

## Network Dimmer Pack with RCK system

Instruction Manual

Models:

NDP1210 RCK, NDP1213 RCK, NDP1216 RCK NDPN1210 RCK, NDPN1213 RCK, NDPN1216 RCK NDP6025 RCK, NDP6032 RCK version 3.0 since 3 February 2020

#### **ATTENTION!**

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully.

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

NDP12XX\_RCK\_en\_manual\_M287

#### 1. <u>General information</u>

#### **IMPORTANT INSTRUCTIONS!**

All safety and operating instructions should be read before the equipment is installed or operated. This equipment must be earthed.

Let the equipment adapt the environment for at least 10 minutes after unpacking.

#### IMPORTANT SAFETY INFORMATION

The following general safety precautions have to be observed during all phases of operation, service, and the repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

#### Do not operate in an explosive atmosphere!

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

#### Water, moisture, heat and humidity

Do not operate this equipment near water or in areas with wet floors, or in high humidity atmosphere, where condensation forms on the equipment. It should never be placed near or over a heat register or other source of heated air. It should not be installed or operated without proper ventilation.

#### **Power & DMX Input connections**

Power & DMX Input connections are done using a HARTING connector located on the right side of the rear panel. Simply roll the dimmer pack along the wheels and plug it in the back panel by a slight push.

#### **Output connection**

The output terminals are located inside the dimmer and are wired to the HARTING connector located on the left side of the rear panel. Live, neutral and earth connections must be made to all load equipment.

#### Ethernet Art-Net, s.NET Input connection

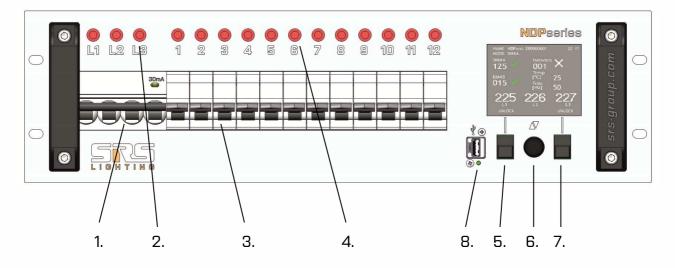
Ethernet standard RJ45 input connector is located on the rear panel. After the dimmer pack is inserted into the back panel, simply connect the Ethernet connector.

#### USB connector

There is a USB-A connector located on the front panel of the unit.

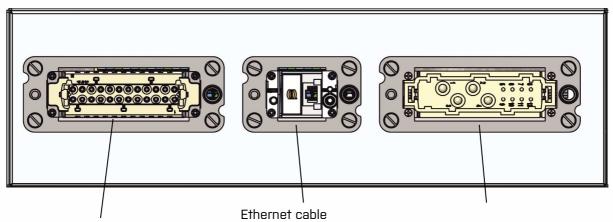
#### 2. Functions and Control

#### Front panel:



- 1. Main switch or Residual current device
  - a. GFI63 or 80A type A 30mA
  - b. Main switch on models marked as NDPxxxx**B** or NDPNxxxx**B**
- 2. Indicator of main input
- 3. Circuit breakers
  - a. **1P** for NDPxxxx
  - b. **1P+N** for NDP**N**xxxx
  - c. **1P+1P** for NDP**P**xxxx
  - d. **RCBO** for NDP**G**xxxx
- 4. Output power indication
- 5. Left selection key
- 6. Encoder
- 7. Right selection key
- 8. USB port

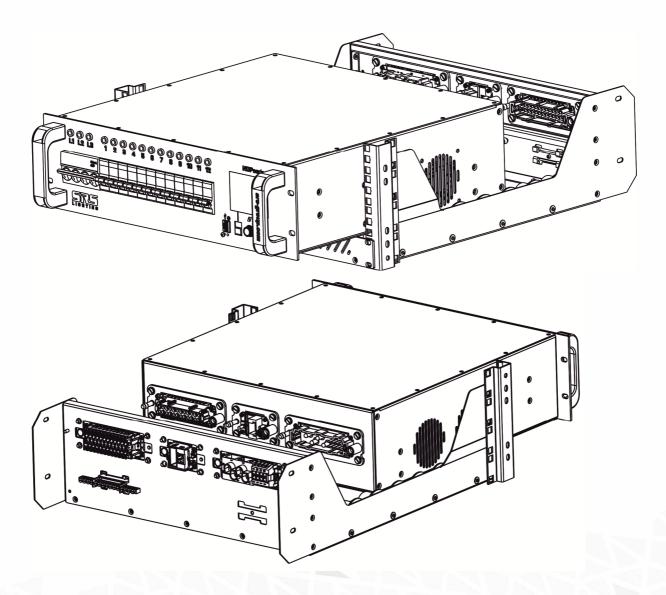
#### Rear panel:



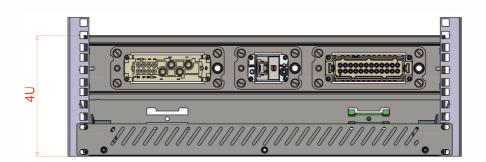
Dimmer output HARTING connector

Power & DMX Input HARTING connector

### 3. <u>RCK model</u>

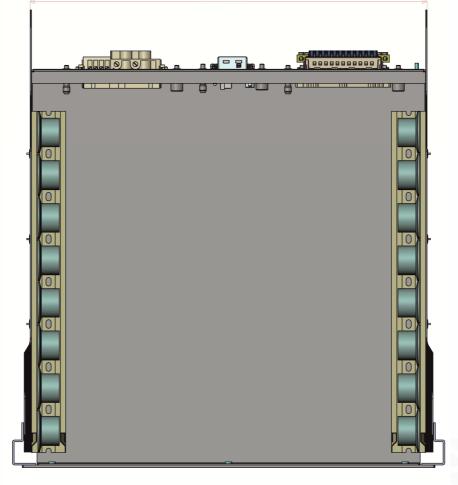


## 4. <u>RCK system specifications</u>



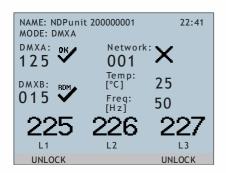


464 mm

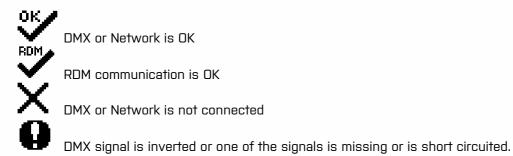


### 5. Navigating menu

The navigation of NDP12xx is done using two buttons and the Encoder. Initial menu indicates the user defined name of unit, working mode, DMX start addresses, the DMX/RDM statuses, Network status, inner system temperature, the main phase voltages and the frequency.



#### DMX/Network status:



#### Temperature status:



Number shows the temperature of dimmer in °C

Inverted number indicates WARNING. System temperature is higher or lower than the value selected by user, in this case 25 degrees of Celsius.

#### **Phase Voltages:**



225 The voltage of each phase in Volts is displayed at the bottom of LCD.

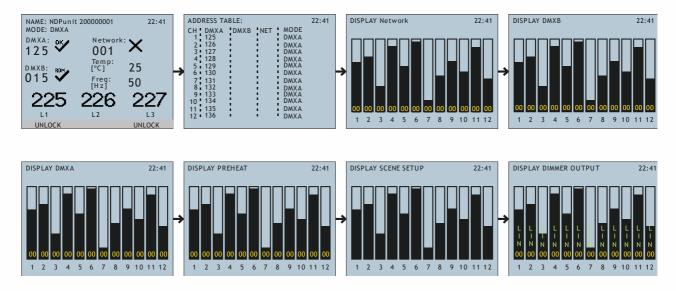
Inverted number indicates WARNING. Voltage of particular phase is higher or lower than the value selected by user.

#### Frequency status:



Number shows the line frequency in Hz.

Inverted number indicates WARNING. Line frequency is higher or lower than the value selected by user.



#### Rotating the Encoder shows the following quick view screens:

#### Address table:

Address table shows the mode of operation and address patch for every channel. First column shows the number of channel. Second and third columns are the user patched addresses for DMXA and DMXB inputs, respectively. Next column displays the user patched address for Network input. The last one indicates the mode of operation for every channel.

Possible modes of operation are DMXA, DMXB, Network, HTP, LTP and Manual.

#### **Display Network:**

Shows actual values on channels received over the Network.

#### **Display DMXB:**

Shows actual values on channels received over the DMXB input.

#### **Display DMXA:**

Shows actual values on channels received over the DMXA input.

#### **Display Preheat:**

Shows preheat values assigned by user.

#### **Display Scene Setup:**

Indicates the output values of dimmer scene generator. Active [latch]:[flash] shows the active latch scene and flash scenes.

#### **Display Dimmer Output:**

Indicates real output values on channels after dimmer signal processing.

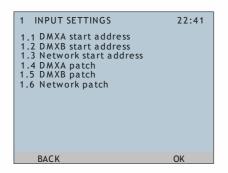
#### Menu navigation:

To enter the menu, unlock the device by pressing both buttons at the same time and press the Encoder. Rotate the Encoder to highlight the desired option and press the Encoder to enter:

1 2 3 4 5 6	INU: INPUT SETTINGS DIMMER MODE OUTPUT CURVES PREHEAT OUTPUT LIMITS AUTO. LAMP TEST SCENE SETUD	22:41
6 7 8 9	AUTO. LAMP TEST SCENE SETUP SETTINGS ABOUT	
	ВАСК	OK

- 1. INPUT SETTINGS
  - 1.1 DMXA start address
  - 1.2 DMXB start address
  - 1.3 Network start address
  - 1.4 DMXA patch
  - 1.5 DMXB patch
  - 1.6 Network patch
- 2. DIMMER MODE
  - 2.1 DMXA
  - 2.2 DMXB
  - 2.3 Network
  - 2.4 MANUAL
  - 2.5 PATCH
  - 2.6 HTP DMXA+DMXB
  - 2.7 LTP DMXA+DMXB
  - 2.8 HTP DMXA+Network
  - 2.9 LTP DMXA+Network
  - 2.10HTP DMXB+Network
  - 2.11 LTP DMXB+Network
  - 2.12HTP DMXA+DMXB+Network
  - 2.13LTP DMXA+DMXB+Network
- 3. OUTPUT CURVES
  - 3.1 Curves for all channels3.2 Curve per channel
  - 3.3 Setup of user curves
- 4. PREHEAT
- 5. OUTPUT LIMITS
- 6. AUTO. LAMP TEST
- 7. SCENE SETUP
  - 7.1 Modes & Delay 7.2 Scene 01-16
- 8. SETTINGS
  - 8.1 LCD BackLight
  - 8.2 Time/Date
  - 8.3 Network 8.4 Art-Net
  - 8.4 ATT-NE 8.5 sACN
  - 8.6 Passwords
  - 8.7 Warnings
  - 8.8 Memory
  - 8.9 USB Device
  - 8.10 Soft Reset
  - 8.11 Hard Reset
  - 8.12Software update
- 9. ABOUT

#### **1. INPUT SETTINGS**



Rotate the Encoder to select the desired input setting and press the Encoder or OK to confirm. To start the address setting, select submenu 1.1 for DMXA, 1.2 for DMXB, 1.3 for Network. A new screen will be shown.

22:41	22:41	22:41
start address dmxa: 125	start address dmxb: 015	START ADDRESS Network:
BACK PATCH OK	BACK PATCH OK	ВАСК РАТСН ОК

Rotate the Encoder until you reach the desired value of the start address and press OK. Remaining addresses will be incremented by one. To set different addresses for every channel, use the submenu 1.4 for DMXA, 1.5 for DMXB, 1.6 for Network or press the Encoder in the start address menu (PATCH).

PATCH ADDRESS DMXA:		22:41	PATCH ADD RESS DMXB:		22:41	PATCH ADDRESS Network:		22:41
1: 001	7:007		1:001	7:007		1:001	7:007	
2: 002	8:008		2:002	8:008		2:002	8:008	
3: 003	9:009		3: 003	9:009		3: 003	9:009	
4: 004	10:010		4:004	10: 010		4:004	10:010	
5:005	11:011		5:005	11:011		5: 005	11:011	
6: 006	12:012		6: 006	12:012		6: 006	12:012	
BACK	SET	OK	BACK	SET	OK	BACK	SET	OK

Press the Encoder for patch settings.

		22:41			22:41				22:41
PATCH ADDRESS			PATCH ADDRESS				PATCH ADDRESS		
DMXA:			DMXB:				Network:		
1: 001	7:007		1: 001	7:007			1:001	7:007	
2:002	8:008		2:002	8: 008			2:002	8:008	
3: 003	9:009		3: 003	9:009			3: 003	9:009	
4:004	10:010		4:004	10: 010			4:004	10:010	
5:005	11:011		5:005	11:011			5:005	11:011	
6:006	12: 012		6: 006	12: 012			6: 006	12:012	
<	END	>	<	END	>	$\leq$	<	END	>

Select the desired channel using left and right button. Rotate the Encoder to set the desired value of appropriate channel. Press the Encoder to quit the editing mode or navigate to the position before channel 1 or position after channel 12 and press OK to save changes. To discard changes, press BACK.

#### 2. DIMMER MODE

2DIMMER MODE22:412.1DMXA222.2DMXB232.3Network242.4MANUAL252.5PATCH262.6HTP DMXA+DMXB2.7LTP DMXA+DMXB2.8HTP DMXA+Network2.9LTP DMXA+Network2.10HTP DMXA+Network2.11LTP DMXB+Network	2DIMMER MODE22:412.2DMXB2.32.3Network2.42.4MANUAL2.52.5PATCH2.62.6HTP DMXA+DMXB2.7LTP DMXA+DMXB2.8HTP DMXA+Network2.9LTP DMXA+Network2.10HTP DMXB+Network2.11LTP DMXB+Network2.12HTP DMXA+DMXB+Network
2.12 HTP DMXA+DMXB+Network	2.13 LTP DMXA+DMXB+Network
BACK OK	BACK OK

To set the whole dimmer to the DMXA input, select 2.1 by rotation of the Encoder and confirm by pressing OK. For DMXB select 2.2, for Network select 2.3, for the manual mode select 2.4. Mode on each channel can be set individually using the submenu 2.5 PATCH.

ADDRESS TABLE:	22:41 ADDRESS T	ABLE:	22:41
CH   DMXA   DMXB   NET   MODE     1   125   DMXA   DMXA     2   126   DMXA   DMXA     3   127   DMXA   DMXA     4   128   DMXA   DMXA     5   129   DMXA   DMXA     6   130   DMXA   DMXA     7   131   DMXA   Q     9   133   DMXA   DMXA	CH DMXA 1 125 2 126 3 127 4 128 5 129 6 130 7 131 8 132 9 133	DMXB NET MODI DMX/ DMX/ DMX/ DMX/ DMXA DMXA DMXA DMXA	
10 134 DMXA 11 135 DMXA 12 136 DMXA	10 134 11 135 12 136	DMX A DMX A DMX A	A A
BACK SET	OK <	END	>

Enter the editing mode by pressing the Encoder. Navigate to proper item by pressing left and right button and select mode for channel by the Encoder. Address can be changed if selected modes are DMXA, DMXB, Network, HTP or LTP. The output value can be changed if the manual mode is selected. Press the Encoder to quit the editing mode. Press OK to store settings or BACK to discard settings.

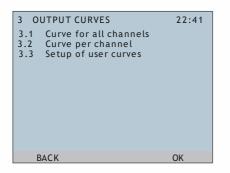
To set the dimmer in HTP or LTP mode, select one of the 2.6 – 2.13 items and press OK.

2.6 HTP DMXA+DMXB
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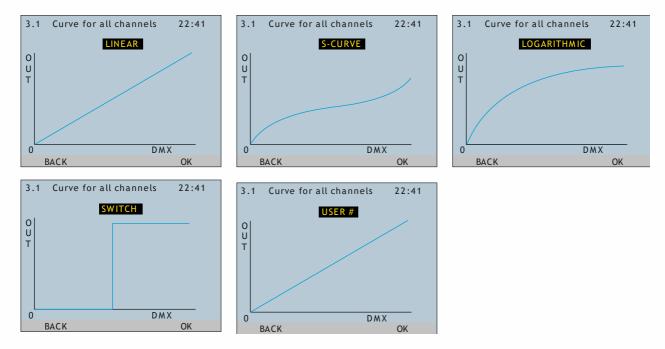
- 2.7 LTP DMXA+DMXB
- 2.8 HTP DMXA+Network
- 2.9 LTP DMXA+Network
- 2.10 HTP DMXB+Network
- 2.11 LTP DMXB+Network
- 2.12 HTP DMXA+DMXB+Network
- 2.13 LTP DMXA+DMXB+Network

#### **3. OUTPUT CURVES**

To set the output curves, enter the OUTPUT CURVES Menu.



To set one common output curve for the whole dimmer, select submenu 3.1. There are four options for output curves to choose from: LINEAR, S-CURVE, LOGARITHMIC AND SWITCH. Moreover, user can choose one of three curves (USER 1 – USER 3) defined by user in section 3.3.



Rotate the Encoder to choose one of the options and press OK to store the curve. To discard changes, press BACK.

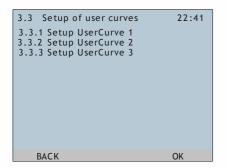
To set the curve for each channel individually, choose submenu 3.2.

3.2	Curve per c	hannel	22:41	3.2 C	urve per ch	annel	22:41
Ch. Ch. Ch. Ch. Ch. Ch. Ch. Ch. Ch. Ch.	10: LINEAR 11: LINEAR			Ch. 3: Ch. 4: Ch. 5: Ch. 6: Ch. 7: Ch. 8: Ch. 9:	LINEAR LINEAR LINEAR LINEAR LINEAR LINEAR LINEAR LINEAR LINEAR LINEAR		
	BACK	SET	OK		<	END	>

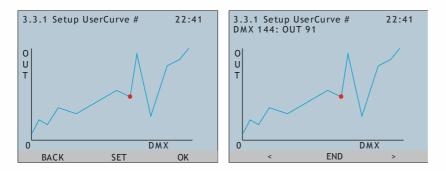
To enter the editing mode, press the Encoder (SET). Use left and right button to select the channel and rotate the Encoder to choose a curve for selected channel. Press Encoder to quit the editing

mode or navigate to the position before channel 1 or position after channel 12 and press OK to save changes or BACK to discard changes.

Apart from LINEAR, S-CURVE, LOGARITHMIC AND SWITCH curves, user can create his/her own curve. Up to three curves can be defined in section 3.3 Setup of user curves.



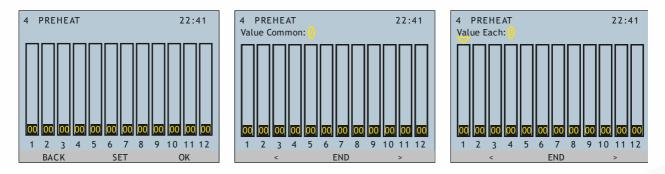
In the submenu, navigate onto one of three UserCurves using the Encoder and confirm by pressing the Encoder or OK button.



To amend the curve, press the Encoder (SET). Use left and right button to select the DMX address (selects every 16 - 0,16,32,48,... starting at 0 and ending at 255) and rotate the Encoder to select the output level (from 0 to 255) for selected DMX address. A red dot symbolizes the position of cursor. Press Encoder to quit the editing mode or navigate to the position before DMX address 0 or position after DMX address 255 and press OK to save changes or BACK to discard changes.

#### 4. PREHEAT

To set preheat, enter the PREHEAT Menu.



To enter the editing mode, press the Encoder (SET). Use left and right button to select the channel. First option is common preheat value setting and is followed by individual channel setting. When the option is selected, rotate the Encoder to set value for preheat. Press the Encoder to quit the editing mode or navigate to the position before Common Value or position after Value on channel 12 and press OK to save changes or BACK to discard changes.

#### **5. OUTPUT LIMITS**

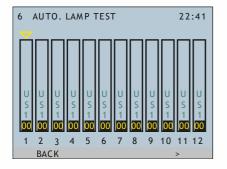
To set the output limits, enter the OUTPUT LIMITS Menu.

5   OUTPUT LIMITS     Ch.   1:   255 (100%)     Ch.   2:   255 (100%)     Ch.   3:   255 (100%)     Ch.   4:   255 (100%)     Ch.   4:   255 (100%)     Ch.   6:   255 (100%)     Ch.   7:   255 (100%)     Ch.   8:   255 (100%)     Ch.   9:   255 (100%)     Ch.   9:   255 (100%)     Ch.   10:   255 (100%)	22:41	5 OUTPUT LIMITS Ch. 1: 255 (100%) Ch. 2: 255 (100%) Ch. 3: 255 (100%) Ch. 4: 255 (100%) Ch. 5: 255 (100%) Ch. 6: 255 (100%) Ch. 7: 255 (100%) Ch. 8: 255 (100%) Ch. 9: 255 (100%) Ch. 10: 255 (100%)	22:41
Ch. 10: 255 (100%) Ch. 11: 255 (100%) Ch. 12: 255 (100%)		Ch. 10: 255 (100%) Ch. 11: 255 (100%) Ch. 12: 255 (100%)	
BACK SET	OK	< END	>

To enter the editing mode, press the Encoder (SET). Use left and right button to select the channel. When the option is selected, rotate the Encoder to set the value of output limit. First number shows the DMX address, second is the percentage. Press the Encoder to quit the editing mode or navigate to the position before channel 1 or position after channel 12 and press OK to save changes or BACK to discard changes.

#### **6. AUTOMATIC LAMP TEST**

Enter menu item number 6 to start automatic lamp test.



Each channel will be tested by increasing/decreasing the output value individually one by one. Press the right button to move on the next channel. Press BACK to quit the automatic lamp test.

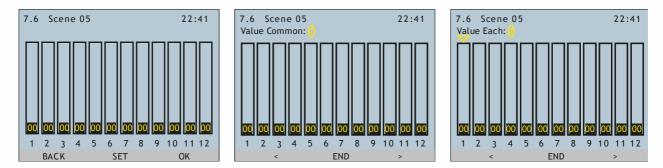
#### 7. SCENE SETUP

Select menu item 7 to enter the dimmer scene generator setup. Scene generator is controlled via first two channels of the DMXB input. First channel selects the scene number. Second channel activates the selected scene by receiving value higher than 127 from the DMXB input. To set up the generator, select submenu 7.1 Modes & Delay. Press the Encoder or OK to confirm.

7 SCENE SETUP 7.1 Modes & Delay 7.2 Scene 01 7.3 Scene 02 7.4 Scene 03 7.5 Scene 04 7.6 Scene 05 7.7 Scene 06 7.8 Scene 07 7.9 Scene 08 7.10 Scene 09 7.11 Scene 10 7.12 Scene 11	22:41	7 SCENE SETUP   7.6 Scene 05   7.7 Scene 06   7.8 Scene 07   7.9 Scene 08   7.10 Scene 09   7.11 Scene 10   7.12 Scene 11   7.13 Scene 12   7.14 Scene 13   7.15 Scene 14   7.16 Scene 15   7.17 Scene 16	22:
BACK	OK	ВАСК	ОК
1: OFF 2: OFF 3: OFF 4: OFF 5: OFF 6: OFF	9: OFF 10: OFF 11: OFF 12: OFF 13: OFF 14: OFF		
7: OFF 8: OFF Fade Speed: 64ms/st Mode:OFF	15: OFF 16: OFF		
BACK SET	OK		

To enter the editing mode, press the Encoder (SET). To change the scene mode, navigate to desired scene using right and left button and change the mode by rotating the Encoder. Possible modes are OFF, LATCH and FLASH. To change the fade speed, select Fade Speed. Fade speed is the time required to change step (ms/step). Scene generator modes are OFF, LTP/dimmer, LTP/channel, HTP/channel. Quit this submenu by pressing the Encoder (END). Press OK to save changes or BACK to discard changes.

To create or edit scene O1 – 16, select submenu 6.2 – 6.17 and press OK.



Enter the editing mode by pressing the Encoder (SET). Use right and left button to select the channel and rotate the Encoder to change the value of output. Quit the editing mode by pressing the Encoder (END). To save changes press OK or discard changes by pressing BACK.

#### 8. SETTINGS

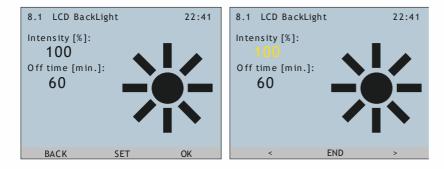
Access to various dimmer settings is available in menu section 8. SETTINGS.

8 S	ETTINGS	22:41
8.1	LCD BackLight	
8.2	Time/Date	
8.3	Network	
	Art-Net	
8.5	sACN	
	Passwords	
	Warnings	
	Memory	
	USB device	
	Soft reset	
	Hard reset	
8.12	Software update	
E	BACK	OK

Rotate the Encoder to reach the desired subsection and press the Encoder or OK to enter. Every subsection is described in detail below.

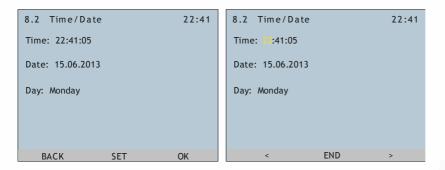
#### 8.1 LCD BackLight

To enter the editing mode, press the Encoder (SET). Rotate the Encoder to set desired backlight intensity value of LCD. Press the right button and rotate the Encoder to set the off time (in minutes). Press Encoder to quit the editing mode (END). Press OK to save the changes or press BACK to discard changes.



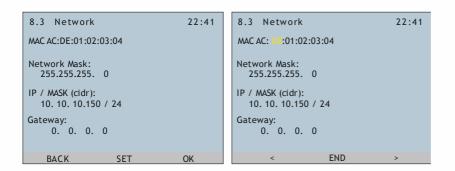
#### 8.2 Time/Date

Press the Encoder (SET) to enter the editing mode. Use left and right button to navigate to value to be changed. Set proper value by rolling the Encoder. Press the Encoder to quit the editing mode. Press OK to save changes or BACK to discard changes.



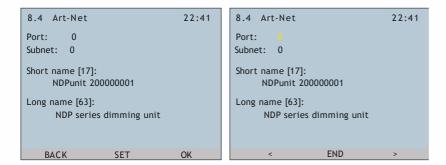
#### 8.3 Network

Enter the editing mode by pressing the Encoder (SET). Use left and right button to navigate to the value to be changed. Enter correct IP address. To set the network mask, insert the CIDR value after the slash. Press the Encoder to quit the editing mode. Press OK to store value or press BACK to discard changes.



#### 8.4 Art-Net

Press the Encoder to enter the editing mode. Select value to be changed. Navigate Port, Subnet, Short Name or Long Name items by pressing left and right buttons. Change values by rotating the Encoder. Press Encoder to exit the editing mode. Press OK to save the setup or BACK to discard changes.



#### 8.5 sACN

Rotate the Encoder to select the value of the sACN universe. Any number from 1 to 63999 including can be selected. Press the Encoder to reset the value. Press OK to save the setup or BACK to discard changes.

8.5 sACN		22:41
sACN universe:		
BACK	RESET	OK

#### 8.6 Passwords

Section Passwords includes three submenus for passwords in order of their level of priority; Keyboard being least prior, Admin the most.

8.6 Passwords	22:41
8.6.1 Keyboard	
8.6.2 User	
8.6.3 Admin	
BACK	OK

Rotate the Encoder to select the type of password to be set and confirm by a press of Encoder or OK button. One of the following screens will appear:

	22:41			22:41			22:41
Keyboard Password:		User Password:			Admin Password:		
0000		(	0000		0	0000	
BACK SET	ОК	BACK	SET	OK	ВАСК	SET	OK

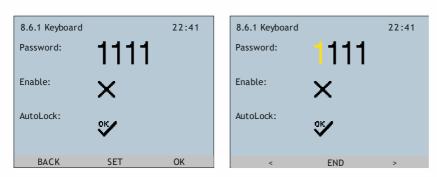
Here you have to enter the correct password. Rotate the Encoder to switch between types of password to be entered. You can only switch to password with higher priority. For Keyboard password setting, all kinds of passwords can be entered, for User password setting User and Admin passwords can be entered, for Admin password setting Admin password has to be entered. **By default, Keyboard password is 1111, User 1234 and Admin 0000.** 

Choose the type of password to be entered and press the Encoder (SET) to enter the password.

22:41	22:41	22:41
Keyboard Password:	User Password:	Admin Password:
0000	0000	0000
< END >	< END >	< END >

Rotate the Encoder to choose a proper value (from 0 to 9 including). Use left and right button to navigate to next/previous digit. After the password has been entered, navigate to the position before first digit or after last digit or press the Encoder (END). Press OK button to confirm. If the password is correct, an "OK" sign is displayed and the Password setting screen appears. An "ERR" sign means incorrect password; please try again.

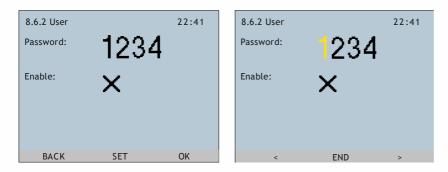
**8.6.1 Keyboard password** is the first level of NDP security. If Keyboard password option is enabled, correct password must be entered to unlock the initial menu of the dimmer. The Password setting screen shows currently set password, Enable and Auto lock options.



Enter the editing mode by pressing the Encoder (SET). Use left and right button to navigate to the value to be changed. Password consists of 4 integers. To activate the Keyboard password, select Enable and rotate the Encoder to change the cross icon to OK icon. Now the Keyboard password is active. Auto-lock function provides automatic lock option in case of inactivity for more than 3 seconds. To enable this function, navigate to AutoLock and enable it by rolling the Encoder. To quit the editing mode, press the Encoder (END). To save changes press OK, to discard changes press BACK.

#### <u>By default, Keyboard password is 1111, disabled and Auto lock disabled.</u>

**8.6.2 User password** is the second level of NDP security. If User password option is enabled, correct User or Admin password must be entered to access the DMXA, DMXB and Network patch addresses and to set the output limits, Time/Date, Network, Art-Net, sACN, warnings and resets. The Password setting screen shows currently set password and Enable option.



Enter the editing mode by pressing the Encoder (SET). Use left and right button to navigate to the value to be changed. Password consists of 4 integers. To activate the User password, select Enable and rotate the Encoder to change the cross icon to OK icon. Now the User password is active. To quit the editing mode, press the Encoder (END). To save changes press OK, to discard changes press BACK.

#### By default, User password is 1234 and disabled.

**8.6.3 Admin password** is the highest level of NDP security. If Admin password option is enabled, correct Admin password must be entered to set Time/Date and warnings and to do the hard reset. The Password setting screen shows currently set password and Enable option.

8.6.3 Admin		22:41	8.6.3 Admin		22:41
Password:	0000		Password:	0000	
Enable:	×		Enable:	×	
BACK	SET	OK	<	END	>

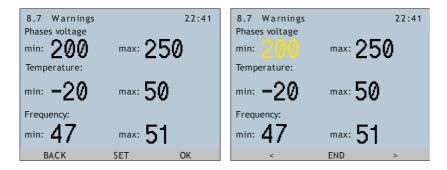
Enter the editing mode by pressing the Encoder (SET). Use left and right button to navigate to the value to be changed. Password consists of 4 integers. To activate the Admin password, select Enable and rotate the Encoder to change the cross icon to OK icon. Now the Admin password is active. To quit the editing mode, press the Encoder (END). To save changes press OK, to discard changes press BACK.

#### By default, Admin password is 0000 and enabled.

#### 8.7 Warnings

This setup consists of limit values for NDP dimmer function. In this setup, minimal and maximal phase voltages, operating temperature and frequency can be changed. Hard limits set by factory are wider than user selectable values. User can set narrow range of operating limits to meet his/her requirements.

Enter the editing mode by pressing the Encoder (SET). Navigate to the value to be changed using left and right buttons and set it to the required value by rolling the Encoder. Quit the editing mode by pressing the Encoder (END). To store changes, press OK; to discard, press BACK.



#### 8.8 Memory /available only when USB Device is connected/

This feature gives a possibility to store the current setting of dimmer and to load it later. To store the current settings of dimmer, rotate the Encoder to the Memory place you wish to save settings to and press SAVE. Free memory place is indicated with [free] string. If memory place is used, the name of unit, date and time are showed under the Memory place. To reload configuration, rotate the Encoder to the memory place you wish to reload and press LOAD. Now the settings of dimmer are reloaded. To erase memory rotate the Encoder to the Memory place to the Memory place you wish to erase and press ERASE.

