USER GUIDE

The NodOn® in wall module allows to connect any wired electrical circuit (such as a wall switch + lamp(s) or power outlet) into an ÉnOcean® Smart Home network. Once mounted, the NodOn® in wall module will allow you to control your electrical installations or appliances through wireless and battery-less EnOcean® controllers or sensors

Indeed, the NodOn® in wall module can be controlled by different EnOcean® compliant emitters (Wall switch, remote controller, sensor, window handle, card switch or a home automation gateway).

INSTALLATION

Thanks to its small size, the in wall module can be installed everywhere in your wall or ceiling (behind an existing wired wall switch, behind a power outlet, in the suspended ceiling, etc...).



DANGER OF ELECTROCUTION

During the installation of the product, the supply voltage MUST BE DISCONNECTED. Please directly disconnect it from the breaker box to avoid any risk of electrocution.

If you're not confident about electrical installation, please ask a professional

The In-wall Module must be installed and connected following the diagram(s) presented in this user guide.

NodOn® will not be responsible for any loss or damage resulting from a none respect of the instructions of this user guide.

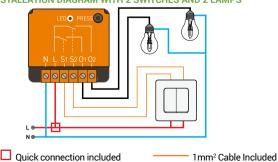
Please note that the LED will always be green as soon as the product is powered ON. Take care to turn OFF (Green LED OFF) the supply voltage before doing any modification on the circuit. IN-WALL MODULE TERMINALS EXPLANATION

LED PRESS

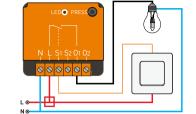
L - Terminal for the Line S1 - Input terminal for the wired Switch 1

S2 - Input terminal for the wired Switch 2 01 - Output terminal 1 controlled by S1 02 - Output terminal 2 controlled by S2

INSTALLATION DIAGRAM WITH 2 SWITCHES AND 2 LAMPS







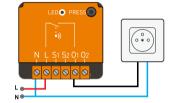
By default, any wired switch connected to the In-wall Module works as a « toggle switch » (« 2 ways switch ») with the EnOcean[®] emitter(s) paired with the module. Note: A « 2-States » mode can be set by a configuration parameter (Check your home automation gateway interface or the FEP for more details)

AUTO-DETECTION OF SWITCH CONFIGURATION

When you turn ON the supply voltage after set up the In-wall Module, please do a single push on the wired wall switch. An auto-detection will be made to know whether you're using mono-stable or bi-stable wall switch. Note: The same configuration is applied for both Switch 1 and Switch 2. It is not possible to have 2 different types of

wall switch wired to a single in-wall module. To perform a new auto-detection, the product must be manually reset.

INSTALLATION DIAGRAM WITH A POWER OUTLET



More diagrams available on the « Support » page of www.nodon.fr

IN-WALL MODULE MODES LOCAL CONTROL



The In-wall Module can be switched ON or OFF locally, through a short press on the local button. This action will toggle both \output at the same time.

PAIRING MODE

Two solutions are available to enter in pairing mode: Triple Press on the in-wall module local button.

The LED alows red

Which means that Channel #1 is in « Pairing mode ». Push once again on the button, then the Channel #2 is in « Pairing mode ». If you press again the local button, you will exit « Pairing Mode ».

OR

(If wired wall switch(es) are mounted on S1 and/or S2) Make a « triple push » on the wall switch's rocker related to the channel you want to put in « Pairing mode ». Please note S1 controls Channel 1 and S2 controls Channel 2.

Note: The NodOn® in-wall module supports the EnOcean® Remote Commissioning features. It can be put wirelessly into « Pairing mode » through a compatible home automation gateway.

Once the In-wall Module is in « Paring Mode », it will toggle ON/OFF (each second) the related outputs. Output1 will toggle when Channel #1 is in « paring mode »

Output2 will toggle when Channel #2 is in « paring mode » To pair an emitter, follow the « Pairing procedure as receiver » below. The LED will blink green to validate the pairing procedure.

If the LED blinks orange during « Pairing mode », it means that the memory of the In-wall Module is full, or that no emitter has been paired during the process. In case of full memory, please uppair an emitter before being able to pair a new one.

