
EN



Vitrum Dimmer Wireless

INSTALLATION AND OPERATION

DESIGNED AND PRODUCED
ENTIRELY IN ITALY



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0. BEFORE STARTING

The Vitrum system that you have purchased is designed for connection to your existing 240V power supply circuit. Before commencing installation, ensure that the mains power supply had been disconnected by setting the main switch on your electricity meter to **OFF**. Do not re-connect the power supply and start using Vitrum until all connections have been correctly completed and the Vitrum unit has been inserted into the wall-mounting box.

Vitrum must be installed by a professional electrician who is qualified to operate on electrical power circuits in full compliance with all current safety legislation.

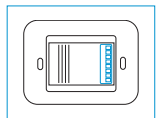
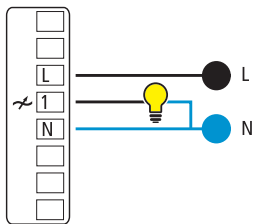
For each device, connect the power supply and the return wire from the actuators as shown in the circuit diagrams printed on the rear of the boxes in the vicinity of the terminal block. Refer exclusively to the circuit diagrams contained in this manual, especially if connecting the system without an earth wire.

Carefully check that the wires and connectors are securely fastened. After securing the unit to the wall-mounting box, temporarily use the plastic cover for protection until the glass décor plate is fitted. Do not install Vitrum in the vicinity of sources of heat or in conditions of high humidity.

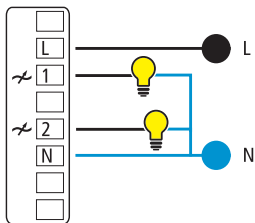
1. ELECTRICAL CONNECTIONS

1.1 Electrical connections with neutral wire

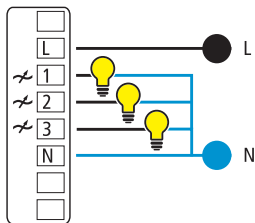
Connect the Live wire to the terminal marked **"L"**, the Neutral wire to the terminal marked **"N"** (optional) and the light(s) to the terminal(s) marked "1..3".



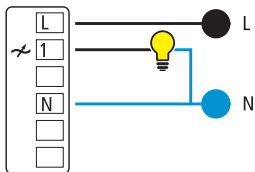
Dimmer Wireless
I EU



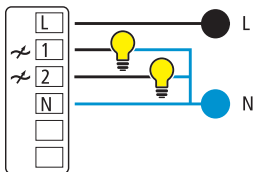
Dimmer Wireless
II EU



Dimmer Wireless
III EU



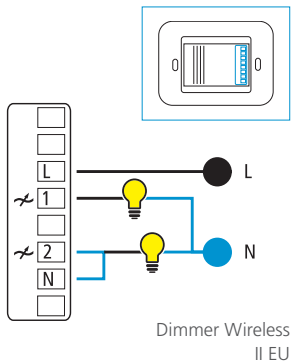
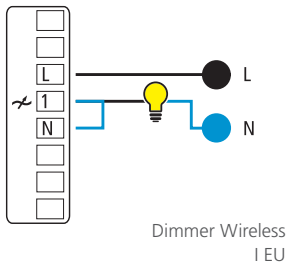
Dimmer Wireless
I BS

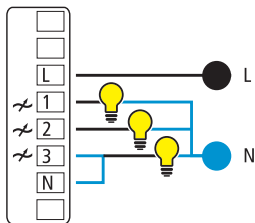


Dimmer Wireless
II BS

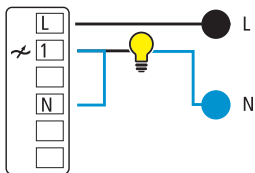
1.2 Electrical connections without neutral wire

In the case of power supply to devices with a load in excess of 40W on "1", it is not necessary to connect the Neutral wire to the corresponding terminal: in this case, connect the terminal marked "N" as shown in the figures below using the special jumpers (supplied) and connecting the neutral directly to the terminal of one of the lights connected to the system.

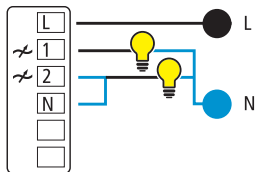




Dimmer Wireless
III EU



Dimmer Wireless
I BS



Dimmer Wireless
II BS

IMPORTANT

After connecting, check that the wires are correctly positioned inside the wall-mounting box. When securing Vitrum to the wall-mounting box, use the screws supplied and note that the **maximum torque** to be used when tightening the screws in the embedding box is 0.8 Nm. In addition, the surface of the wall for at least 2 cm surrounding the embedding box **must be** as flat and smooth as possible, and must not have any rough patches and/or bumps that protrude more than 1 mm.

