

# NuTone®

## SMART HOME SERIES



### NHUB100

Standard Controller  
Contrôleur standard  
Controlador estándar

### Congratulations!

Welcome to NuTone Smart Home Series Control. The Standard Controller provides entry to a world of convenience & peace of mind.

In this package you'll find:



NHUB100  
Controller  
Contrôleur  
Controlador

### Félicitations!

Bienvenue dans l'univers domotique de la Série Smart Home de NuTone. Le Contrôleur standard vous ouvre un monde pratique vous offrant la tranquillité d'esprit.

Vous trouverez dans cet ensemble :



AC Power Adapter  
Adaptateur d'alimentation CA  
Adaptador eléctrico de CA



Ethernet Cable  
Câble Ethernet  
Cable Ethernet

### ¡Felicitaciones!

¡Bienvenido al control Serie Smart Home de NuTone! El Controlador estándar le abre la puerta a un mundo de conveniencia y tranquilidad.

En este paquete encontrará:

### Detail Views / Vues détaillées / Vistas detalladas



- 1 Power  
Alimentation  
Alimentación
- 2 Internet
- 3 Wi-Fi
- 4 Z-Wave
- 5 Service  
Servicio

### Back / Arrière / Vista posterior

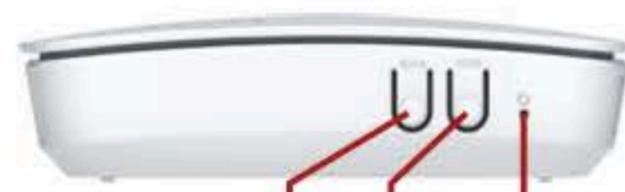


Power  
Alimentation  
Alimentación

Ethernet

USB

### Right Side / Côté droit / Lado derecho



Sync WPS  
Sinc

Reset  
Réinitialiser  
Reinicio

# NuTone®

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**For Technical Support Visit:  
Pour l'assistance technique, visitez :  
Para obtener soporte técnico, visite:**

-  support.nutonesmarthomeseries.com
-  +1 (888)-336-6151
-  support@nutonesmarthomeseries.com

99045697A

### Installation

- 1** Firmly connect the provided Ethernet Cable from your NHUB100 to your WiFi router (or other Internet source).
- 2** Firmly connect the AC Power Adapter to NHUB100 and plug in to an AC outlet. NHUB100 has no on/off switch, it will power up as soon as you plug in the AC adapter.

### Installation

- 1** Branchez fermement le câble Ethernet fourni avec le contrôleur NHUB100 sur votre routeur WiFi (ou une autre source Internet).
- 2** Connectez l'adaptateur d'alimentation CA au contrôleur NHUB100 et branchez-le dans une prise de courant CA. Le contrôleur NHUB100 est dépourvu d'un interrupteur et s'allumera dès que vous aurez branché l'adaptateur CA.

### Instalación

- 1** Conecte firmemente el cable Ethernet incluido desde su NHUB100 a su enrutador de Wi-Fi (u otra fuente de Internet).
- 2** Conecte firmemente el adaptador eléctrico de CA al NHUB100 y conéctelo a un tomacorriente de CA. El NHUB100 no tiene interruptor de encendido/apagado, así que encenderá en cuanto conecte el adaptador de CA.



- 3** The Standard NHUB100 Controller works with the NuTone Smart Sense Series setup. To setup your controller, go to:  
<http://home.nutonesmarthomeseries.com>



If you are a new user, click the "I have a new controller" button on the screen. Agree to the terms and conditions. Then select your Controller.

If you already have an account, please login. Click the "Add another controller" button. Then select your Controller.



Follow the Setup Instructions.

- 3** Le Contrôleur standard NHUB100 fonctionne avec la configuration de la Série Smart Home de NuTone. Pour configurer le contrôleur, allez à :  
<http://home.nutonesmarthomeseries.com>



Si vous êtes un nouvel utilisateur, cliquez à l'écran sur le bouton « I have a new controller » (J'ai un nouveau contrôleur). Acceptez les conditions générales. Puis sélectionnez votre contrôleur.