LED BEHAVIOUR DURING THE "LEARNING MODE":

« Learning Mode » status	LED Behaviour
Enter into « Learning Mode »	LED Blink Green 1 time + Glow Red
Change Channel 1 to Channel 2	Blink twice in GREEN and glow in RED
Device taught-in	Blink twice in GREEN
Device taught-out	Blink twice in RED
Stop « Learning Mode »	Blink twice in RED
Error during « Learning Mode »	Blink twice in RED
Memory is full (24 devices learnt)	Blink twice in ORANGE
« Learning Mode » timeout	Blink twice in ORANGE

FACTORY RESET

Press on the button for more than 5 seconds until the LED turn orange. Once the button is released, the LED starts glowing Orange. The product is entered into « Reset Mode ». In this mode, the product is waiting for an user validation, during 30 seconds. If vou do a single press, reset is validated.

The operation is acknowledged by a LED blinking red and green alternatively. If timeout occurs, LED stops glowing and no reset is performed.

PAIRING PROCEDURE AS RECEIVER

Wall Switch. Remote Controller. etc. EnOcean[®] Type "Rocker Switch" (EEP. F6-02-01)

To pair this type of emitter to the In-wall Module:

Put the In-wall Module in « Pairing mode ». Select the channel you want to pair.

Press any button of the emitter. The button pressed during the pairing process is the button which will switch ON the selected channel. The opposite button will switch OFF the selected channel. The other buttons of the emitter could be pair with the other channel of the In-wall Module. For example:

	Pairing Mode Usa		je
	Button paired during "Pairing mode"	Button pressed on the emitter	In-wall Module state (paired channel)
1@N)	•		ON
		0	OFF
	0	0	ON
			OFF
	+	+	ON
		-	OFF
		-	ON
	-		0.55

To uppair this emitter

 Put the In-wall Module in « Pairing mode ». Select the channel you want to unpair. Press any button of the emitter.

The emitter can't control the selected channel of the In-wall Module anymore.

Kev Card Activated Switch EnOcean® Type "Key Card Activated Switch" (EEP. F6-04-01)

To pair this type of emitter to the In-wall Module:

 Put the In-wall Module in « Pairing mode ». Select the channel you want to pair. 2 Insert or remove the card from the reader. The movement of the card done during the pairing process is the movement which will switch ON the selected channel. The opposite movement will switch OFF the selected channel.

It initialize the In-wall Module insert and remove (or remove and insert) the card.

	Pairing Mode	Usag	е
Πĥ	Movement done during « Pairing mode »	Card position	In-wall Module state (paired channel)
	INICEPT	INSERTED	ON
	INSERT	REMOVED	OFF
\searrow	REMOVE	REMOVED	ON
		INSERTED	OFF

To unpair this emitter. Put the In-wall Module in « Pairing mode ». Select the channel you want to unpair. Insert or remove the card. The emitter can't control the selected channel of the In-wall Module anymore.

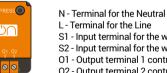


IN WALL MODULE - 2 CHANNELS



In-Wall module by NodOn®

Reference: SIN-2-2-00 Power supply: 230V AC +/-10% - 50Hz Self-consumption <1W Max. power. - 2 x 1050W continuous (Resistive load) - 2 x 1150W temporary (Resistive load) Radio frequency: 868MHz Range: Up to 40 meters Operational temperature: 0°C / 40°C Memory capacity: 24 emitters EEP (Profil EnOcean®): D2-01-12 Dimensions: 40 mm (l) x 44 mm (L) x 16.9 mm (h) Weight: 34 g Warranty: 2 years



Window Handle

EnOcean® Type "Window Handle" (EEP : F6-10-00)

To pair this type of emitter to the In-wall Module:

 Put the In-wall Module in « Pairing mode ». Select the channel you want to pair. Make the relevant movement with the handle according to your need. Check below table

Note: "Bottom hung" and "Open" position are identically considered

Open Bottom hung	Pairing Mode	Usag	e
Open Bottom hung	Movement done during « Pairing mode »	Handle position	In-wall Module state (paired channel)
		OPENED or BOTTOM HUNG	ON
1 (OPEN or BOTTOM HUNG	CLOSED	OFF
U	CLOSE	CLOSED	ON
Close	CLUSE	OPENED or BOTTOM HUNG	OFF

To unpair this emitter

Put the In-wall Module in « Pairing mode ». Select the channel you want to unpair. Make any kind of movement with the handle. The emitter can't control the selected channel of the In-wall Module anymore.

Opening sensor EnOcean® Type "Magnetic Contact" (EEP : D5-00-01)

To pair this type of emitter to the In-wall Module:

1 Put the In-wall Module in « Pairing mode ». Select the channel you want to pair. 2 Press on the « learning » button of the opening sensor. The position (close or far) of the magnet from the sensor when the « learning » button is pressed is the position which will switch ON the selected channel. The opposite position will switch OFF the selected channel. Check the table below.

learning	Pairing Mode	Usac	e
S.	Magnet position when the « Learning » button is pressed	Magnet position	In-wall Module state (paired channel)
	CLOSE	CLOSE	ON
	CLUSE	FAR	OFF
N. W.	FAR	FAR	ON
close		CLOSE	OFF

To unpair this emitter

Put the In-wall Module in « Pairing mode ». Select the channel you want to unpair. Press on the « learning » button. The emitter can't control the selected channel of the In-wall Module anymore.

Motion sensor

EnOcean® Type "PIR Sensor" (EEP: A5-07-01 / A5-07-02 / A5-07-03 / A5-08-01 / A5-08-02 / A5-08-03)

To pair this type of emitter to the In-wall Module:

1 The status of the In-wall Module (ON or OFF) chose before put in « Pairing mode » will be associate to a presence detection.

2 Put the In-wall Module in « Pairing mode ». Select the channel you want to pair. OPRESS ON THE « learning » button of the opening sensor.

When a presence is detected, the selected channel will be in the state (ON or OFF) defined at step 1.

When no presence is detected, the selected channel will be in the opposite state. Check the table below.

	Pairing Mode	Usage	
*	In-wall Module state before "pairing mode"	Sensor status	In-wall Module state (paired channel)
	ON	PRESENCE	ON
		NO PRESENCE	OFF
	055	NO PRESENCE	ON
	OFF	PRESENCE	OFF

To unpair this emitter.

Put the In-wall Module in « Pairing mode ». Select the channel you want to unpair. Press on the « learning » button.

The emitter can't control the selected channel of the In-wall Module anymore.

Dry contact sensor

EnOcean® Type "Dry Contact" (EEP : A5-10-0A / A5-10-0B / A5-14-01 / A5-14-02 / A5-14-03 / A5-14-04)

To pair this type of emitter to the In-wall Module:

1 The status of the In-wall Module (ON or OFF) chose before put in « Pairing mode » will be associate to a presence detection.

Put the In-wall Module in « Pairing mode ». Select the channel you want to pair. OPRESS ON THE & LEARNING & BUTTON OF THE dry contact sensor.

When the contact is closed, the selected channel will be in the state (ON or OFF) defined at step 1.

When the contact is open, the selected channel will be in the opposite state. Check the table below

,	Pairing Mode	Usao	e
\bigwedge	In-wall Module state before « Pairing mode »	Contact status	In-wall Module state (paired channel)
1/		CLOSE	ON
	ON	OPEN	OFF
	055	OPEN	ON
OFF	CLOSE	OFF	
to all the second as any			

To unpair this emitter. Put the In-wall Module in « Pairing mode ». Select the channel you want to unpair. Press on the « learning » button.

The emitter can't control the selected channel of the In-wall Module anymore.

PAIRING PROCEDURE AS EMITTER

When wired wall switch(es) are connected to S1 and/or S2 inputs the wall switch(es) can then act as an EnOcean® emitter (sending RPS telegrams) It means that once set-up, the wired wall switch(es) can controlled the in-wall module on which they are plugged and any other EnOcean® compatible receivers wirelessly, such as the NodOn® Smart Plug.

To pair the In-wall Module with another receiver.

1 Put the receiver in « Pairing mode » (Ex: Smart Plug...).

On a single push on the wired wall switch's rocker you want to pair with the receiver.

The status (ON or OFF) of the related output of the In-wall module (O1 or O2) at the end of the pairing process with define the « ON » state of the paired receiver.

Example

If you want your receiver to be synchronized with your In-wall Module. pair the rocker by switching ON the related output.

If you want your receiver to be desynchronized with your In-wall Module, pair the rocker by switching OFF the related output. Details and video example on www.nodon.fr

To unpair the In-wall Module with another receiver.

1 Put the receiver in « Pairing mode ».

2 Do a single push on the wired wall switch's rocker paired with the receiver.

HOME AUTOMATION GATEWAY

Pair the In-wall Module with a Home Automation gateway

The NodOn® In-wall Module can be controlled by an EnOcean® compliant Home Automation gateway.

For the pairing process of the In-wall Module with the gateway, please refer to the user guide of your Home Automation gateway.