If the screws are not tightened with the torque specified, or if the embedding box is installed on unsuitable surfaces, the correct operation of the device cannot be guaranteed.

Think Simple Spa accepts no liability if the device is not correctly installed as described above.

1.3 Special lamps

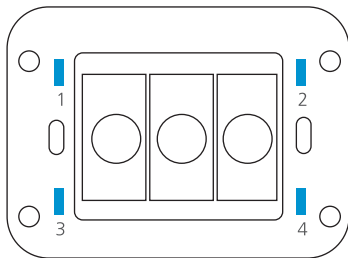
For the following types of lamps:

- Fluorescent lamps with mechanical or electronic transformers.
- Compact fluorescent lamps.
- Tungsten halogen lamps with electronic transformers.

If the **Neutral** wire is not connected, some brands or models of these lamps may not operate correctly. In this case, it is necessary to connect the Neutral wire, too.

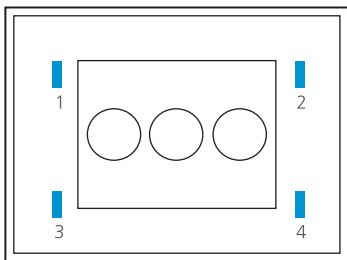
2. POSITIONING THE GLASS DECOR PANEL

In order to refit the glass panel correctly, ensure that the four plastic tabs on the panel are in perfect alignment with the anchor holes. When the glass panel tabs are aligned with the holes, press the four corners of the glass panel evenly until it is fully inserted into the wall-mounting box.



Anchor holes on electronic section

After fitting the glass panel, the buttons remain inoperative for about 10 seconds. An acoustic signal sounds three times to indicate that the sensors have been recalibrated, after which they resume normal operation. To remove the glass panel from the wall-mounting box, gently lever the upper or lower edge away.



Anchor tabs on décor panel

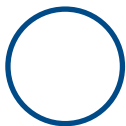
3. ECO-VITRUM

In order to help you save energy every time a light is switched on, we have designed Vitrum so that, at the first fingertip touch, the light switches on at about 65% of maximum power.

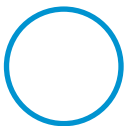
This means that the light is a little less bright than with a traditional switch; the illuminated ring on the Vitrum switch lights **GREEN** (ECO mode).

Then, with a second touch, the light increases to maximum power and the illuminated ring on the Vitrum switch lights **YELLOW**.

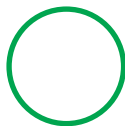
At the third touch, the light switches off; the illuminated ring lights **BLUE**, and remains lit for a few moments, after which the switch passes to "energy saving" mode.



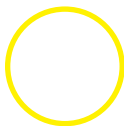
Vitrum
in stand-by mode
0%



Light Off
0%



Light On
in ECO mode
65% approx.



Light fully On
100%

When passing from one mode to the next, the illuminated ring will light RED for a moment. This indicates that Vitrum is operating in **STAND ALONE** mode and has not yet been connected to your home wireless network.

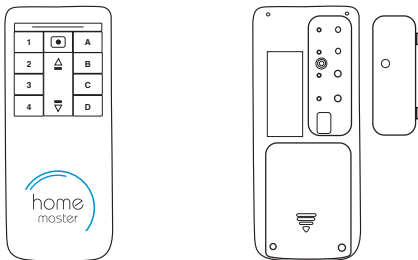
IMPORTANT

If the illuminated ring lights RED and flashes continuously, this indicates that the internal safety devices have cut in automatically. This may be caused by connection of loads that are in excess of the loads that can be handled by the Dimmer or by other malfunctions (see “Safety Devices”).

