SRS LIGHTING

series400 Dimming Bar

Instruction Manual

Models:

DDP-BAR4

DDP-BAR6

version 1.0 since 3 February 2020

IMPORTANT SAFETY INFORMATION

All safety and operating instructions should be read before the equipment is installed or operated. The following general safety precautions have to be observed during all phases of operation, service, and repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and 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. Do not operate this equipment near water or in areas with wet floors, or in a high humidity atmosphere. It should never be placed near or over a heat register or other source of heated air or it should not be installed or operated without proper ventilation.

Power connections

This equipment must be earthed.
Let the equipment adapt to the environment for at least 10 minutes after unpacking.

Output connection

The output terminals are located on the front panel of the dimmer. Live, neutral and earth connections should be done to all load equipment.

The DDP-BAR4/DDP-BAR6 is a 4-channel/6-channel dimmer for dimming of 1kW power PAR lights on each output. It should be controlled by a DMX console via standard 3 or 5pin DMX connectors or via the Wireless DMX connection port. This unit is ideal for applications requiring the use of a small device without a dimmer pack or to have a DMX installation via wireless connection.

Features:
- **Four outputs secured with mini MCB**
- **Convectional cooling without fan**
- **Wide setup options /limits, preheat, curves/**
- **Single-phase operation**
- **W-DMX bargraph**
- **Easy setup using display and encoder**
- **Multiple options of output connectors**
- **Optional 1P+N protection**
- **DDP-BAR4   single-phase operation**
- **DDP-BAR6   3-phase operation**

Front view:

Detailed front view:
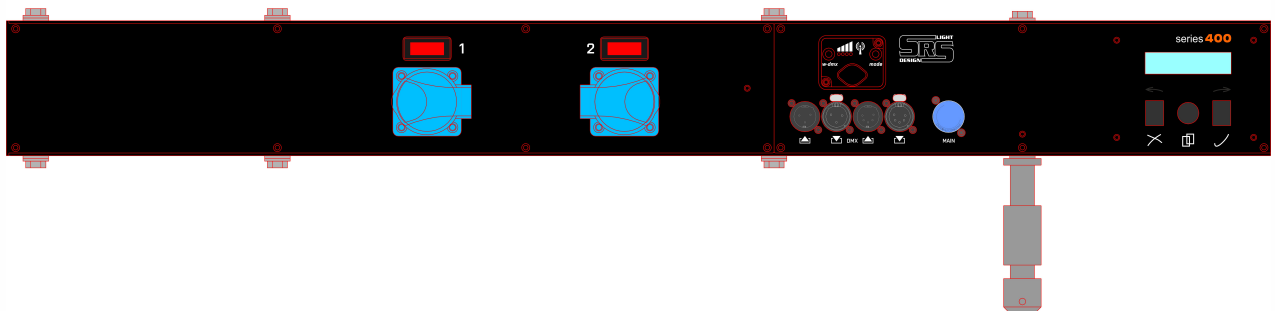
- PowerCon input AC230/400V, 20A max or PG cable entry
- DMX input/output via NC3/NC5 DMX input/output connector
- Wireless DMX module
- Mini MCBs
- Spigot with M10
- 12x M10 mounting point for PAR lights

Top/bottom panel:

- 6x M10 mounting point for PAR lights or C/clamp
- 1x spigot M10 connection
- 2x secure wire mounting point

