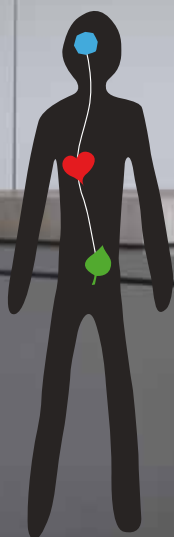


niko
Illuminating ideas.

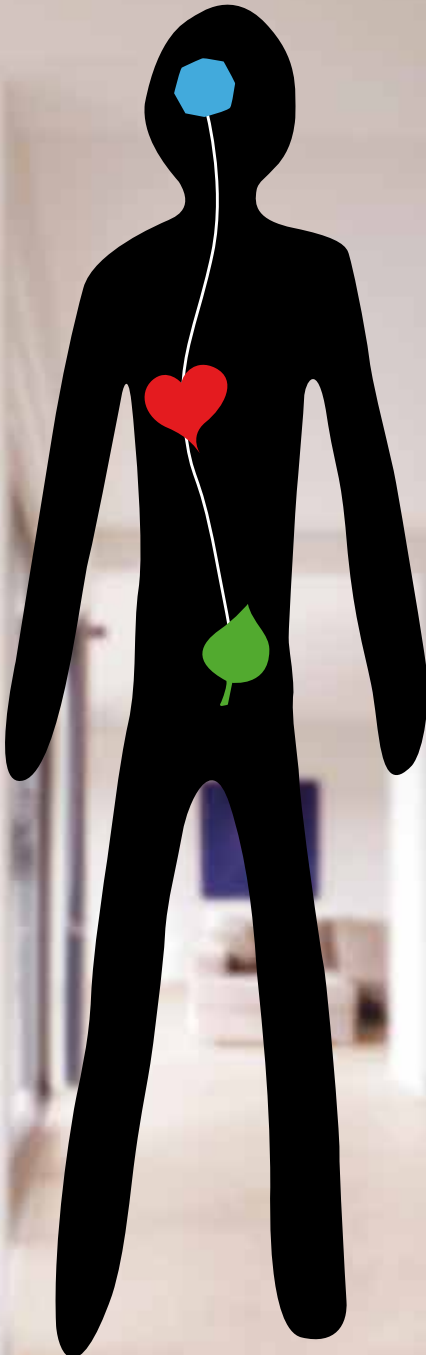
General catalogue

2011 - 2012

Export



Niko Home Control

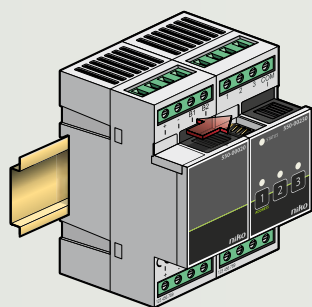


Niko Home Control

Niko Home Control (available from 1 August 2011)

Live it, love it

Niko Home Control is a modern electrical installation allowing users to operate all functions from one central location, and to monitor – and possibly reduce – their energy use. The way to create a more safe and comfortable home environment!



NIKO HOME CONTROL – THE INSTALLATION

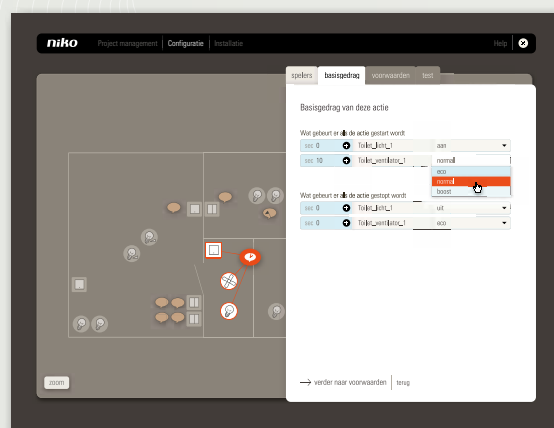
- 2-wire non-polarised cabling to all controls
- free topology with standard wiring
- neatly arranged set-up, requires minimal space in the electrical cabinet
- minimal cabling in the electrical cabinet; modules are connected via a unique sliding contact
- minimal programming required; each function has a dedicated module
- low-power system
 - the installation itself only uses a minimal amount of energy
 - the modules have an longifespan through reduced heat emission in the electrical cabinet

EASY AND QUICK INSTALLATION PROCESS

- simple connection via 2-wire non-polarised cabling
- touchscreen connection only requires 1 cable
- wall-mounted printed circuit board concept only requires 1 flush-mounting box, even for multiple controls

USER-FRIENDLY PROGRAMMING

- graphical visualisation of the installation via programming software
- floorplan can be loaded into the software or can be redrawn
- library of preprogrammed instructions included in the software
- programming back-up stored within the installation





Niko Home Control

IMPROVED FUNCTIONALITY FOR END-USERS



reddot design award
product design 2011

- user-friendly operation via push buttons, display, touchscreen and smartphone
- central control of all functions, such as lighting, ventilation, heating, automated roll-down shutters and sunblinds, burglar alarms, etc.
- measures energy use and energy production (of e.g. solar panels)
- the installation provides insight into the end-user's energy consumption and includes a number of energy-saving options, such as zone-based heating and energy consumption display
- the installation itself only uses a minimal amount of energy
- switching and dimming of new lamp types, such as dimmable compact fluorescent lamps and dimmable LED lights
- flexible installation, low-threshold:
 - customers select the functions to be included in their Niko Home Control installation
- compact Niko Home Control modules require minimal space in the cabinet
- end-users maintain ultimate control over their installation by selecting different settings and preferences (e.g. how long the driveway lights should stay on after they have left the property)

TIMELESS DESIGN

- controls available in any Niko finish
- the Niko Home Control touchscreen perfectly matches the design of the controls





Controller

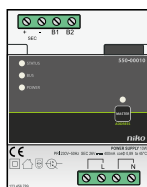
The central control unit of Niko Home Control is essential and controls the entire installation. This module is required in every system for programming purposes. It includes a test button to verify the proper functioning and status of all other modules. The program key allows you to manually program the basic functions such as lighting and roller blinds, without computer. All system data are centrally stored in the module.

A Niko Home Control installation manual and additional information are provided together with the controller.

- RJ45 connection for PC programming
- program key
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60°C
- dimensions: 2U
- CE compliant

Complete unit

Controller	550-00001	Pack: 1
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Power supply

The power supply module provides 26V to the modules and control units. By pressing the push button, you can select one master power supply module if the system includes several different ones. Please refer to the manual for more information concerning the required number of power supply modules. Power, status and bus activity are LED-indicated.