Si vous disposez déjà d'un compte, veuillez ouvrir une session. Cliquez sur le bouton « Add another controller » (Ajouter un nouveau contrôleur). Puis sélectionnez votre contrôleur.



Suivez les instructions de configuration.

- 3** El Controlador estándar NHUB100 funciona con la configuración de la serie Smart de NuTone. Para configurar su controlador, haga lo siguiente:  
<http://home.nutonesmarthomeseries.com>



Si es nuevo usuario, haga clic en el botón "I have a new controller" (Tengo un controlador nuevo) en la pantalla. Acepte los términos y las condiciones. Luego seleccione su controlador.

Si ya tiene una cuenta, inicie una sesión. Haga clic en el botón "Add another controller" (Agregar otro controlador). Luego seleccione su controlador.



Siga las instrucciones de configuración.

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SMART HOME SERIES



## **NHUB100**

Z-Wave Overview Guide

## Inclusion and Exclusion

Your NHUB100 Controller can work with all Z-Wave devices, such as sensors, alarms, door locks, thermostats, etc. Over a thousand Z-Wave devices are available from many brands. (Z-Wave is a wireless communications system; check the package or specs to see if a device uses Z-Wave.) Before NHUB100 can control a device, it must be included into the NuTone system.

NuTone **Custom Device Wizards** are available for select devices that pass stringent NuTone Labs testing for compatibility and quality. The Custom Device Wizards make Inclusion/Exclusion easiest, with specific details for each device.

A list of these devices is available and updated at <http://getvera.com/compatibility/>

For all other Z-Wave devices, a **Generic Device Wizard** is used for Inclusion/Exclusion. A Generic Device Wizard is available for each device category (thermostats, sensors, alarms, etc.)

To get started, after setting up your NHUB100 Controller, use the NuTone UI to select **Devices** and then **Add Device** (Figures 1-1 & 1-2).

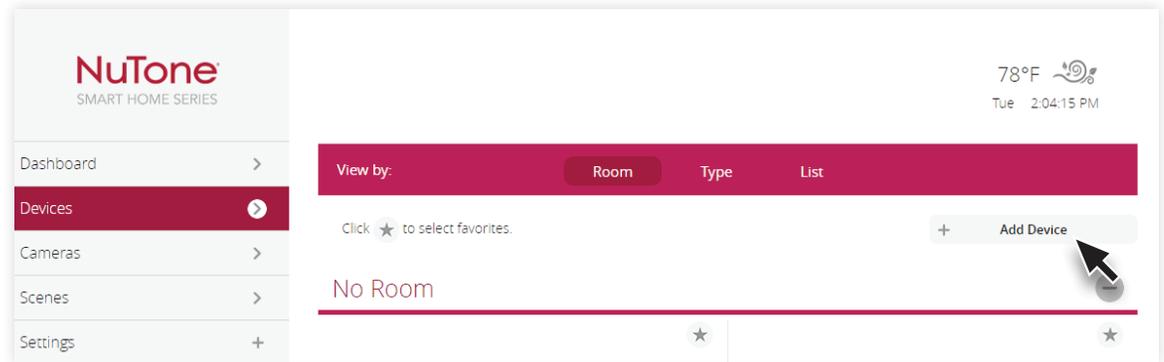


Figure 1-1: Add Device

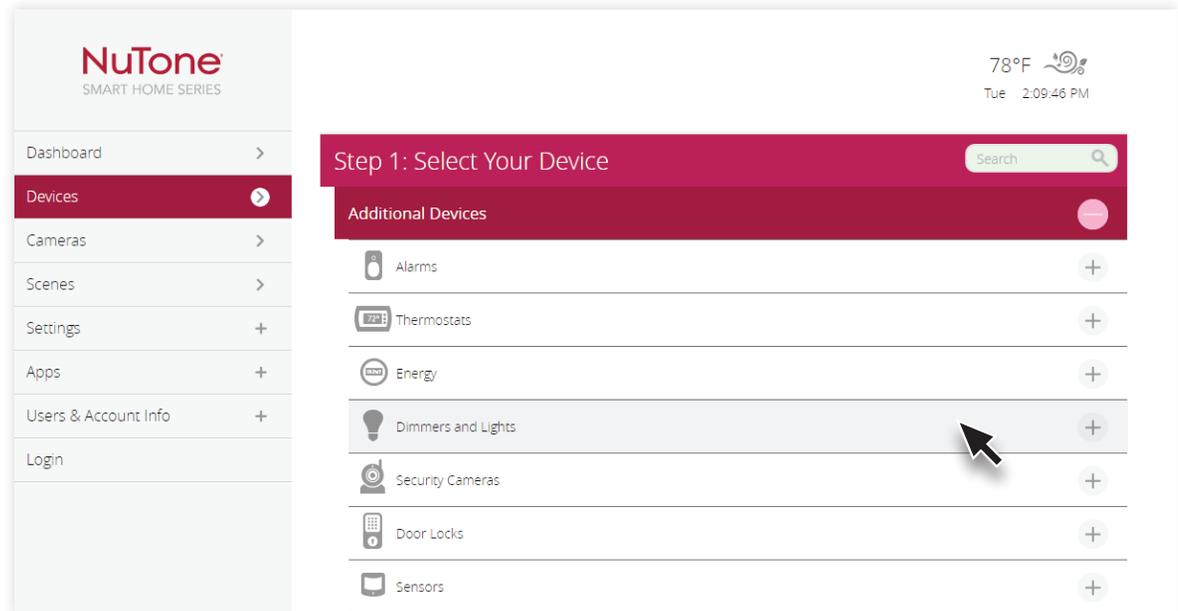


Figure 1-2: Device Paring menu

# Inclusion/Exclusion for Devices with NuTone Custom Device Wizard

## Step 1

Select **Devices** and click on the **Add Device** option.



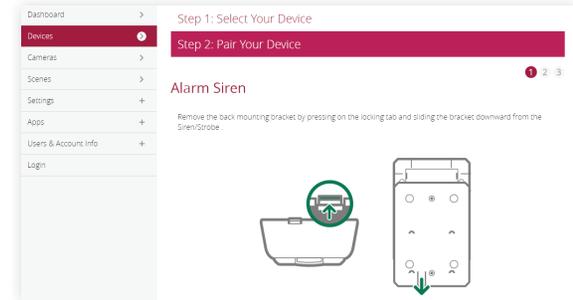
## Step 2

Click on the "+" sign for the device's category. A list of NuTone **Custom Device Wizards** is displayed. Select a device to include.



## Step 3

Follow the steps in the Device Wizard to add the device.



After adding a new device, the NHUB100 Controller will ask you to name it and choose the room it is (or will be) located in.

**Note:** If the device was previously included with a different Z-Wave system, you'll need to it exclude it before adding with your NHUB100.(You may also need to do this if you have problems Inclusion/Exclusion the first time.) Press the Retry button to start the exclusion process. Once the device is excluded, add it by following the inclusion steps.

# Inclusion/Exclusion for Devices using a Generic Device Wizard

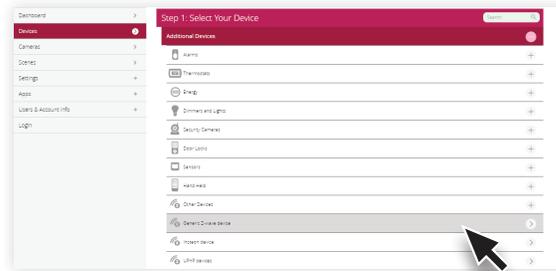
## Step 1

Select **Devices** and click on the **Add Device** option.



## Step 2

Click on the “+” sign for the Other Device’s category. A list of NuTone Custom Device Wizards is displayed. If your specific device is not shown, select the “**Generic Z-Wave Device**” option.



## Step 3

Follow the steps in the Device Wizard to add the device.



After adding a new device, the NHUB100 Controller will ask you to name it and choose the room it is (or will be) located in.

**Note:** If the device was previously included with a different Z-Wave system, you’ll need to it exclude it before adding with your NHUB100.(You may also need to do this if you have problems Inclusion/Exclusion the first time.) Press the Retry button to start the exclusion process. Once the device is excluded, add it by following the inclusion steps.