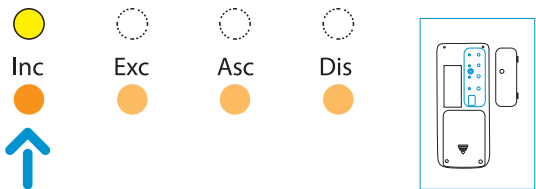
4. VITRUM IS INTELLIGENT

The product that you have purchased functions **INDEPENDENTLY**, but it also has a hi-tech “Wireless” technological heart. Thanks to **“Z-Wave”** Wireless technology, each Vitrum Wireless unit offers numerous advantages if connected as part of a network: it is possible to associate multiple Vitrum units, to construct scenarios, and to control lights using a remote control unit. If you connect Vitrum into a pre-existing z-wave net working with third parts devices, please refer to instruction and procedure of your remote control. Otherwise proceed as follows to **include** Vitrum to your Home Wireless Network:

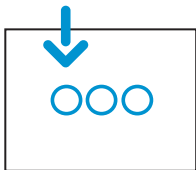
- Open the rear panel of the **HOME MASTER** remote handset.



- Press and hold down **“INC”** until the corresponding LED turns yellow, then release the button.



- Place the **HOME MASTER** remote handset near the Vitrum unit to be included in the network. Touch any of the keys on Vitrum to include the unit in the home wireless network.



Vitrum indicates that it has been connected to the network by flashing the yellow LEDs three times and switching on all the lights connected to the unit.

-
- When all the Vitrum units have been added to the network, press the **“INC”** key again until the LED switches off. Now you will see that the illuminated rings around the Vitrum touch keys no longer light red when changing from one status to the next.

NOTE

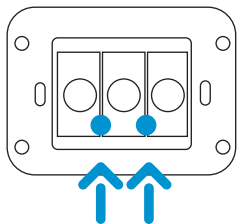
A Vitrum unit cannot be added to the network if it has already been included in a different network. In this case, it is necessary to perform the factory reset procedure > see Paragraph 8.

5. TYPE OF LAMP

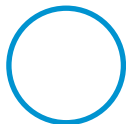
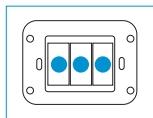
Low-voltage LED lamps and lamps with built-in dimmers adjustable from 0 to 10V must not be connected to our devices. Vitrum is designed to control most types of lamps – incandescent, halogen, LED spotlights and all lamps powered by 240V AC.

However, if the lamp is one of the latest types (such as a dimmable fluorescent lamp or a dimmable LED lamp), you will probably note that it lights intermittently. In this case, proceed as follows to modify the way in which the lamp is piloted:

- Remove the glass décor panel.
- Press and hold down the two service touch keys for at least 8 seconds and wait until the BEEP sounds twice to indicate that the system has entered the configuration **MENU**. The LEDs in the touch keys will begin to flash either blue or red, depending on the setting entered.

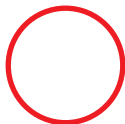


- Briefly press each of the buttons on the Vitrum unit to select the correct operating mode for the type of lamp connected.



FLASHING BLUE

for Trailing Edge loads



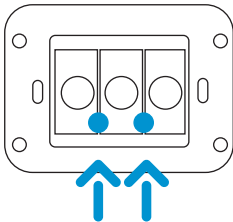
FLASHING RED

for Leading Edge loads

Each time the touch key is pressed, the cyclic status is 'toggled':

Leading Edge -> **Trailing Edge** -> **Leading Edge** ...

Vitrum returns to normal operation after 12 seconds of inactivity or if the two service touch keys indicated by the yellow arrows in the figure below are pressed briefly (0.5 seconds).



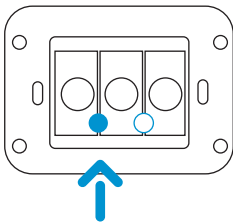
IMPORTANT

The default factory setting is Leading Edge.

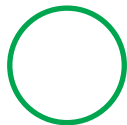
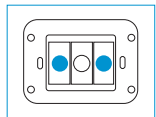
6. DISABLING “ECO” MODE

All Vitrum Wireless Dimmer units are supplied with the ECO function activated. If preferred, for Vitrum with 1 and 2 channel, proceed as follows to disable this function:

- Remove the glass décor panel.
- Press and hold down the **one of the two** service touch keys for at least 8 seconds and wait until the BEEP sounds twice to indicate that the system has entered the configuration MENU. The LEDs in the touch keys will begin to flash either green or blue, depending on the setting entered. The default setting for the flashing light is green since the factory setting is **Eco-Mode**.

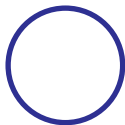


-
- Briefly press the touch key corresponding to the channels/ outputs on which to disable the ECO function.



