Neets Control – SieRRa II

SieRRa II EU P/N: 310-0102 SieRRa II DK P/N: 310-0202 SieRRa II US P/N: 310-0402

Quick Guide



Neets

What is in the box?

When you open the box it will contain the following items:

SieRRa II, DK	SieRRa II, EU	SieRRa II, US
1 × Neets Control - SieRRa II	1 x Neets Control - SieRRa II	1 x Neets Control - SieRRa II
1 × 12V wall plug PSU	1 x 12V wall plug PSU	1 x 12V wall plug PSU
1 × Wall plate	1 x Wall plate	1 x Wall plate
Terminal connectors	Terminal connectors	Terminal connectors
1 × Front cover	1 x Front cover	1 x Front cover
1 × Paper cover	1 x Paper cover	1 x Paper cover
Quick quide	Metal plate	2 x #6-32 screws for mount-
	2 x screws for metal plate Quick guide	ing in standard US one-gang electrical wall box or mounting bracket ("mud ring") 2 x white headed #6-32 screws for wall plate fixation Quick guide

Important Safety Instructions

Read and understand all safety and operating instructions before using the equipment.

Find the complete user manual on www.neets.dk before installation

Description

SieRRa II is a compact yet surprisingly intelligent AV control system. It is remarkably simple to use, thanks to an intuitive graphical interface with a minimum number of buttons.

With SieRRa II anyone can start up a presentation without complicated procedures. Simply press ONE button and you are ready to begin!

SieRRa II is a perfect choice for the classroom, meeting or conference room and is easy to install. SieRRa II can control devices through IR, RS232 or even LAN. SieRRa II is available in polar white and anthracite.

The drawings in the manual of Neets Control - SieRRa II is based on the DK. US and EU versions.

Function description	
RS-232 (Tx+Rx) or IR (Tx) (controls up to 2 IR devices on the port)	1
RS-232 (Tx) or IR (controls up to 2 IR devices on each port)	2
LAN device control	10
Power over Ethernet	Yes
1/0	3
Buttons	8
NEB Bus	1 (5 NEB)
IR Learn option with Device editor	Yes
USB port for programming	1
PIR sensor input	Yes
Light on/off	Yes
Room darkening	Yes
Screen up/down	Yes
Volume control	Yes
Device feedback	Yes

Specification

IEC/EN

IEC/EN

Front

FCC CE

61000-6-1

61000-6-2

Quick guide to the SieRRa II

These are shown below:

Part 15, Class A

	Input / Output	3 × I/O
12 VDC 1 W 2 pin screw block ed)	Input trigger low Input trigger high Output type Isolated output Max voltage load Max current Connector	 3 x //O 4 V/DC > 4 V/DC Open drain No 24 V/DC 0.5 A 4 pin screw blo
100 VAC - 240 VAC	Network (LAN)	
50 Hz – 60 Hz Max 8 W	Speed Dupley modes	10 / 100 Mbit Half or Full
	DHCP	Default off
1 x bidirectional 2 x uni-directional 1200 – 115200 bit/sec	Default IP Default gateway Default subnet mask	192.168.254.2 192.168.1.1 255.255.255.0
7, 8 Even, Odd, None 1, 2 400 Hz to 500 KHz 3 pin screw block	Power over Ethernet	
	Compliance 802.3af mode PD Class	802.3af / 802.3 A + B 1
	General	
1 KHz to 150 KHz	Width, EU	55 mm 55 mm
SieRRa II EU, white SieRRa II DK, white SieRRa II US, white	Depth, EU Width, DK Height, DK Depth, DK Width, US	55 mm 17 mm 45 mm 72 mm 17 mm 45 mm 105 mm
	1 W 2 pin screw block ed) 100 VAC - 240 VAC 50 Hz - 60 Hz Max 8 W 1 x bidirectional 2 x uni-directional 1200 - 115200 bit/sec 7, 8 Even, Odd, None 1, 2 400 Hz to 500 KHz 3 pin screw block 1 KHz to 150 KHz SieRRa II EU, white SieRRa II DK, white	12 VDC 1 W 2 pin screw blockPorts Input trigger low Input trigger high Output type Isolated output Max voltage load Max current Connector100 VAC - 240 VAC 50 Hz - 60 Hz Max 8 WNetwork (LAN)100 VAC - 240 VAC 50 Hz - 60 Hz Max 8 WSpeed Duplex modes DHCP1 x bidirectional 2 x uni-directional 1200 - 115200 bit/sec 7, 8 Even, Odd, None 1, 2 400 Hz to 500 KHz 3 pin screw blockNetwork (LAN)1 KHz to 150 KHzPower over Ethernet Compliance 802.3af mode PD Class1 KHz to 150 KHzWidth, EU Height, EU Depth, EUSieRRa II EU, white SieRRa II DK, white SieRRa II DK, white SieRRa II US whiteWidth, DK Height, DK Depth, DK

Depth, US 24 mm Weight, EU/DK 90 g Shipping weight 0,3 kg Shipping dimension: EU. DK (W/D/H) 155x85x55 mm Shipping dimension US 150x170x55 mm (W/D/H) -20 °C to 50 °C Storage temperature Non-condensing Storage moisture Operation temperature 0 °C to 30 °C

Non-condensing

lock .252 .0 3at

DK version

- and the paper label behind it.