- input voltage: 230V AC
- output voltage: 26V DC, 400mA
- power: 10W
- 4 connection terminals to connect the module to the other DIN rail
- sliding contact to connect the module to other modules on the DIN rail
- SELV
- ambient temperature: 0 to 45°C without derating
- dimensions: 4U
- CE compliant

Complete unit

Power supply	550-00010	Pack: 1
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Rail coupler

This module is always mounted first on the left at the start of a new row of DIN rail modules. Connect the power supply and bus to railcoupler on next DIN-rail through the contacts at the top and bottom.

- 2 x 4 connection terminals to connect to railcoupler on next DIN rail
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60°C
- dimensions: 2U
- CE compliant

Complete unit

Rail coupler	550-00020	Pack: 1
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IP interface

The IP interface connects the Niko Home Control system to a local IP network via the RJ45 connection at the bottom of the module. Possible applications: linking touch screens, external IP systems (such as Wi-Fi routers for smartphone-controlled operations), IP audio systems and PC networks for user software applications. The IP interface is also required for logging data from the electricity measuring module and data from the pulse counter.

- RJ45 connection at the bottom of the module to connect the module to an IP network
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60°C
- dimensions: 2U
- CE compliant

Complete unit

IP interface	550-00508	Pack: 1
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Splitter module

This module is used to split one system into several subsystems. These subsystems are interlinked via the IP port on the splitter module.

- RJ45 connection at the bottom of the module to connect the module to an IP network
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60°C
- dimensions: 2U
- CE compliant

Complete unit

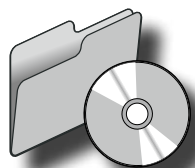
Splitter module	550-00509	Pack: 1
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Programming software

You program the installation with the programming software. This software is user-friendly, intuitive and structured very visually. The software is to be downloaded from www.nikouk.com.

PC: minimum configuration: Pentium IV, 1Gb RAM. Compatible with Windows XP SP2 or a more recent version.

Mac: minimum configuration: Core duo, 1Gb RAM. Compatible with OS X 10.5 or a more recent version.

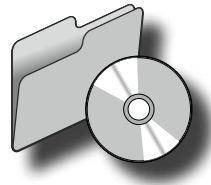


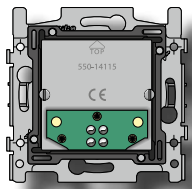
User software

With this software, the resident easily changes certain settings himself, such as time schedules and setting preferences. The software is to be downloaded from www.nikouk.com.

PC: minimum configuration: Pentium IV, 1Gb RAM. Compatible with Windows XP SP2 or a more recent version.

Mac: minimum configuration: Core duo, 1Gb RAM. Compatible with OS X 10.5 or a more recent version.





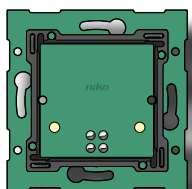
Simple wall-mounted printed circuit board with bridge

The wall-mounted printed circuit board enables you to connect a control unit to the installation. It is mounted onto an existing flush-mounting box or on very uneven walls. Several wall-mounted printed circuit boards with bridge can be clicked together. The wall-mounted printed circuit board with bridge can be used in combination with all Niko flush-mounting frames.

- dual input connector: possible connection of 2 wires per plug-in terminal, each with a diameter of 0.5mm to 1.5mm
- wall mounting: screws or claws
- mounting push button: click mechanism

Complete unit

Simple wall-mounted printed circuit board with bridge	550-14115	Pack: 1
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Simple wall-mounted printed circuit board with connector

The wall-mounted printed circuit board allows you to connect a control unit to the installation. The wall-mounted printed circuit board with dual input connector is mounted onto a simple flush-mounting box with screw connection. A set of claws for boxes with no screw connection can be ordered separately.

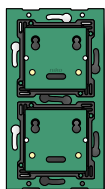
- dual input connector: possible connection of 2 wires per plug-in terminal, each with a diameter of 0.5mm to 1.5mm
- wall mounting: screws or a set of claws
- mounting push button: click mechanism

Complete unit

Simple wall-mounted printed circuit board with connector	550-14110	Pack: 1
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Accessories

Set of claws for wall-mounted printed circuit board	450-00067	Pack: 20
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Wall-mounted printed circuit board to be used with connection unit

The wall-mounted printed circuit board is mounted onto a simple flush-mounting box with screw connection. No additional flush-mounting boxes are required for the assembly of multiple flush-surround plates. You can work from either direction of the flush-mounting box, i.e. bottom, top, left or right, which allows you to expand push buttons without the need for additional drilling or channelling work. A set of claws for boxes with no screw connection can be ordered separately. Please note: Order a connection unit with every order for wall-mounted printed circuit boards as this is what provides the connection between the wall-mounted printed circuit board and the system.

- mounting push button: click mechanism
- wall mounting: screws or a set of claws

Wall-mounted printed circuit boards

Double wall-mounted printed circuit board (centre distance 71mm, horizontal)	550-14020	Pack: 1
Double wall-mounted printed circuit board (centre distance 60mm, vertical)	550-14021	Pack: 1
Double wall-mounted printed circuit board (centre distance 71mm, vertical)	550-14027	Pack: 1
3-fold wall-mounted printed circuit board (centre distance 71mm, horizontal)	550-14030	Pack: 1
3-fold wall-mounted printed circuit board (centre distance 60mm, vertical)	550-14031	Pack: 1
3-fold wall-mounted printed circuit board (centre distance 71mm, vertical)	550-14037	Pack: 1
4-fold wall-mounted printed circuit board (centre distance 71mm, horizontal)	550-14040	Pack: 1

Connection unit for multiple wall-mounted printed circuit board

The connection unit connects the installation to the multiple wall-mounted printed circuit board. This unit can be mounted into any position. The connection unit is required for multiple wall-mounted printed circuit boards. Please note: Use a different set of claws.

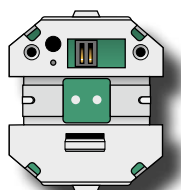
- dual connector: possible connection of 2 wires per plug-in terminal, each with a diameter of 0.5mm to 1.5mm
- mounting on wall-mounted printed circuit board: 2 screws

Complete unit

Connection unit for multiple wall-mounted printed circuit board	550-14090	Pack: 1
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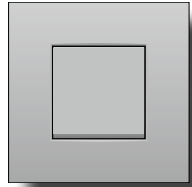
Accessories

Set of claws for connection unit	450-00068	Pack: 20
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Simple lighting control

This push button allows the end-user to control 1 operation.
The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.