FLASHING GREEN

Eco Mode enabled



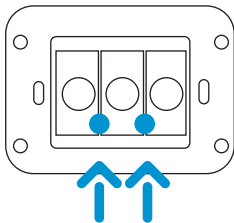
FLASHING BLUE

Eco Mode disabled

Each time the touch key is pressed, the cyclic status is 'toggled':

Enabled -> **Disabled** -> **Enabled**...

Vitrum returns to normal operation after 12 seconds of inactivity or if one of the two service touch keys indicated by the yellow arrows in the figure below is pressed briefly (0.5 seconds).



NOTE

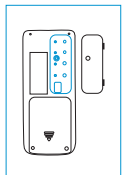
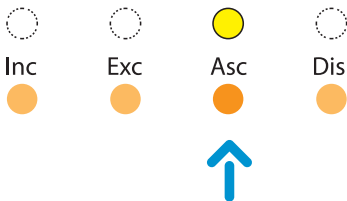
When **"Eco-Mode" is disabled**, the last light level to which the light was set before being switched off is stored in memory. When the light is switched on again, it will be set to the last level of brightness.

7. ADVANCED FUNCTIONS: CREATION OF CONTROL LOGIC

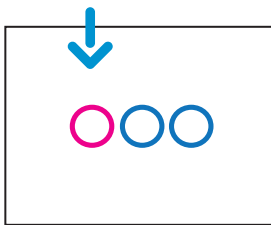
On all Vitrum Wireless units, it is possible to create control logic processes that associate the button on one Vitrum module to other buttons on **OTHER** Vitrum modules (up to a maximum of five). Every Vitrum Wireless Dimmer supports a number of groups equal to the number of the device's channels (=device's buttons); every single button/channel of a Vitrum has its own association group.

For creating a control logic, the modules must first be included in the home wireless network (see paragraph 4). Then proceed as follows:

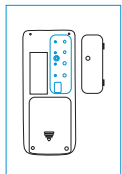
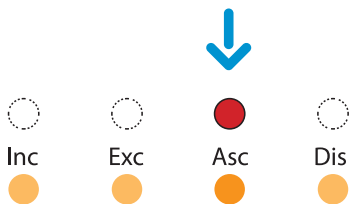
- Set the HOME MASTER remote handset to **association mode** by pressing and holding down the **"ASC"** button until the **YELLOW** LED lights. Then release the "ASC" button.



-
- Press the button corresponding to the button/channel of the Vitrum unit to which the lights to be controlled are physically connected. The LED corresponding to the selected button/channel will flash magenta until the 'association' process has been completed.



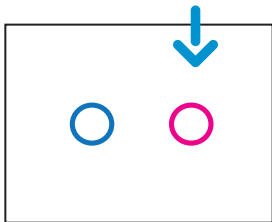
- On the HOME MASTER remote handset, press the 'association' touch key briefly. The LED will light red.



- Press the touch key on the Vitrum unit from which to control the lights connected to the buttons/channels of the Vitrum device(s) that have been selected previously. In this case, too, the corresponding LED will light magenta.

When carrying out these operations, it is necessary to position the remote handset in the vicinity of the wall units.

IMPORTANT: Associations are possible only between separate Vitrum modules. It is not possible to control more than one channel of a Vitrum device using a single touch key on the same Vitrum unit. A touch key on a Vitrum device can be associated with a maximum of other devices as below indicated. So the total number of touch keys that you can control is variable and depend on kind of association you make. For example:



associating a touch key to 10 Vitrum I means that you can control up to 10 other touch keys; but associating a touch key to 10 Vitrum IV means that you will be able to control up to 40 other touch keys. Vitrum touch key will lamp with red color if limit is exceeded.

In order to cancel associations that have been entered, simply perform the same procedure, though pressing the **"DIS"** key on the HOME MASTER remote handset instead of **"ASC"**.

Model	EU 1	EU 2	EU 3	BS 1	BS 2
Max. nr of Associations*	10	10	8	10	10

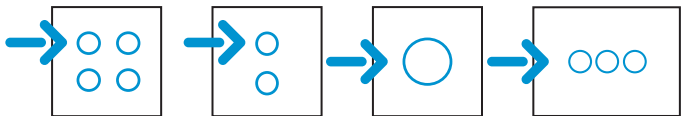
* If you are using a Router Home master, you have to decrease numbers of one unit.

