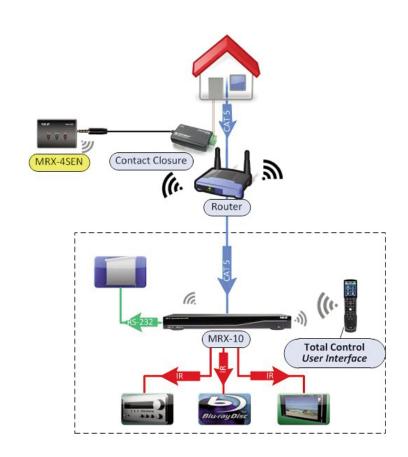
Installing the MRX-4SEN2

The MRX-4SEN2 Sensor Extender can be installed almost anywhere in the home.

Once physically installed, it requires programming by a certified URC integrator in order to function properly.

Connect the 3.5mm sensor plug to the **rear** of the MRX-4SEN2. When a **change** in the sensor's **state** is detected, the MRX-4SEN2 sends a signal to the MRX Advanced Network System Controller and **triggers** a series of commands.

This home network example showcases a **voltage sensor** connected to the home's doorbell and the MRX-4SEN2. Whenever the door bell is pressed, a signal is sent over URC's RF 2.4GHz to the MRX Advanced Network System Controller. The MRX unit **triggers** a series of commands or an event to gain your attention. A programmed event, such as Watch Movie/TV, may pause the movie, mute the audio and display the front door's video camera.



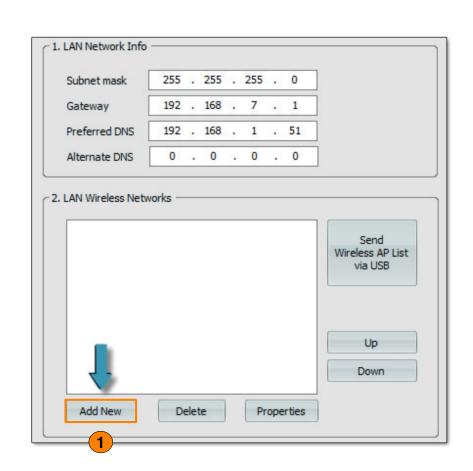


Wireless Setup

The key feature added to the MRX-4SEN2 is adding **Wi-Fi connectivity** to an already brilliant sensor expander. Wi-Fi connection makes it simple to install the device in difficult to reach locations of the home.

1. Go to **Step 6: Network Setup** and select **Add New**.

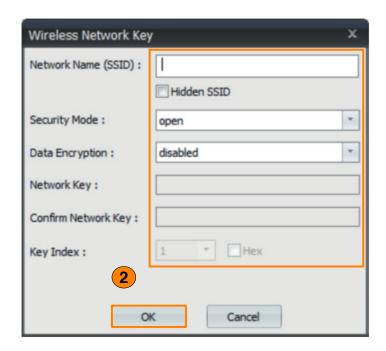






MRX-4SEN2 OWNER'S MANUAL

- 2. Fill out the wireless network information in the Wireless Network Key window. Select **OK** when finished.
- 3. Select Save, located below 2. LAN Wireless Networks.
- 4. Select **URC Device** from the sub-menu in **Step 6**.
- 5. Discover the MRX-4SEN2 using the method for **all** URC network devices.

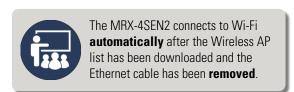


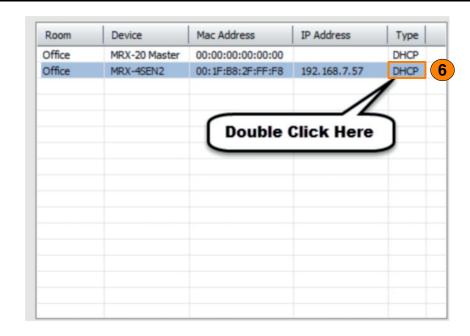


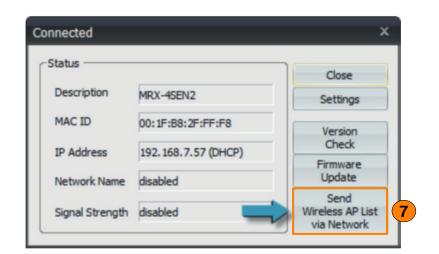


MRX-4SEN2 OWNER'S MANUAL

- 6. Highlight the MRX-4SEN2 and **double-click** on the area that reads **DHCP**.
- 7. Select **Send Wireless AP List via Network**.
- 8. Unplug the Ethernet cable from the back of the MRX-4SEN2 unit.









MRX-4SEN2 OWNER'S MANUAL

Specifications

Sensor: Four sensor ports support Video, Current, Contact Closure, Ambient Light, Audio, and Voltage sensors from URC.

Network: One 10/100/1000M RJ45 Ethernet port (two LED indicators)

RF Range (Radio Frequency): 50 to 100 feet, depending upon the environment

RF Frequency: 2.405 ~ 2.480 GHz

Weight: 2.98oz

Size: 3.74" X 2.7" X 1.1"

Power: 12V DC 1A



Limited Warranty Statement

https://www.urc-automation.com/legal/warranty-statement/

End User Agreement

The terms and conditions of the End User Agreement available at https://www.urc-automation.com/legal/end-user-agreement/ shall apply.

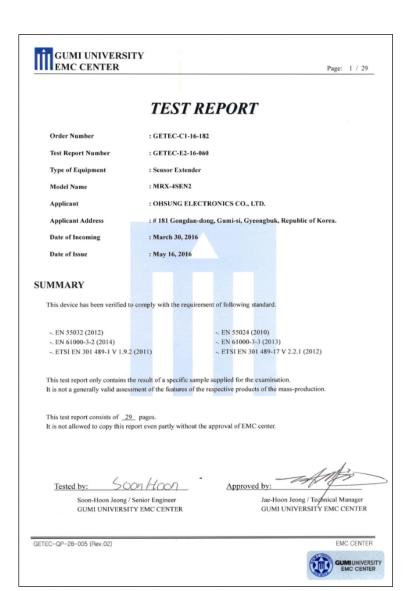
Federal Communication Commission Interference Statement

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 reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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.



MRX-4SEN2 OWNER'S MANUAL



Warning!

The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Regulatory Information to the User

- CE conformity Notice Products with "CE" marking comply EMC Directive 2014/30/EU issued by the commission of the European Community.
 - 1. EMC Directive
 - Emission
 - Immunity
 - Power
- Declaration of Conformity

"Hereby, Universal Remote Control Inc. declares that this MRX-4SEN2 is in compliance with the Essential requirements."