## NHUB100 Buttons

### A Sync Button

To carry out a manual setup of devices, tap the Sync button on the controller. To exit the inclusion mode on the controller, tap the Sync button again. To exclude a Z-Wave product from the network, hold the Sync button down for 3 seconds. (Figure 2-1)

### B WPS Button

Easy push button inclusion for Wi-Fi devices. (Figure 2-1)

### C Reset Button

The NuTone controllers can be reset to factory defaults by holding the reset button for 20 seconds and releasing it. This will reset the Z-Wave network and change its House ID, and clear your account and user configuration data from your controller.

The account will only be removed from the controller, but it will continue to be in the database.

Holding the reset button for 10 seconds will reset the network configuration settings to defaults, while keeping your other settings intact. (Figure 2-1)

**Note:** If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.



Figure 2-1: NHUB100 Left Side

## Advanced Z-Wave Functions

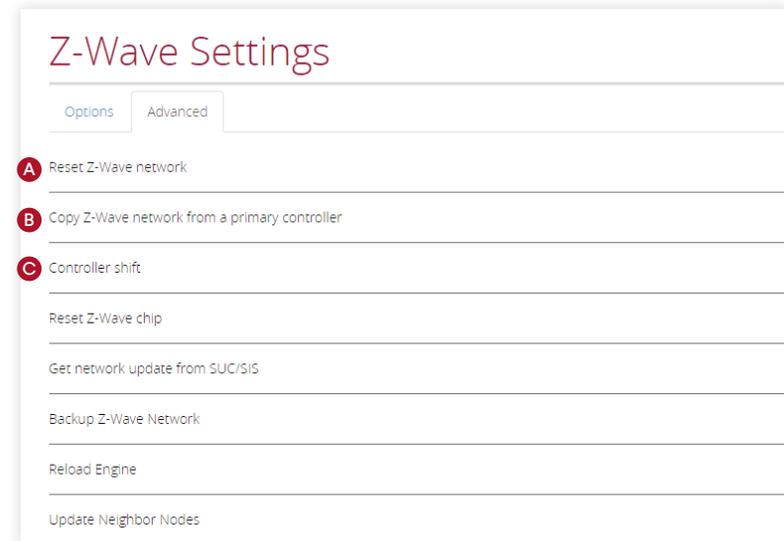
These Advanced Z-Wave Functions are usually needed only for specific (and rare) technical situations, or for professional installers creating very large systems, or for developers creating new hardware or software.

You may need to access these advanced functions if there's a problem with your system and you need to reset the Z-Wave network, if you want to upgrade to a different model of NuTone Controller, to enable another controller to operate your NHUB100, or for other technical situations as described below.

To access Advanced Z-Wave Functions select **Settings** and then **Z-Wave Settings**. Select the **Advanced** tab (Figure 3-1).

**From there you'll be able to access these Advanced Z-Wave options:**

- A** **Reset Z-Wave network**  
Will clear all the user configuration data and assign a new Z-Wave HouseID.
- B** **Copy Z-Wave network from a primary controller**  
Will allow the unit to copy all Z-Wave related information from a Primary Z-Wave Controller and is used with Replication.
- C** **Controller shift**  
Tells NuTone to transfer the role of primary controller to another Z-Wave controller. The other Z-Wave controller will become the 'Master controller', and NHUB100 will be a secondary controller. This means the other Z-Wave controller will then be responsible for healing the networking and being the SIS/SUC (a technical Z-Wave term). Normally, by default, NHUB100 is the master controller and is SIS/SUC.



**Figure 3-1:** Advanced Tab

## Advanced Z-Wave Functions

### **D** *Reset the Z-Wave chip*

This option will re-initialize the Z-Wave chip.

### **E** *Get network update from SUC/SIS*

This option will update the slave controller network from the primary controller to which it's currently added. This option is used when NHUB100 is a secondary controller.

### **F** *Backup Z-Wave Network*

NHUB100 has the ability to back up its Z-Wave network and its configuration settings to be restored on another gateway.

This procedure is explained on the page below:

[http://wiki.mios.com/index.php/Backup\\_and\\_Restore](http://wiki.mios.com/index.php/Backup_and_Restore)

### **Learn Mode**

Include your controller into an existing Z-Wave network. Steps for NHUB100 controller using the web interface.

*Click on Settings > Z-Wave Settings > Advanced > Select 'Copy Z-Wave network from a primary controller'*

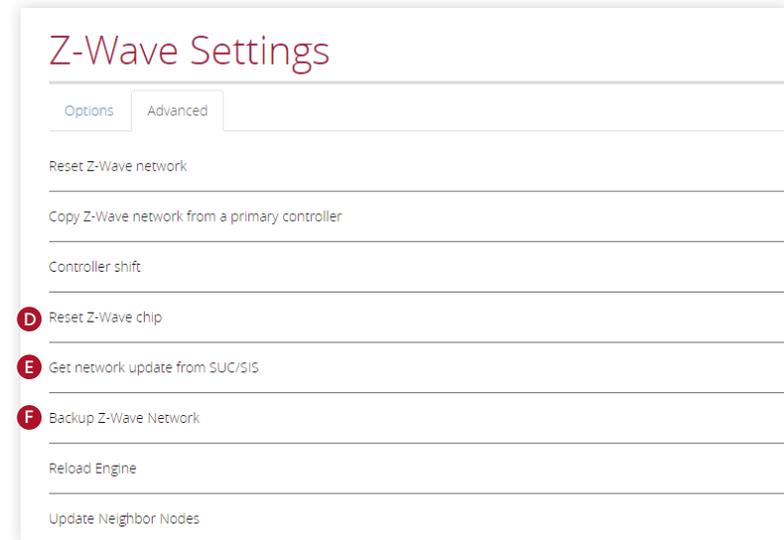
This will put the controller into learn mode and shift it to a secondary role. The controller can now receive data from a primary device in the network and associate with other devices in the Z-Wave network via the primary controller.

### **Replication**

Include another controller and transfer the Z-Wave network data to it. Steps for NHUB100 controller using the web interface.

*Click on Settings > Z-Wave Settings > Advanced > Select 'Controller Shift'*

All the Z-Wave devices will be replicated into the new controller. This is used to transfer data from one controller to another. With replication the new controller becomes primary.



**Figure 3-1:** Advanced Tab

# Advanced Z-Wave Functions

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## *Basic Command Class Handling*

The basic command class is controlled by NHUB100 and it is not mapped to any other Z-Wave Command Class.

More details can be found on our wiki page.

[http://wiki.mios.com/index.php/ZWave\\_Basic\\_Command\\_Class\\_Mapping](http://wiki.mios.com/index.php/ZWave_Basic_Command_Class_Mapping)

## *Support for Association Command Class*

NHUB100 has support for the Lifeline association command class.

group id: 1 - lifeline  
number of nodes in group: 1

More details can be found on our wiki page.

<http://wiki.mios.com/index.php/Association>

## *Support for Multiple Manufacturers in The Same Network*

The controller can be included and operated in any Z-Wave network with other certified Z-Wave devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of the vendor to increase the reliability of the network.

## *Support for sending Z-Wave Commands*

Z-Wave commands can be sent using the NHUB100 API which will allow you to send HTTP requests with the specified command class to the specified node.

More details can be found on our wiki page.

[http://wiki.mios.com/index.php/Luup\\_UPnP\\_Variables\\_and\\_Actions#ZWaveNetwork1](http://wiki.mios.com/index.php/Luup_UPnP_Variables_and_Actions#ZWaveNetwork1)

To send a Z-Wave command you'll need to add the node id of the controlled Z-Wave device and the command class used.

For example to control node 3 and send a BASIC\_SET with a value of 00, the command will be :

```
http://GATEWAY_IP/port_3480/data_request?id=
action&DeviceNum=1&serviceId=urn:
micasaverde-com:serviceId:ZWaveNetwork1&action=
SendData&Node=3&Data=0x20-0x01-0x00
```

**GATEWAY\_IP** is the actual local IP address of the unit.

**Node** is the Z-Wave node the command is sent to.

**Data** will contain the Z-Wave Command Class sent to the device.

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