8. FACTORY RESET

Proceed as follows to reset the Vitrum unit to the original factory settings:

A. **EXCLUSION** from the home network using the HOME MASTER remote handset:

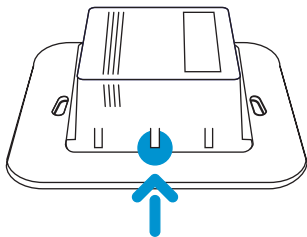
- Press **"EXC"** on the HOME MASTER remote handset and wait until the yellow LED lights.
- Press and hold down the leftmost touch key on the multi-channel Vitrum unit (**EU Standard**), or the topmost key (**BS Standard**), or the central key on single-channel units, for at least 8 seconds.



-
- Vitrum will flash red three times and sound an acoustic signal to indicate that the original factory setting has been restored.

B. FACTORY RESET a.using the hidden button

- Remove the Vitrum unit from the wall-mounting box.
- Press the hidden Factory Reset button and hold down for at least 3 seconds. Vitrum will flash red three times and sound an acoustic signal to indicate that the original factory setting has been restored.



9. PROTECTIVE DEVICES

The Vitrum unit is fitted with electronic protective devices that intervene in the event of malfunctions caused by:

- short circuits.
- current overload.
- incorrect association between the setting entered on the Vitrum unit and the type of light (see paragraph 5).

If one of these malfunctions should occur, the Vitrum unit will flash red.

If the problem is caused by a current overload, the Vitrum unit will not resume operation until normal working conditions have been restored.

In the event of a short circuit, Vitrum will disconnect the power supply to the actuators to which it is connected. However, the buttons will remain operative to that, once the cause of the short circuit has been eliminated, the lights can be switched on again.

In the event of incorrect association between the power supply mode and the type of light, Vitrum will automatically attempt to set the correct mode; if the problem persists when switching on again, please contact your local service centre.

10. SUPERVISION



If you have decided to activate the **HOME MASTER** supervision apps for iPhone® or iPad®, you will find that the **"identification"** function featured by every Vitrum unit is extremely useful. **"Identification"** status is indicated when all the illuminated rings light Magenta and begin to flash. This functional status is created directly by the supervision app as soon as the corresponding command is entered.



Download free **Home Master App** for your iPad® from the Apple Store.

11. COMPATIBILITY



All Vitrum Wireless devices are tested and certified to **Z-Wave** specifications and are designed to interact with certified Z-Wave products marketed by other manufacturers. Certified Z-Wave devices of different types or designed for other applications may be added to your home network; if these support the functions, they can also be used as repeaters to communicate with your Vitrum wireless units. In this way, your system can easily be extended to operate with different applications and thus to adapt to your specific needs.

12. COMPLIANCE WITH EC DIRECTIVES

All Vitrum Wireless units are built in compliance with the following European directives:
B.T.2006/95/CE, E.M.C.:2004/108/CE, R&TTE:1999/5/CE

The manufacturer assumes no responsibility for any use not indicated in this manual.

Think Simple reserves the right to modify its products at any time and without notice in order to better their quality and functionality.

Therefore, all the information given in this datasheet is to be considered subject to possible modifications. For this reason we invite you to check for update of Vitrum users guide at www.vitrum.com/eng/content/download

To discover further functions and products by
VITRUM please visit our site:

www.vitrum.com

MAIN TECHNICAL SPECIFICATIONS

Vitrum Dimmer Wireless

	Vitrum Dimmer 1 channel	Vitrum Dimmer 2 channels	Vitrum Dimmer 3 channels
Power supply	240V/50hz	240V/50hz	240V/50hz
Energy consumption	<1 w	<1 w	<1 w
Operating temperature	0-40° C	0-40° C	0-40° C
Total load capacity (all channels)			
• TRAILING EDGE mode (resistive loads)	Up to 300w/300 w	Up to 300w/150 w	Up to 300w/100 w
• LEADING EDGE mode (inductive loads)	Up to 200w/200 w	Up to 200w/100 w	Up to 200w/70 w
Wireless Z-Wave modem frequency	868,4 MHz	868,4 MHz	868,4 MHz
Z-Wave modem open air range of communication	20 mt	20 mt	20 mt
ECO-switch operating mode	YES	YES	YES
Short-circuit protection	YES	YES	YES
Overheating protection	YES	YES	YES
Automatic Trailing Edge/Leading Edge selection in case of thermal overload intervention	YES	YES	YES
Protection Rating	IP 40	IP 40	IP 40



by
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