



PAIROT

Project editing
HOWTO

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More information can be found at www.xxter.com/pairot

Welcome

With Pairot, from xxter, you can control the KNX installation with HomeKit or Amazon Alexa.

This “HOWTO” document explains the Pairot project configuration for the installation professional, as a supplement to the manual. This document expects the installation professional, who has knowledge of the KNX home automation protocol, to be responsible for the KNX installation.

Before performing the Pairot project configuration, it is required that the professional has performed the product registration.

For more information, please visit www.xxter.com/pairot.

Project configuration overview

A project consists of components. Every component has a type, a name and group addresses to identify the component. The type of the component has to correspond with the characteristics of the home-automation component that is used.

The name of a component is important for identification by the end-user, so he or she understands which component was intended, for instance 'Kitchen table ceiling light'.

For the technical identification of the component, group addresses are used:

- The sending group contains the group address to which a telegram should be sent. There is a maximum of one sending group address per component
- The status group(s) contains one or more group addresses to display the status of that component. Often the sending group address is also a status group.

For the configuration of pairot, the KNX group addresses will have to be transferred into the project. The easiest way to do this, is by exporting the KNX configuration in ETS as a 'KNXproj' extraction and then import it in the project in my xxter:

<http://www.xxter.com/myxxter>

To import the 'KNXproj' extraction, open the Pairot project you want, select the *Components* tab and click the *Edit* button. Click *Import KNXproj file* and follow the import wizard.

Transferring a component

To transfer a component from the KNXproj export to the Pairot project, select the desired main, middle or sub group on the left-hand side panel. When selecting a main or middle group all components of the correct datatype will be added from those groups.

In the right-hand side panel select the type of component you want to add in the pulldown menu. Also, enter the appropriate status group of the component(s). For instance, you can use “0/0/+2” to add a status sub group of +2 which will result for the component “0/3/1” to receive a status group “0/3/3”.

The screenshot displays the software interface for transferring components. On the left, the 'Groupaddresses' panel shows a tree view with '0/3 - Gang' selected. The 'Buildings' panel has a filter box. The 'Import KNXproj file' panel shows the following configuration:

- Selected: 0/3 - Gang
- Name: Sub-group name
- Send: 0/3//*
- Status: *depending on group*
- Add additional status group
- 0/3/+2
- No group
- Group by main and middle groups
- Group by building plan
- Group manually
- Group name: []
- Add as: Dimmer
- Add

Please note: every type of component in the Pairot project requires group addresses to have the correct datatype. Components that are incomplete or have an incorrect type will not be accepted and cannot be loaded onto the Pairot device or used in HomeKit or Alexa. Components with errors will be shown with a red exclamation mark and are streaked out.

Dimmer	Hål hanglamp	!	1/0/0	1/0/4, 1/0/2
	Switching	!	1/0/0	1/0/3, 1/0/0

Switch contact

A switch contact requires a one bit switching (DPT 1.x) sending group and one or more similar type status group addresses.

Type	Name	Sending Group	Status Group(s)	Delete
Switch contact	Hallway lamp	0/4/7	0/4/7, 0/4/8	✕

Dimmer

A dimmer requires a one byte scaling (DPT 5.001) sending group for 0-100 values and a one bit switching (DPT 1.x) sending group. Both require one or more similar type status group addresses.

Dimmer	Hallway spots	0/3/2	0/3/4, 0/3/2	✕
	Switching	0/3/0	0/3/3, 0/3/0	

Blind

A blind requires a one bit switching (DPT 1.x) sending group for up/down movement and a one byte scaling (DPT 5.001) sending group for 0-100 values for the position. Both require one or more similar type status group addresses and an additional one bit switching (DPT 1.x) for the start/stop status.

Blind	Curtains	2/1/116	2/1/116, 2/1/119	✕
	start/stop		2/1/55	
	position (%)	2/1/120	2/1/120, 2/1/123	

Temperature (HomeKit only)

A temperature requires a two-byte (DPT 9.001) status group address for the corresponding floating-point value.

Temperature	Living room	2/2/17	✕
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Light intensity (HomeKit only)

A light intensity requires a two-byte (DPT 9.004) status group address for the corresponding floating-point value.

Light intensity	Outside light east	2/4/7	✕
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Humidity (HomeKit only)

A humidity requires a two-byte (DPT 9.007) status group address for the corresponding floating-point value.

Humidity	Living room humidity	2/2/18	✕
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Occupancy sensor (HomeKit only)

An occupancy sensor requires a one bit switching (DPT 1.x) status group address.

Occupancy Sensor	Bathroom	2/1/7	✕
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Motion sensor (HomeKit only)

A motion sensor requires a one bit switching (DPT 1.x) status group address.

Motion Sensor	Garden	0/5/2	✕
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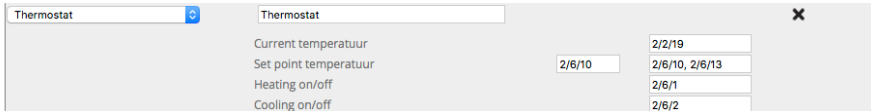
Push button (HomeKit only)

A push button requires a one bit switching (DPT 1.x) sending group and one or more similar type status group addresses.

Push button	Kitchen light switch 1	1/4/7	1/4/7, 1/4/8	✕
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Thermostat

A thermostat requires a two-byte (DPT 9.001) sending group address to set the floating-point value of the temperature and one or more status group addresses of the same type. Additionally, a two-byte (DPT 9.001) status group is required for the floating-point value of the current temperature and two one bit (DPT 1.x) status group addresses for the current heating and cooling statuses.

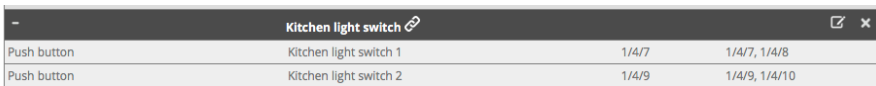


The screenshot shows a configuration window for a thermostat. It has a title bar with 'Thermostat' and a close button. The main area contains the following fields:

Current temperatuur		2/2/19
Set point temperatuur	2/6/10	2/6/10, 2/6/13
Heating on/off		2/6/1
Cooling on/off		2/6/2

Linking

Components that belong to one device, should be linked together. This can be done by creating a linking group (via *Add group*) and moving the components to that the group.



The screenshot shows a configuration window for a linking group named 'Kitchen light switch'. It has a title bar with a minus sign, the name, a link icon, and a close button. The main area contains a table with two rows:

Push button	Kitchen light switch 1	1/4/7	1/4/7, 1/4/8
Push button	Kitchen light switch 2	1/4/9	1/4/9, 1/4/10

Service and support

In case of problems or questions, please always contact the installation professional of your KNX installation first.

Answers to frequently asked questions can be found on:

<http://www.xxter.com/faq>

On our forum you can exchange information with other users:

<http://www.xxter.com/forum>

Additional support can be found on:

<http://www.xxter.com/support>

In case you are unable to resolve the issue here, you can contact us on support@xxter.com. Please always include the serial number of the device it concerns.