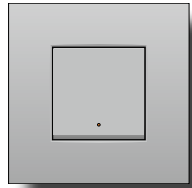


Simple key

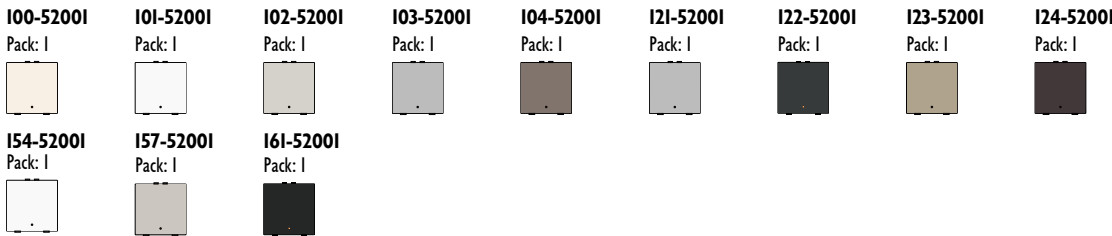


Simple lighting control with LED

This push button allows the end-user to control 1 operation.
An LED in the key indicates the status of the control.
The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.

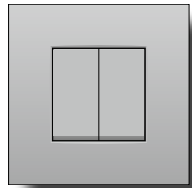


Simple key



Double lighting control

This push button allows the end-user to control 2 operations.
The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.

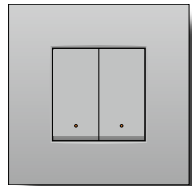


Double key

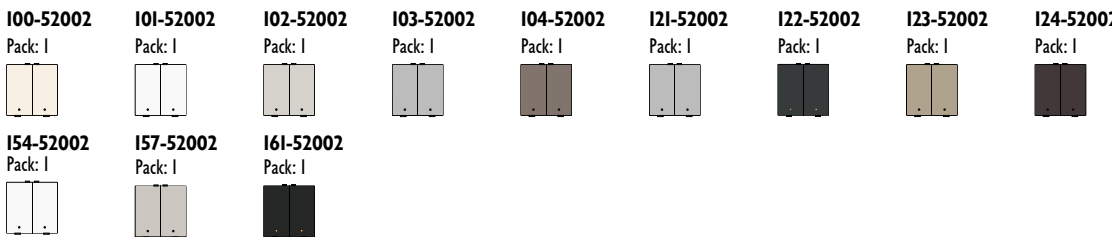


Double lighting control with LED

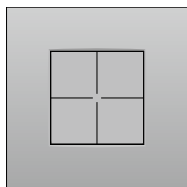
This push button allows the end-user to control 2 operations.
An LED in the key indicates the status of the control.
The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.



Double key



Flush surround plates to be ordered separately. Drawings finished products purely illustrative!



4-fold lighting control

This push button allows the end-user to control 4 operations.

The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.

4-fold key

I00-51004

Pack: 1



I01-51004

Pack: 1



I02-51004

Pack: 1



I03-51004

Pack: 1



I04-51004

Pack: 1



I21-51004

Pack: 1



I22-51004

Pack: 1



I23-51004

Pack: 1



I24-51004

Pack: 1



I54-51004

Pack: 1



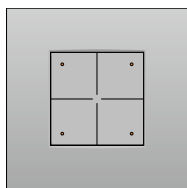
I57-51004

Pack: 1



I61-51004

Pack: 1



4-fold lighting control with LED

This push button allows the end-user to control 4 operations.

An LED in the key indicates the status of the control.

The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.

4-fold key

I00-52004

Pack: 1



I01-52004

Pack: 1



I02-52004

Pack: 1



I03-52004

Pack: 1



I04-52004

Pack: 1



I21-52004

Pack: 1



I22-52004

Pack: 1



I23-52004

Pack: 1



I24-52004

Pack: 1



I54-52004

Pack: 1



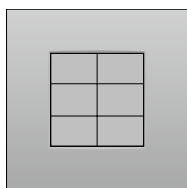
I57-52004

Pack: 1



I61-52004

Pack: 1



6-fold lighting control

This push button allows the end-user to control 6 operations.

The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.

6-fold key

I00-51006

Pack: 1



I01-51006

Pack: 1



I02-51006

Pack: 1



I03-51006

Pack: 1



I04-51006

Pack: 1



I21-51006

Pack: 1



I22-51006

Pack: 1



I23-51006

Pack: 1



I24-51006

Pack: 1



I54-51006

Pack: 1



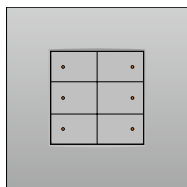
I57-51006

Pack: 1



I61-51006

Pack: 1



6-fold lighting control with LED

This push button allows the end-user to control 6 operations.

An LED in the key indicates the status of the control.

The push button is attached to a wall-mounted printed circuit board via a click mechanism. Includes key.

6-fold key

I00-52006

Pack: 1



I01-52006

Pack: 1



I02-52006

Pack: 1



I03-52006

Pack: 1



I04-52006

Pack: 1



I21-52006

Pack: 1



I22-52006

Pack: 1



I23-52006

Pack: 1



I24-52006

Pack: 1



I54-52006

Pack: 1



I57-52006

Pack: 1



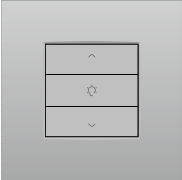
I61-52006

Pack: 1



Simple dimmer control

The resident dims one lighting point or one lighting circuit with this push button. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.

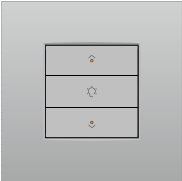


3-fold key

100-51043 Pack: 1	101-51043 Pack: 1	102-51043 Pack: 1	103-51043 Pack: 1	104-51043 Pack: 1	121-51043 Pack: 1	122-51043 Pack: 1	123-51043 Pack: 1	124-51043 Pack: 1
154-51043 Pack: 1	157-51043 Pack: 1	161-51043 Pack: 1						

Simple dimmer control with LED

The resident dims one lighting point or one lighting circuit with this push button. An LED in the key indicates the status of the control. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.

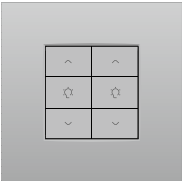


3-fold key

100-52043 Pack: 1	101-52043 Pack: 1	102-52043 Pack: 1	103-52043 Pack: 1	104-52043 Pack: 1	121-52043 Pack: 1	122-52043 Pack: 1	123-52043 Pack: 1	124-52043 Pack: 1
154-52043 Pack: 1	157-52043 Pack: 1	161-52043 Pack: 1						

Double dimmer control

The resident dims two lighting points or two lighting circuits with this push button. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.