US version

- and the paper label behind it.

With front cover Without front cover 4



Buttons, indicators and connectors are available on the front and rear panels.



Operation moisture



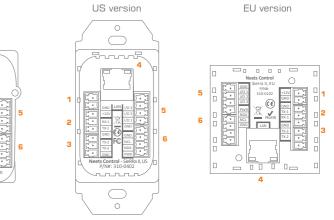
Rear: DK version



Installation

requirements for the country of sale.

Description
Push buttons for controlling the AV setup
Red LED lights for indication of AV setup status
Front cover with label for button description
Mini USB for programming (behind front cover)



Description	
1 x 12 VDC power input	
1 x RS-232 port, Bidirectional or IR Unidirectional	
2 x RS-232 or IR ports, Unidirectional	
1 x RJ-45 Network (LAN) connector with PoE functionality	
3 x Digital Input/Output	
1 x NEB bus port	

The Neets Control - SieRRa II can be installed in standard electrical back boxes or by using mounting brackets. Each model (DK, US, EU) fits in typical boxes matching specific installation

1. Prepare the installation site by installing the needed back box or brackets. Pull the needed cables through the back box or bracket.

2. Mount the supplied connectors to the cables as needed and connect to the control system.

3. Mount the control system in the back box or on the bracket:

O Insert a flathead screwdriver gently and pry out the front cover. Remove the front cover

O Insert a flathead screwdriver into the button. Gently push and pry out the button.

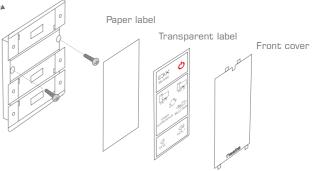
O Insert the control system in a frame matching the back box used.

Insert screws (not supplied) matching the back box into the two holes. Secure the control system to the back box without overtightening the screws.

O Remount the paper label, insert a printed transparent label showing the button functions,

and mount the front cover. Note that the front cover mounts in only one direction.

Flathead screwdriver

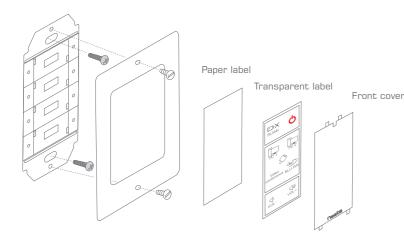


O Insert screws matching the back box into the two mounting holes. Secure the control system to the back box or bracket without overtightening the screws.

• Mount the frame on the control system with the supplied screws.

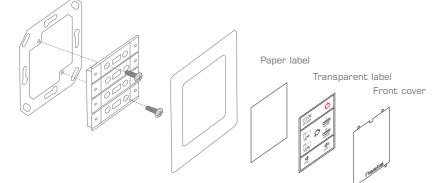
O Insert a flathead screwdriver gently and pry out the front cover. Remove the front cover

• Remount the paper label, insert a printed transparent label showing the button functions, and mount the front cover. Note that the front cover mounts in only one direction.



EU version

- O Insert a flathead screwdriver gently and pry out the front cover. Remove the front cover and the paper label behind it.
- Insert the control system in a frame matching the back box used.
- O Insert screws matching the back box or bracket into the two holes. Secure the control system to the back box or bracket without overtightening the screws.
- O Remount the paper label, insert a printed transparent label showing the button functions, and mount the front cover. Note that the front cover mounts in only one direction.



- 4. Connect and apply power to the control system.
- 5. Configure the control system using the Neets Project Designer.

Connections and Controls

Power input port

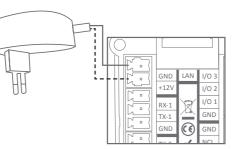
Connect the SieRRa II to the supplied AC power adaptor using the supplied 2 pole screw block terminal. White/black wire connects to 12V, black wire connects to GND. The SieRRa II adaptor incorporates a universal mains input which accepts AC line input from 100 V to 240 V. Note: If using the PoE functionality to power the SieRRa II. do not connect the AC power adaptor.

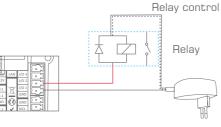


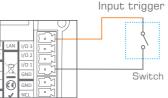
The three I/O (Inputs/Outputs) can be configured as either output or input. Each is available for connection to a PIR (movement) sensor, keyboard lock, relays or for other compatible uses. The ports are not potential free; you may need external relays to prevent ground loops depending on your application.