Below, a standard learning process:

Put your gateway in learning mode

2 Put the In-wall Module in « Pairing mode ».

Note: No need to select channel the gateway will learn both channel during the same procedure

It interface of your gateway will confirm the success of the pairing process. Note: To unpair the In-wall Module, the procedure is the same. Find the list of the supported Home Automation gateway on ; www.nodon.fr - "Support" section.

PARAMETERS OF THE IN-WALL MODULE

The NodOn® In-wall Module is bi-directional and follows the D2-01-12 EnOcean® Equipment Profile (FEP)

PARAMETERS	D2-01-12
No. of output channels	2
Switching	X
Local Control	x
2 States	x
External Switch/Push Button Type	X
Auto OFF Timer	x
Delay Radio OFF Timer	x
Taught-in devices enable/disable	x
User interface day/night mode	x
Default state configurable	x
DEFAULT PARA	METERS
PARAMETERS	Default
Local Control enable/disable	Enable
2 States	Toggle Switch
Taught-in Devices enable/disable	Enable
User interface day/night mode	Day
Default state configurable	Previous State
External Switch/Push Button Type	Auto-detect
Auto OFF Timer	Timer disable
Repeater enable/disable	Disable

PARAMETERS PRESENTATION

Switching:

This option is to switch ON or OFF the In-wall Module. If : Output value = (0x00) the In-wall Module is switched OFF

• Output value from (0x01) to (0x64), the In-wall Module is switched ON.

The In-wall Module doesn't have any dimming function.

Local control:

This option is to activate or deactivate the local control of the In-wall Module and on the wired switch connected.

In both case, we can always access to the « Pairing mode » and « Factory Reset ». Taught-in devices:

If the parameter is activated, all the emitters paired to the In-wall Module can control it. If the parameter is deactivated, only the Home Automation gateway can control the In-wall Module.

User interface day/night mode:

If the parameter is set to "Day", the LED will be green when the In-wall Module is Power On

If the parameter is set to "Night", the LED will be OFF whatever the In-wall Module is powered or not. Except for "Learning Mode" and "Reset" glowing, WARNING. once changed, this parameter does not allow anymore to see if the module is nowered ON

Default State:

This parameter allows defining the state of the In-wall Module after a power outage.

External Switch/Push Button Type

This option is to selected the type of the wired switch (Mono-stable or bi-stable). By default the In-wall Module is configured to detect this mode by itself. Same option is applied for both wired switches.

Auto OFF Timer

When timer is activated with valid value (0.1 to 3600 sec), each time an output channel is set ON, it will be automatically set OFF when timer elapsed.

Delay Radio OFF Timer

When delay timer is activated with valid value (0.1 to 3600 sec), each time an output channel is set OFF by radio, it will be delay the action OFF of the time value choose.

Repeater enable/disable

When enable, the In-Wall Module can repeat a message not addressed to him. and increase range by creating network grid between all your EnOcean® devices.

Repeater Level

To activate this option please check on your gateway or contact NodOn for assistance

SUPPOR	TED PROFILI	ES (EEP)	
F6-02-01	F6-04-01	F6-10-00	
D5-00-01	A5-07-01	A5-07-02	
A5-07-03	A5-08-01	A5-08-02	
A5-08-03	A5-10-19	A5-10-18	
A5-10-1A	A5-10-1B	A5-10-1C	
A5-10-1D	A5-10-01	A5-10-05	
A5-10-08	A5-10-0C	A5-10-10	
A5-10-13	A5-10-16	A5-10-17	
A5-10-0A	A5-10-0B	A5-14-01	
A5-14-02	A5-14-03	A5-14-04	

DECLARATION OF CONFORMITY

EN 60669-1:1999+A1:02+A2:08 - EN 60669-2-1:2004+A1:09+A12:10 EN301489-1 V1.9.2 - EN301489-3 V1.6.1 EN300220-2 V2.4.1 2012/19/EC WEEE Directive

CE declaration: www.nodon.fr/support/NodOn InWallModule EnOcean CE.pdf

PICTOGRAM

This product is compliant with all relevant European standards.

- When sorting your waste, please observe the disposal regulations X
 - in force. Please place your waste in the facilities provided for that purpose and with all due respect for the environment.

This product must be used indoor only. ĺп

CH = Channel



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This product is compliant with EnOcean® radio protocol. enocean

CONTACT

NodOn® by ID-RF: ID-RF SAS 121 rue des Hêtres 45590 St CYR EN VAL (FRANCE)

AFTER SALES

www.nodon.fr section "support" contact@nodon.fr For user guides in other languages, please visit www.nodon.fr/notices