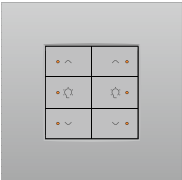


6-fold key

100-51046 Pack: 1	101-51046 Pack: 1	102-51046 Pack: 1	103-51046 Pack: 1	104-51046 Pack: 1	121-51046 Pack: 1	122-51046 Pack: 1	123-51046 Pack: 1	124-51046 Pack: 1
154-51046 Pack: 1	157-51046 Pack: 1	161-51046 Pack: 1						

Double dimmer control with LED

The resident dims two lighting points or two lighting circuits with this push button. An LED in the key indicates the status of the control. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.



6-fold key

100-52046 Pack: 1	101-52046 Pack: 1	102-52046 Pack: 1	103-52046 Pack: 1	104-52046 Pack: 1	121-52046 Pack: 1	122-52046 Pack: 1	123-52046 Pack: 1	124-52046 Pack: 1
154-52046 Pack: 1	157-52046 Pack: 1	161-52046 Pack: 1						

Flush surround plates to be ordered separately. Drawings finished products purely illustrative!



Switching module (3x)

Suitable for connecting 3 different circuits, e.g. light points, socket outlets or control valves. Each contact can be operated via a button on the module. The module allows you to interconnect 1 neutral to maintain neat cabling in the cabinet. Includes 3 feedback LEDs and 1 status LED. Bistable relays ensure low energy consumption.

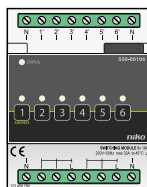
- 3 switch contacts
- max. 230V/16A per switch contact
- max. 40A for the entire module
- 8 connection terminals: 3 x 1,5mm² or 2 x 2,5mm² or 1 x 4mm²
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 45°C without derating
- dimensions: 2U
- CE compliant

Complete unit

Switching module (3x)

550-00103

Pack: 1



Switching module (6x)

Suitable for connecting 6 different circuits, e.g. light points, socket outlets or control valves. Each contact can be operated via a button on the module. The module allows you to interconnect 2 neutrals to maintain neat cabling in the cabinet. Includes 6 feedback LEDs and 1 status LED. Bistable relays ensure low energy consumption.

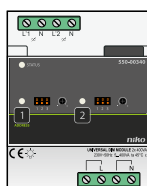
- 2 separate groups with 3 switching contacts each
- max. 230V/16A per group
- max. 32A for the entire module
- 16 connection terminals: 3 x 1,5mm² or 2 x 2,5mm² or 1 x 4mm²
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 45°C without derating
- dimensions: 4U
- CE compliant

Complete unit

Switching module (6x)

550-00106

Pack: 1



Universal dim module (2x400W)

The universal dim module comprises a DIN module with two channels for dimming dim circuits up to 400VA (at 45°C) or 500VA (at 35°C). This module is suitable for incandescent lamps, 230V halogen lamps, 12V halogen lamps through ferromagnetic or electronic transformers, dimmable LEDs and CFLi. The minimum capacity is 10VA. Minimum level, phase control and reverse phase control settings can be entered manually. You switch manually the circuits with the push buttons on the module. The modules can be placed alongside each other without additional derating. The sliding contact connects power and bus to the other modules. Includes electronic protection against short-circuit, overvoltage and overcurrent.

- two-channel dimmer
- connectable capacity per channel from 10 to 400VA (at 45°C) or 500VA (at 35°C)
- sliding contact for connection with other modules on the DIN rail
- consumption per channel: < 0.5W
- dimensions: 4U
- CE compliant

Complete unit

Universal dim module (2x400W)

550-00340

Pack: 1

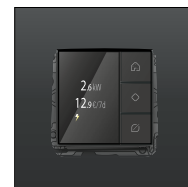
Ecodisplay

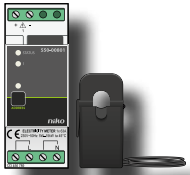
The eco display has 3 main functions: displaying energy consumption or production, activating the 'switch all off' function, and activating the presence simulation function. Depending on the monitoring modules (electricity meter or pulse counter), electricity consumption/production as well as gas and water usage will be displayed. Current usage may be displayed as a total of the previous 7 days in terms of cost or as an average figure. The end-user can press the eco button to switch off all lights and connected circuits when leaving the house. The home's energy usage will immediately decrease. The presence simulation can be activated with the press of a button as well. The programming software indicates which energy-saving lights are included in the simulation. This adds to the feeling of safety while using the least amount of energy. The eco display is best located near the door through which the end-user usually leaves the house.

- recommended mounting height: 140-150cm
- 3 keys
- two-wire connection to installation
- back-lit colour display

Complete unit

For mounting with claws, centre distance 60mm	550-I3080	Pack: 1
For mounting with screws, centre distance 71mm	550-I3081	Pack: 1





Electricity measuring module (1 channel)

This module allows end-users to monitor the electricity consumption of their home. The module is suitable for measuring the total electricity consumption or electricity production of homes connected to a single-phase network. Put the accompanying current clamp onto one or more conductors for more accurate measurements. The electricity consumption or production will be indicated on the eco display.

Using the touch screen or energy software, end-users can easily monitor their electricity consumption or electricity production and detect unusual peaks. The system must be equipped with an IP module that logs the measured data in order to obtain a detailed analysis and history review. Includes 1 feedback LED per channel that indicates if electric current is measured, and 1 status LED for the module.

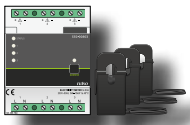
- measuring range: 5-14500W, 22mA-63A
- accuracy: IEC62053-21 class 1 (R), class 2 (L)
- connection: single phase, 230V AC, 50Hz
- max. cable diameter for current clamp: 1 * VOB 10mm² or 6 * 2.5mm² or 9 * 1.5mm²
- length of connector cable for current clamp: 100cm
- input voltage: 230V AC
- 2 connection terminals to measure the voltage of the circuit monitored
- 2 connection terminals to connect the current clamp supplied
- cross connector to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60°C
- dimensions: 2U
- CE compliant

Complete unit

Electricity measuring module (1 channel)

550-00801

Pack: 1



Electricity monitoring module (3 channels)

This module allows end-users to monitor the electricity consumption of their home. The module is suitable for measuring the total electricity consumption or electricity production of homes connected to a three-phase network. The module can also be used to measure part of the installation, e.g. one or some of the circuits, a specific appliance (washing machine) or the energy production of solar panels. Put the three accompanying current clamps onto one or more conductors for more accurate measurements. The electricity consumption or production will be indicated on the eco display.