When used as outputs, the I/O ports are active low. When activated, the I/O ports are tied to GND through a FET transistor (also called open drain/collector function). Each I/O can draw up to 24VDC/500mA.

When used as inputs, the applied voltage must be below 1 VDC to be accepted as LOW, and above 4 VDC (but below 24 VDC) to be accepted as HIGH. The inputs are default HIGH and must be connected to ground in order to change state.



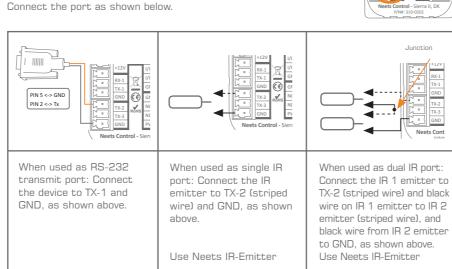






The RS-232 ports (TX-1, RX-1, TX-2, TX-3) are used for one- or two-way communication. Port 1 is a two way port, which can be used for devices for which a reply function is required, such as a projector.

All of the RS-232/IR ports can be configured in the Neets Project Designer software either as RS-232 or as IR emitter.



NEB port

The SieRRa II has a built-in NEB (Neets Extension Bus). This port is used to add up to 5 NEB devices (e.g. two Keypads, two Level Controls and one Expander).

Connect your NEB devices to this port with a cable not exceeding 20 cm of length. Connections are PWR to PWR, NCL to NCL, NDA to NDA and GND to GND.

If additional cable length is needed in your application, please use the NEB extender to allow placement of the devices up to 40 meters from the SieRRa II. See the Neets website for details on the NEB Extender.

LAN port

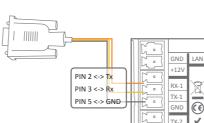
The network connector integrates the system into a local area network. You must connect the SieRRa II to your LAN if you are using any of the LAN features of the product.

The SieRRa II has Power over Ethernet functionality built into the LAN interface which can power up the entire control system and up to two connected NEB units through a PoE-enabled PSE (power sourcing equipment) device. To power the SieRRa II, use a PoE enabled switch

or a PoE power injector which complies with IEEE802.3af.

Two LEDs on the connector indicate the following:

Со	lor:	Off	On	Blink
Yel	low	No Link	Link	Activity
Gr	een	10Mbit	100Mb it	





Buttons

as shown to the right.

Each button has a tactile click feedback to ensure proper activation. Also, each button has an embedded multicolor LED light to indicate current status of the AV system.

Button function and LED indication are set up using the Neets Project Designer software.

Configuration through USB port

The USB port is used exclusively for configuring the SieRRa II from the Neets Project Designer software. It can't be used to control any external devices.

already installed unit.

5P).

Troubleshooting

Error indication using LEDs

numbered as shown.

	D sh	0.4/6	Description	Solution
1 2 3 4	0 0 0 米	Off Off Off Flashing	No connection to one or more NEB units.	 o Check that the NEB units used in the project are connected. o Check that the NEB units used in the project are configured correctly. o After doing one of the above, remove the power to the control system for 20 sec before reconnecting the power again.
1 2 3 4			No project found on the control system or unable to start the project.	 o Try to upload the project again. o Alternatively, there can be a problem in the project you have uploaded. In this case, try uploading an empty project and see if this works.
			Unexpected Error.	o Turn off the power to the control system for 20 sec before turning the power on again.
1 2 3 4	* *	Off Flashing Flashing Off	No contact to Neets network unit.	 o Check to confirm the SN used in the Project Designer matches the one for the Neets unit on your network. o Check LAN connection to the Neets network unit.
1 2 3 4	*	Off Flashing Flashing Flashing	Firmware upgrade Neets network unit.	o One or more of the Neets network units used in the cur- rent project needs a firmware upgrade before it will work with this project.
1 2 3 4	0 0 米	Off Off Flashing	Error in serial number.	o You need to return the unit to Neets or your local dealer for replacement/repair.
1 2 3 4	* 。 。 *	Flashing Off Off Flashing	Resuming factory default settings	o When pressing Switch 1 and 4 during power on, the sys- tem will delete the current settings and resume factory default. This method is only intended to be used if the control system locks up and enters "Unexpected Error"

SieRRa II has eight front panel buttons available for the end user to access controller functions. The buttons are numbered

The front panel USB port is located beneath the front cover and label. The host USB port can power the control system while configuring, so no external power is needed when configuring the SieRRa II. However, external power (either from AC adaptor or Power over Ethernet) and the USB port may be connected at the same time, for example when changing the configuration on an

The USB connector for connecting to the SieRRa II is type "mini USB B 5P". (It is available on the web as a USB A to Mini USB B









If there is a fault in either the configuration or the SieRRa II unit, this will be indicated on the front button LED indicators. Button LEDs 1-4 are used to indicate the error; the LED indicators are

The flashing error descriptions and patterns are described below: