Control Unit C4 (Series 2)
Zigbee and Bluetooth

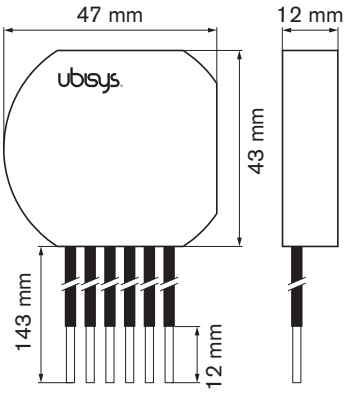
Item No.: 1120

Specifications
The C4 is a wireless control unit with four universal inputs for controlling other smart home components. In the current in-wall version, it is compatible to every standard in-wall mounted housing. It is not only suitable for new buildings but also for renovations – for due to the use of radio technology, retrofitting with ubisys components has no special requirements for the electrical installation. The Control Unit C4 offers full functionality when combined with other components of the ubisys Smart Home product line or other Zigbee systems and allows for example:

- Freely configurable assignments between control elements and electrical consumers
- Zigbee router integrated
- Integration in scenes and group controlling
- Interoperable with many Smart Home systems of other manufacturers
- Can be connected to switches and motion sensors

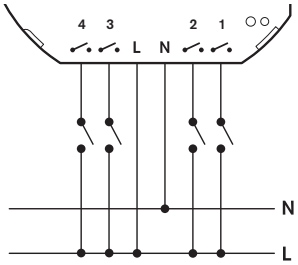
Note:
The Control Unit C4 is to be considered as an additional option, which provides additional inputs. The components D1(-R), S1-R, S2(-R), J1(-R) already have two inputs.

Dimensions



Installation
The Control Unit C4 is designed for installation in flush mounted sockets according to DIN 49073. For installation behind a switch, the use of deep sockets is recommended.

Leads:



When connecting the Router R0 the included push-wire terminals can be used.

Zigbee Initial Commissioning via Gateway or Hub
1. Connect the unit to a power source (according to the leads).
2. Open a Zigbee network: when using the ubisys gateway, tap **Configuration** -> **Basic Configuration** -> **Open for new devices** in the ubisys app (if you are using third-party gateways or apps, follow the corresponding procedure).
3. The Zigbee network is open and the device joins.
4. The device appears in the component list: **Configuration** -> **Basic Configuration** -> **Components**.

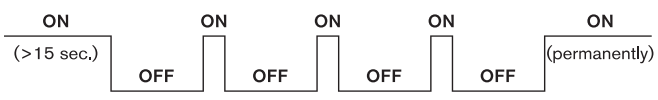
Zigbee Direct (Bluetooth) Initial Commissioning – without Gateway or Hub
Zigbee Direct allows for integration and control of Zigbee devices directly via Bluetooth. With Zigbee Direct, users can seamlessly interact with their Zigbee networks via smartphone, tablet or other Bluetooth-enabled devices:

1. Connect the unit to a power source (according to the leads).
2. When using the ubisys iOS app, tap on **Settings** -> **Facilities** -> **Pen top right** -> **New Facility** -> **Create via Bluetooth**.
3. Select the R0 from the list of available components.
   Note: The last four digits of the serial number are displayed.
4. Confirm the creation of a new system with this device.
5. Under **Configuration** -> **Basic configuration** -> **Components** the virtual gateway will be displayed together with the R0.

Note:
Zigbee Direct supports many commissioning options and is an open standard. Zigbee Direct also allows further settings, such as the configuration of inputs, links, groups and scenes, in third-party systems that do not provide these functions themselves. It is also possible to update the firmware this way. Just one Zigbee Direct device in the network is sufficient to set up and control all the other Zigbee devices.

Factory Reset
Via Power-Cycle Sequencing: To reset the device to factory settings without directly accessing the device itself (only the power supply), follow this on/off sequence:

1. Power on for **at least 15 seconds**.
2. Power off for **at least 15 seconds**.
3. Power on for **at least 0.5 seconds** but no more than **2 seconds**.
4. Repeat steps 2.-3. three more times (**four times in total**). The final power-on must last at least 30 seconds until the device resets and restarts (see step 5.).



5. The device will automatically reboot to the original factory settings.

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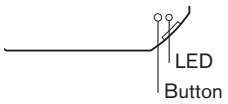
Via button on the device: To reset the device to its factory fresh settings (e.g. in order to join it to another network afterwards), press the button in the larger of the two holes on the front for more than 10 seconds until the LED starts flashing rapidly.
Only use the electrically isolated tool provided with the device to press the button in the hole.



Configuration

The C4 control unit has four inputs that can be individually wired with switches, push-buttons and motion detectors. Every single input can be configured individually and can be used to control smart home components.
For integration into the smart home radio network, the control unit C4 has to be configured first. Direct access to the control unit C4 is not necessary for configuration. That means that network configuration can also be done after successful electrical installation.
It is best to hold the 16 digit serial number of the control unit C4 in the construction plan during installation. This allows you to allocate the device at a later point.
When connected to power, the control unit C4 automatically logs into the Zigbee network. After that it can be configured via the ubisys app.
More information about adding and configuring ubisys smart home components can be found in the ubisys app manual.

Technical Information

Rated voltage	90-250 V~, 50/60 Hz
Power consumption	~0.1 W
Radio technology	Zigbee 3.0 in 2.4 GHz ISM Band, IEEE 802.15.4 channels 11-26, 10dBm transmitting power, Bluetooth 5.3 (Low Energy). The RF max output power is less than 13dBm. Radio frequency range: Bluetooth (BLE): 2402-2480 MHz, IEEE 802.15.4 (Zigbee): 2405-2480 MHz
Environment temperature	-20°C - +45°C

Certifications and Environmental Contribution

zigbee certified product Bluetooth CE

CAUTION!
- Danger of electrocution. Mounting/installation of the device to the power grid has to be performed with caution, by a qualified electrician. There is a risk of electric shock. Electrical shock can result in death.
- Before starting the mounting/installation of the device, check that the breakers are turned off and there is no voltage on their terminals. This can be done with a mains voltage tester or multimeter. When you are sure that there is no voltage, you can proceed to connecting the wires.
- Even unconnected ports can carry threatening voltages.
- Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the device terminals.
- Do not use the device if it shows any sign of damage or defect.
- Do not open the device. It does not contain any parts that can be maintained by the user. For safety and licensing reasons, unauthorized change and/or modification of the device is not permitted. Opening the unit or other devices voids the warranty.
- Use the device only with a power grid and appliances that comply with all applicable regulations. A short circuit in the power grid or input circuits may damage the device!.
- No SELV/PELV circuits may be connected to the terminals of the inputs and outputs, including the extension inputs.
- Connect the device only in the way shown in these instructions. Any other method could cause damage and/or injury.
- The device is intended for indoor use only.
- Keep the device away from liquids and moisture. Do not use the device in places with high humidity.
- The device can control electric circuits and appliances wirelessly. Proceed with caution! Irresponsible use of the device may lead to malfunction, danger to your life, or violation of the law.
- The device has to be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 16 A rated current, min. 6 kA interrupting rating, energy limiting class 3).

ATTENTION!
Do not use buttons or switches with built-in LED or glow-lamp!

RECOMMENDATION
Connect the device using solid single-core wires or stranded wires with ferrules.

NOTE
The information in this document refers to the „Series 2“ of the C4 with Zigbee and Bluetooth.

Conformity

This device complies with the applicable directives and standards of the EU. There is no restriction to use this product across the EU countries.
Hereby, we ubisys technologies GmbH declare that this switching actuator is in compliance with the essential requirements and other relevant provisions of directive 2014/53/EU. The declaration of conformity may be consulted at https://www.ubisys.de/downloads/ubisys-c4-technical-reference.pdf.

Manufacturer

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Designed and engineered in Germany.
Assembled in China.