8.8 Memory		22:41	8.8 Memory		22:4
Memory 01 [free]			Memory 14 [free]		
Memory 02 [free]			Memory 15 [free]		
Memory 03 [free]			Memory 16 [free]		
Memory 04 [free]			Memory 17 [free]		
BACK	SET	OK	BACK	SET	OK

#### 8.9 USB Device /available only when USB Device is connected/

The USB Device section shows the information about files stored on USB Mass storage device connected to front USB port. The information includes the total number of files, their names and the type of selected file (only bitmap is supported).

Use the Encoder to scroll to the desired file and press OK.

8.9 USB Device		22:41
Files: 05		
1. file1.bin		
2. file2.bin		
3. file3.bin		
4. file4.bin		
5. file5.nbp		
Selected:		
Bitmaps		
BACK	SET	OK

#### 8.10 Soft reset

This option allows setting NDP to the user standard. Soft reset will set factory defaults for:

- 1. DMX Start Addresses and Patch
- 2. Dimmer mode
- 3. Preheat & Manual values
- 4. Art-Net universes and names
- 5. sACN universe



Press the right button to proceed or the left button to return.

#### 8.11 Hard reset

Hard reset sets the whole NDP to factory defaults. Hard reset menu includes items in the Soft reset one, but is extended with other items:

- 1. DMX Start Addresses and Patch
- 2. Dimmer mode
- 3. Preheat & Manual values
- 4. Art-Net universes and names
- 5. sACN universe
- 6. Unlock user & keyboard
- 7. Network address
- 8. Backlight
- 9. Keyboard/User passwords
- 10. Curves
- 11. Warnings



Press the right button to proceed or the left button to return.

#### 8.12 Software update

In this submenu, user can update software of the NDP unit. Ask the manufacturer for a boot loader and further information on how to proceed.

8.12 Softwar	e update	22:41
UNTIL	OTH REBOOT BU ACTIVE BOOTLO YED (ABOUT 60 S	ADER
REBOOT	BACK	REBOOT

Press both buttons at the same time and hold them until BOOTLOADER active screen is shown to start the update. Press the Encoder (BACK) to return to the Settings menu.

#### 9. ABOUT

This screen provides overall information about current NDP dimmer pack. It shows:

NAME: NDP12 unit	22:41	
MAC: AC:DE:48:1E:84:81 IP: 18.15.13.152 NM: 255.255.255.128 GW: 8.18.9.3		
SW: 2.5 SN: 200000001 RDM ID: 29A9011E8481		
UPTIME: 1234h56m54s SRS Light Design www.srslight.com		
ΒΔϹΚ		

- 1. NAME of the unit
- 2. MAC Address
- 3. IP Address
- 4. Network Mask (NM)
- 5. Gateway (GW)
- 6. Software version (SW)
- 7. Serial Number (SN)
- 8. RDM ID
- 9. Overall UP Time

Press the left button (BACK) to return to the main menu.

#### <u>Technical data</u>

#### **Dimming capacity**

NDPx1210 RCK	12x10A 12x2.3kW
NDPx1213 RCK	12x13A 12x3kW
NDPx1216 RCK	12x16A 12x3.7kW
NDPx6025 RCK	6x25A 6x5.7kw
NDPx6032 RCK	6x32A 6x7.3kW

#### NDP RCK Dimensions & Housing:

436.5 x 132 x 438 mm, Steel housing with gray powder coating

#### Weight:

NDP12xx RCK: 26 kg

#### Interference suppression:

In-line precision filters: 400us

#### **Protection:**

Short circuit protection by MCB Optional 1P+N short circuit protection Double thermal protection

#### Ventilation:

100% duty cycle Temperature-controlled fan Automatic shutdown at critical temperature

#### Other:

All safety features are displayed on the display Soft start Controlling of special functions via display, three keys and Encoder Circuit breakers on the front panel Easy change of power output connectors

#### **Display Functions:**

Voltage of all 3 phases Single channel values Inner temperature Load status check DMX signal status Art-Net status

#### Digital menu functions:

Preheat per channel Dimmer curve per channel Single channel patch Variable channel set DMX processing with fast output response Hold function for output in case of the DMX data failure

# CE Declaration of conformity

We hereby declare that the equipment described below conforms to its design, type and version introduced by us to the fundamental safety and health requirements of the EU Guidelines Machines.

Manufacturer:

SRS Group s.r.o. Rybnicna 36/D 83107 Bratislava Slovakia

Declares that the product:

Name of product: Network Dimming Pack with RCK system Type/version: NDP12xx RCK, NDP60xx RCK, NDPN60xx RCK, NDPN12xx RCK

Correspond to the following specifications:

EN 60-950-1:2003 EN 55103-1:2000 EN 55103-2:2000 EN 60-598-2-17 1989 including amendments 1/2 EN 60-598-1 1992 including amendment 1

CE marking directive 93/68 EEC Low voltage directive (2006/95/EG) EMC directive (2004/108/EWG)

Bratislava, 29 December 2013

Robert Sloboda

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