Using the touch screen or energy software, end-users can easily monitor their electricity consumption or electricity production and detect unusual peaks. The system must be equipped with an IP module that logs the measured data in order to obtain a detailed analysis and history review. Includes 1 status LED and 1 feedback LED that indicate if electric current is measured.

- measuring range: 5-14500W, 22mA-63A
- accuracy: IEC62053-21 class 1 (R), class 2 (L)
- connection: three-phase, 3 x 230V AC or 3 x 400V AC, 50Hz, single-phase, 3 circuits of 230V AC, 50Hz
- max. cable diameter for current clamp: 1 * VOB 10mm² or 6 * 2.5mm² or 9 * 1.5mm²
- length of connector cable for current clamp: 100cm
- input voltage: 230V AC
- 2 connection terminals to measure the voltage of the circuit monitored
- 2 connection terminals to connect the current clamp supplied
- cross connector to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60°C
- dimensions: 4U
- CE compliant

Complete unit

Electricity measuring module (3 channels)

550-00803

Pack: 1



Pulse counter

This module is used to monitor the gas, water or electricity consumption (or production). It is connected to the pulse output of a gas, water or electricity meter. The consumption or the production appears on the ecodeisplay.

Using the touch screen or the energy software, the resident can easily monitor the easy-to-read consumption or production data and detect deviations.

For a detailed analysis and history, the installation should be always equipped with an IP module which logs the measurement data. The module has three pulse inputs so that it can be connected to three meters. The pulse scale factor is entered in the installation software (e.g. 1 pulse = 1 litre). The module includes one feedback LED per channel that indicates when a pulse is detected, and one status LED for the module.

Ask the architect to provide a meter with pulse output when a connection to the utilities to be measured is being ordered.

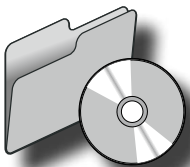
- pulse frequency: max. 10Hz
- 3 inputs for the connection to pulse output of meter
- common connection
- 4 screw terminals
- sliding contact for the connection with other modules on the DIN rail
- ambient temperature: 0 – 60°C
- dimensions: 2U
- CE compliant

Complete unit

Pulse counter

550-00250

Pack: 1



Energy software

This software gives the resident an overview of the electricity consumption or the electricity production of his solar panels. Depending on the number of measuring modules, the consumption of specific devices or circuits is also indicated. It is possible to see the current consumption as well as the consumption history. An IP module is required to log the measurement data. The resident can also monitor the water and gas consumption if a Niko Home Control pulse counter is present. The pulse counter is connected to a gas and/or water meter with a pulse output.

With this software, the resident can analyse his consumption, set a target consumption, detect abnormal consumption and receive tips for saving energy. The software is to be downloaded from www.nikouk.com.

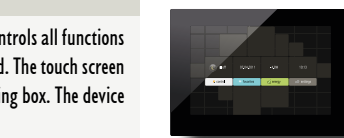
PC: minimum configuration: Pentium IV, 1Gb RAM. Compatible with Windows XP SP2 or a more recent version.

Mac: minimum configuration: Core duo, 1Gb RAM. Compatible with OS X 10.5 or a more recent version.

Touch screen

This touch screen offers a unique user experience with a centralised and easy-to-use control system. Through a user-friendly interface the resident controls all functions included in the Niko Home Control installation, such as lighting, roller blinds and gates. Also time schedules and mood settings can be easily changed. The touch screen informs on the electricity, gas and water consumption, as well as the status of the installation. Simple to install as it only requires one flush-mounting box. The device is powered via one cable (UTP cable) to the power supply (see accessories) or via a separate 24V DC connection.

- dimensions: 140x200x21mm (HxWxD)
- power supply: 24V DC or PoE (48V DC)
- screen size: 7"
- maximum number of touch screens per installation: 6
- screen resolution: 800*480
- ambient temperature: 5 – 50°C

**Complete unit**

Touch screen	550-20100	Pack: 1
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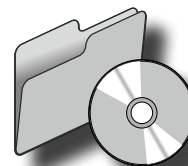
Accessories

PoE power supply for touch screen	550-00501	Pack: 1
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Smartphone application

This application can be loaded onto an iPhone or a smartphone with the Android operating system. It allows you to create a central and easy-to-use control system on the smartphone. The user-friendly interface gives the resident access to all the functionalities of the Niko Home Control installation, such as lighting, roller blinds and gates. Also information about the electricity, gas and water consumption will be displayed on the screen. This application can only be used indoor, i.e. within the WiFi network signal range. The system should be equipped with an IP module to connect to the WiFi router.

Visit the Niko website to learn more about this application and where to download it.

**Mood control**

The mood control allows the end-user to create specific light scenes or to enter new mood settings. Automatic sensor-based control is also possible.

- Direct connection to Niko Home Control

**Complete unit**

For mounting with claws, centre distance 60mm	550-I3040	Pack: 1
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For mounting with screws, centre distance 71mm	550-I3041	Pack: 1
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Indoor motion detector

This 180° PIR motion detector is for indoor use only. The end-user can manually switch the lights on or off by pressing the button. The LED lights up when the motion detector is activated manually by the end-user. The Niko Home Control system supplies power to the device. No additional power required. To be used as a motion detector, motion detector and photocell combined, or as a photocell.

- detection range: 8m (horizontal)
- delayed off time: adjustable from $\pm 5s$ to $\pm 30min$ via the software
- light sensitivity: light sensor adjustable from 2 to 1000lux
- recommended flush-mounting height: 0.8m to 1.2m
- detection angle: horizontal 180° / vertical 60°

**Base****550-20210**

For mounting with claws, centre distance 60mm
Pack: 1

**550-20211**

For mounting with screws, centre distance 71mm
Pack: 1

Finishing set**100-55511**

Pack: 1

**101-55511**

Pack: 1

**102-55511**

Pack: 1

**103-55511**

Pack: 1

**104-55511**

Pack: 1

**121-55511**

Pack: 1

**122-55511**

Pack: 1

**123-55511**

Pack: 1

**124-55511**

Pack: 1

**154-55511**

Pack: 1

**157-55511**

Pack: 1

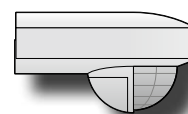
**161-55511**

Pack: 1

**Outdoor motion detector**

This outdoor motion detector is used for driveways, outdoor areas or gardens. The outdoor motion detector includes an integrated light sensor. Adjustable detection range of 0-14 m. The motion detector can be rotated and the detection range can be divided into various sections using the adjustable cover cap. The Niko Home Control system supplies power to the device. No additional power required. In conformity with European EMC standards and safety standard EN60669-2-1.

- power supplied directly via the Niko Home Control system
- detection angle: 180°
- mounting height: 2.5m
- detection range: semicircle, up to 14m
- hysteresis on light sensitivity: +10%
- light sensitivity: 5lux - infinity
- automatic on, automatic off after delayed off time
- protection degree: IP54
- ambient temperature: -20 to 45°C



Complete unit

Outdoor motion detector

550-20200

Pack: 1

Thermostat

The thermostat can be mounted in any room fitted with a radiator, floor heating system, heating unit or cooling unit. The thermostat is used for zone heating or cooling. As the Niko Home Control system controls the heating or cooling in several different rooms, end-users can reduce their energy bill considerably by linking the thermostat to the 'all off' function or calendar-based functions — as opposed to maintaining the same temperature throughout, such as in thermostatic mixer taps, for instance. To achieve the best zone heating or cooling experience, the thermostat should be used in combination with the heating or cooling module.

- 4 weekly programmes
- 4 temperature levels: nighttime, daytime, eco and antifrost
- manual operation
- recommended mounting height: 140-150cm
- 3 modes: heating, cooling, heating & cooling
- two-wire connection to installation
- back-lit display

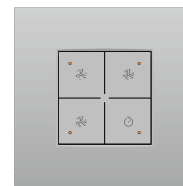


Complete unit

For mounting with claws, centre distance 60mm	550-I3050	Pack: 1
For mounting with screws, centre distance 71mm	550-I3051	Pack: 1

Ventilation control with led

The resident programs four ventilation settings with this push button. An LED in the key indicates the status of the control. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.



Complete unit

100-52054 Pack: 1 	101-52054 Pack: 1 	102-52054 Pack: 1 	103-52054 Pack: 1 	104-52054 Pack: 1 	121-52054 Pack: 1 	122-52054 Pack: 1 	123-52054 Pack: 1 	124-52054 Pack: 1
154-52054 Pack: 1 	157-52054 Pack: 1 	161-52054 Pack: 1 						



Ventilation module

The resident controls the ventilation system (type C, D or other) with this module. You connect the ventilation with the module instead of the supplied switch with three or four settings. The module connects the ventilation control to the Niko Home Control functionalities such as the “all off” function or calendar-based functions. By controlling the ventilation based on presence, the resident will be saving a lot of energy while maintaining optimum air quality. The programming software allows you to decide when and how long the ventilation should be activated in which setting (low (eco), medium or high). The module only has to be connected. You can also operate each contact via a button on the module. The module includes three feedback LEDs and one status LED. Bistable relays ensure a low energy consumption.

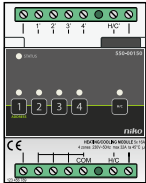
- connection terminals for controlling 3 settings: low (eco) – medium – high
- connection terminals: 3 x 1.5mm² or 2 x 2.5mm² or 1 x 4mm²
- sliding contact for the connection with other modules on the DIN rail
- ambient temperature: 0 – 60°C
- dimensions: 2U
- CE compliant

Complete unit

Ventilation module

550-00140

Pack: 1



Heating or cooling module

This module allows zone heating or cooling for four zones or rooms. The module includes four valve outputs (eg. for electronic valves at 230V~ or 24V DC), and one output contact for programming the heating or cooling installation for daytime or nighttime activation (depending on the need for heating or cooling in one of the zones). Most heating or cooling units include an input contact (eg. telephone contact, kettle contact). If there are more than four zones or rooms, an extra module is required. Each zone or room should be fitted with a Niko Home Control room thermostat. You can also operate each contact via a button on the module. The module includes five feedback LEDs and one status LED. Bistable relays ensure a low energy consumption.

Consult the HVAC installer to have the system fitted with control valves (eg. electronic valves on the heating collector or radiator) and to verify the contact of the heating or cooling unit to which the system should be connected.

- connection terminals for the operation of 4 valves at 230V~ or 24V DC
- connection terminals for the operation of the heating or cooling unit
- connection terminals: 3 x 1.5mm² or 2 x 2.5mm² or 1 x 4mm²
- sliding contact for the connection with other modules on the DIN rail
- ambient temperature: 0 – 60°C
- dimensions: 4U
- CE compliant

Complete unit

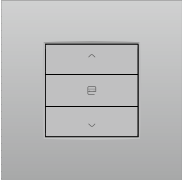
Heating or cooling module

550-00150

Pack: 1

Simple motor control

The resident operates a roller blind, a curtain or a sun blind with this push button. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.

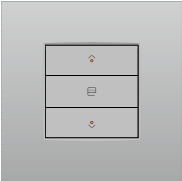


3-fold key

100-51033 Pack: 1	101-51033 Pack: 1	102-51033 Pack: 1	103-51033 Pack: 1	104-51033 Pack: 1	121-51033 Pack: 1	122-51033 Pack: 1	123-51033 Pack: 1	124-51033 Pack: 1
154-51033 Pack: 1	157-51033 Pack: 1	161-51033 Pack: 1						

Simple motor control with LED

The resident operates a roller blind, a curtain or a sun blind with this push button. An LED in the key indicates the status of the control. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.

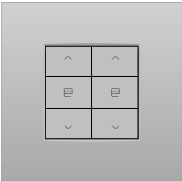


3-fold key

100-52033 Pack: 1	101-52033 Pack: 1	102-52033 Pack: 1	103-52033 Pack: 1	104-52033 Pack: 1	121-52033 Pack: 1	122-52033 Pack: 1	123-52033 Pack: 1	124-52033 Pack: 1
154-52033 Pack: 1	157-52033 Pack: 1	161-52033 Pack: 1						

Double motor control

The resident operates two roller blinds, two curtains, two sun blinds or a combination of these elements with this push button. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.

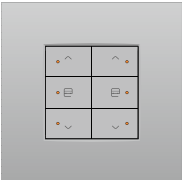


6-fold key

100-51036 Pack: 1	101-51036 Pack: 1	102-51036 Pack: 1	103-51036 Pack: 1	104-51036 Pack: 1	121-51036 Pack: 1	122-51036 Pack: 1	123-51036 Pack: 1	124-51036 Pack: 1
154-51036 Pack: 1	157-51036 Pack: 1	161-51036 Pack: 1						

Double motor control with LED

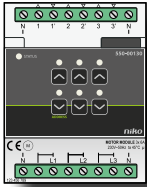
The resident operates two roller blinds, two curtains, two sun blinds or a combination of these elements with this push button. An LED in the key indicates the status of the control. The push button is attached to a wall-mounted printed circuit board via a click mechanism. Key included.



6-fold key

100-52036 Pack: 1	101-52036 Pack: 1	102-52036 Pack: 1	103-52036 Pack: 1	104-52036 Pack: 1	121-52036 Pack: 1	122-52036 Pack: 1	123-52036 Pack: 1	124-52036 Pack: 1
154-52036 Pack: 1	157-52036 Pack: 1	161-52036 Pack: 1						

Flush surround plates to be ordered separately. Drawings finished products purely illustrative!



Motor module

The resident uses this module for the operation of three motor-controlled applications, such as roller blinds, curtains and sun blinds. You can also operate each motor via a button on the module. The module allows you to connect two neutrals to maintain neat cabling in the cabinet. The module includes six feedback LEDs and one status LED. Bistable relays ensure a low energy consumption. You adjust the running time with the programming software (0 to 180s, adjustable per second).

- switching delay: 0.5s
- maximum 3 motors
- max. 6A per output
- connector section: 1 x 4mm² or 2 x 2.5mm²
- sliding contact for the connection with other modules on the DIN rail
- ambient temperature: 0 – 45°C (without derating)
- dimensions: 4U
- CE compliant

Complete unit

Motor module

550-00130

Pack: 1

Digital potential-free sensor module

The digital potential-free sensor module allows the connection of sensors with an NPN or digital output to Niko Home Control. The button on the module can be used to temporarily change the contact status for simulation purposes. Typical applications are contacts used in twilight switches, smoke detectors, motion detectors, door communication systems or contacts used in locks, telephone interfaces and alarm systems. The connected sensors must comply with SELV standards (safety extra-low voltage).

- 3 inputs for normally open (NO) contact or NPN transistor output
- 4 screw terminals
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60
- dimensions: 2U
- CE compliant

Complete unit

Digital potential-free sensor module	550-00210	Pack: 1
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**Nikobus interface**

The Nikobus interface allows you to connect a Nikobus system for home automation to Niko Home Control. Two screw terminals are included to connect the interface to the Nikobus system.

- 2 screw terminals
- sliding contact to connect the module to other modules on the DIN rail
- ambient temperature: 0 to 60
- dimensions: 2U
- CE compliant

Complete unit

Nikobus interface	550-00505	Pack: 1
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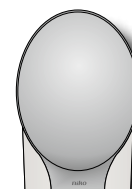
**Twilight switch, 24V, 1 channel, 4A**

Twilight switch for outdoor wall mounting (IP54), suitable for switching outdoor lighting. Light sensitivity adjustable from 2 to 200lux. Large sensor surface for accurate light measuring. In compliance with the European directives for EMC and safety EN60669-2-1.

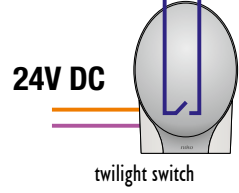
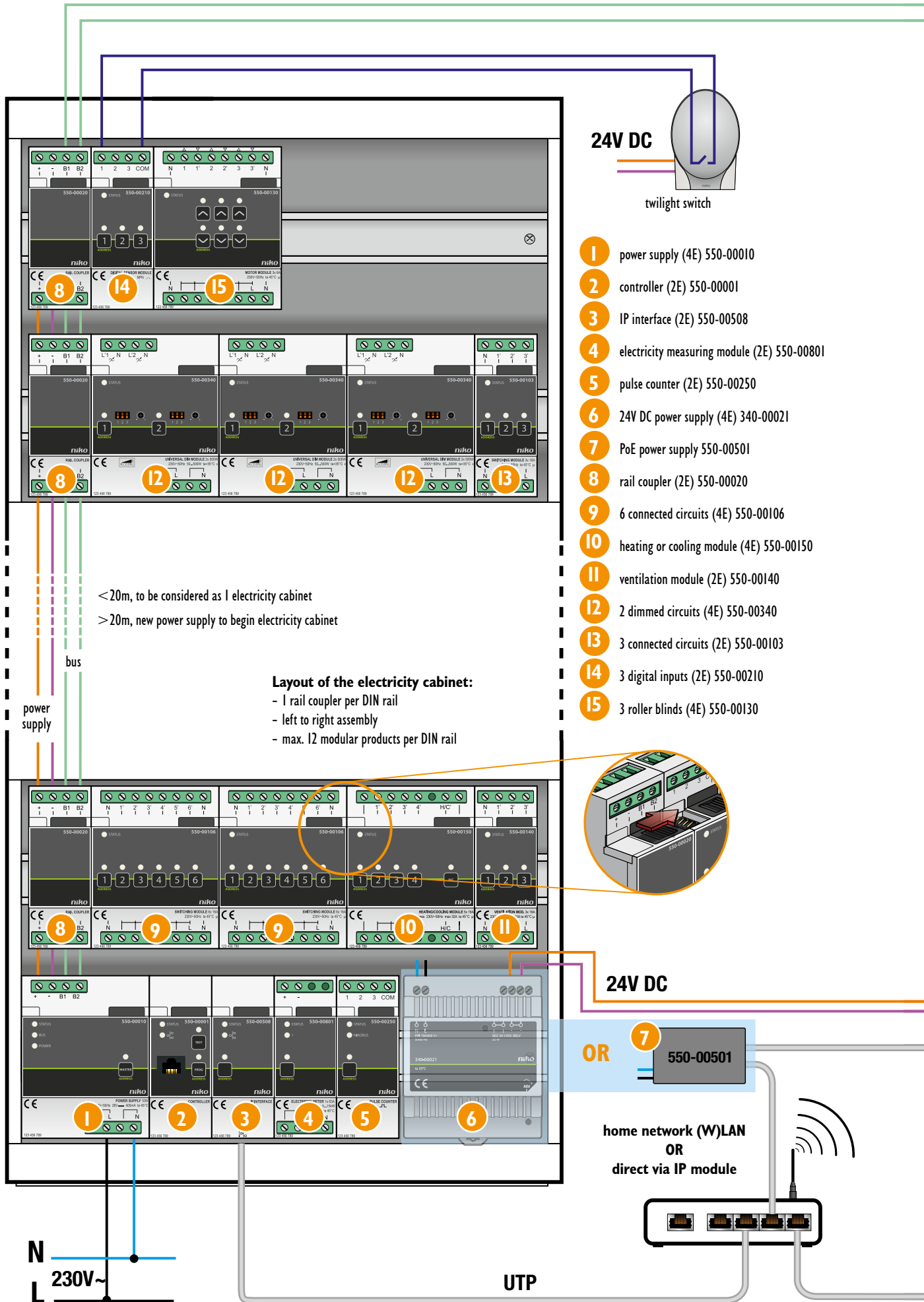
- 24V AC/DC $\pm 10\%$
- relay contact: N.O. max. 4A
- incandescent lamps: 40W
- hysteresis on light sensitivity: +50%
- switch-off delay: $\pm 60s$
- light sensitivity: 2-200lux
- protection degree: IP54
- operating temperature: -50 to 50°C
- dimensions: H102mm x W73mm x D39mm

Complete unit

Twilight switch, 24V, 1 channel, 4A	350-10032	Pack: 1
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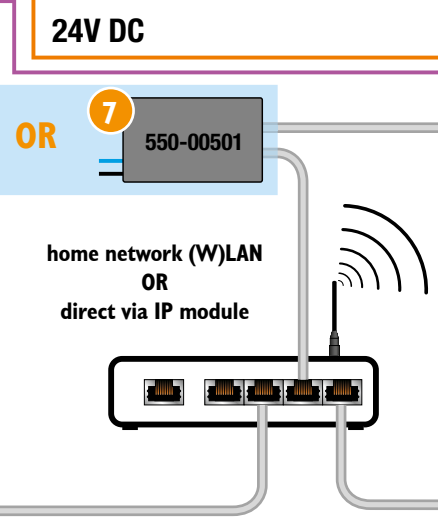
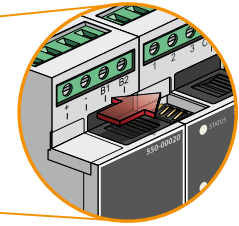
Installation example



- 1 power supply (4E) 550-00010
- 2 controller (2E) 550-00001
- 3 IP interface (2E) 550-00508
- 4 electricity measuring module (2E) 550-00801
- 5 pulse counter (2E) 550-00250
- 6 24V DC power supply (4E) 340-00021
- 7 PoE power supply 550-00501
- 8 rail coupler (2E) 550-00020
- 9 6 connected circuits (4E) 550-00106
- 10 heating or cooling module (4E) 550-00150
- 11 ventilation module (2E) 550-00140
- 12 2 dimmed circuits (4E) 550-00340
- 13 3 connected circuits (2E) 550-00103
- 14 3 digital inputs (2E) 550-00210
- 15 3 roller blinds (4E) 550-00130

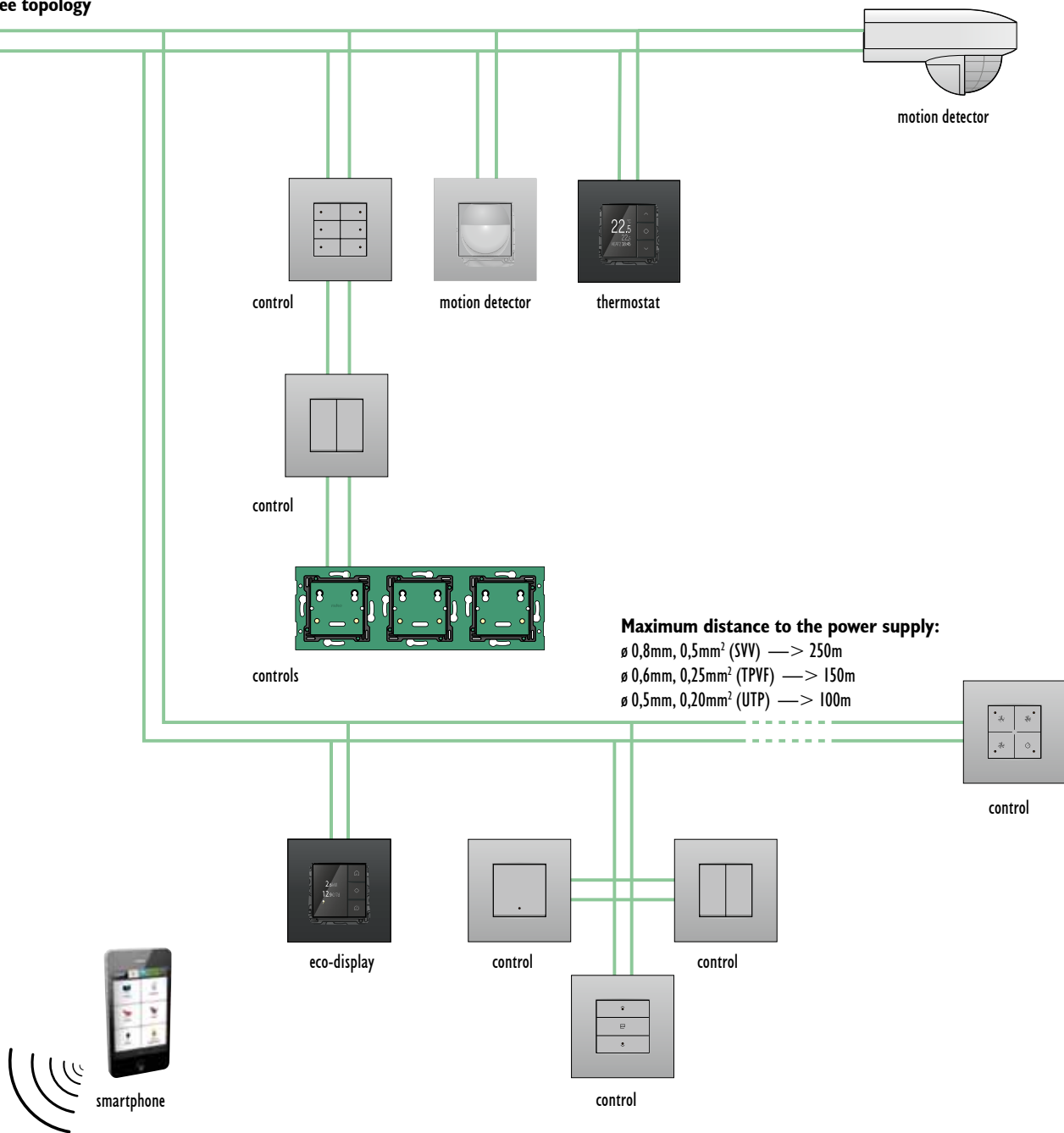
<20m, to be considered as I electricity cabinet
 >20m, new power supply to begin electricity cabinet

Layout of the electricity cabinet:
 - 1 rail coupler per DIN rail
 - left to right assembly
 - max. 12 modular products per DIN rail



UTP

Two-wire, non-polarised
Free topology



installation sizing:

- per power supply (maximum 3):
 - maximum 24 modular Niko Home Control products inside electrical cabinet
 - maximum 70 controls, incl. 20 with feedback / motion detector / thermostat / eco-display
- if an additional power supply or controller is provided, they will operate as a back-up