Side view:
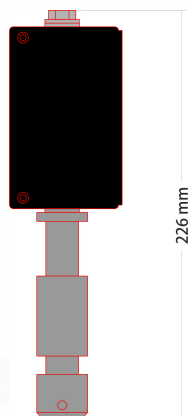
Operation modes

DMX operation

mode button

Signal bargraph

PRO TRX

mode

w-dmx

W-DMX button
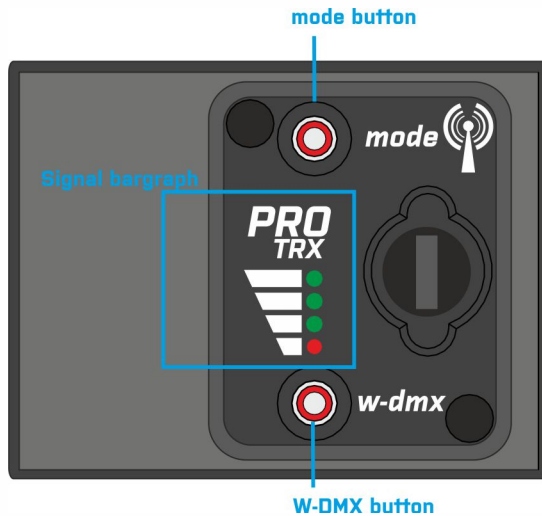
For DMX operation, turn off the W-DMX module by holding the MODE button. The MODE button should be RED.

Connect the DMX cable to DMX-IN connector and control the DDP-BAR with DMX connected to the DMX port or with manual operation via menu.

Wireless DMX/DMX operation

For the W-DMX/DMX operation, turn the W-DMX module on by holding the MODE button. MODE button should light GREEN, W-DMX button shows the state of W-DMX receiver.

There is an automatic back-up of the W-DMX line using the cable connection. If the W-DMX is linked to the transmitter and the signal quality is poor, the DDP-BAR will be controlled from cable DMX signal in/thru port. In normal state, when the W-DMX signal quality is good, the DDP-BAR will be controlled from Wireless DMX connection.

The W-DMX button has only one function – logging off from the linked transmitter.

<u>W-DMX LED signalization in the Receiver mode:</u>

Not linked to any Transmitter

Linked to Transmitter + Missing DMX on Transmitter

Linked to Transmitter + Receiving DMX

<u>Receiver Mode unlinked</u>
MODE LED is GREEN and the receiver W-DMX LED is RED. The bargraph does not show the signal strength.

<u>Receiver Mode linked</u>
MODE LED is GREEN and the receiver W-DMX LED is RED or GREEN according to the DMX connection on the Transmitter's side. The bargraph shows the signal strength.

Navigation menu

The first menu indicates the DMX start address, the DMX status, the temperature inside of the dimmer and the main voltage.

DMX status:

NC   DMX is not connected
ER   swap 2/3 on the DMX cable
OK   DMX is OK

```
DMX:216-NC T:37C
       230V
```

```
DMX:216-OK T:37C
       230V
```

```
DMX:216-ER T:37C
       230V
```

Temperature status:

\#   Number shows the temperature of dimmer in °C
OL!   Warning: The temperature inside of the dimmer is higher than 75°C.
               Outputs are switched off.

```
DMX:216-OK T:37C
       230V
```

```
DMX:216-OK T:OL!
       230V
```

Roll the encoder to see the output bar graph.

```
DIMM
OUT:
```

Menu navigation:

Press the Encoder to enter the main menu.
Roll the Encoder and select one of the following items by pressing it:

1. START ADDRESS
2. PREHEAT
3. CURVE
4. AUTOMATIC TEST
5. LOCK CONTROLS
6. LIMIT OUTPUTS
7. SETUP /to enter the SETUP, press the ESC and ENTER buttons at the same time/
    1. DMX MODE
    2. ANALOGUE MODE
    3. MANUAL MODE
    4. MIX MODE
    5. PATCH
    6. SCENE
    7. LOST DMX
    8. FACTORY RESET

Set the DMX address

```
SET DMX     < 1 >   ☑   DMX START: <001>   ☑        DMX ADDRESS
START ADDRESS    ▸         ESC ◂    ▸ ENTER         – 001 – SAVED !
```

Press the ENTER button.

Roll the Encoder and set the DMX start address - [001-512].
Press the ENTER button to confirm.

Preheat

```
PREHEAT     < 2 >   ☑   SET COMM.PREHEAT   ☑   SET COMM.PREHEAT
EACH  ◂  ▸ COMMON        < +000 >       ▸        SAVED !
       ↻
                   ☒   PREHEAT  < 000 >   ⧉   SAVE SETTINGS?   ☑        SAVED!
                        – CHANNEL: 01 +        ESC ◂    ▸ ENTER       ESC ◂    ▸ ENTER
```
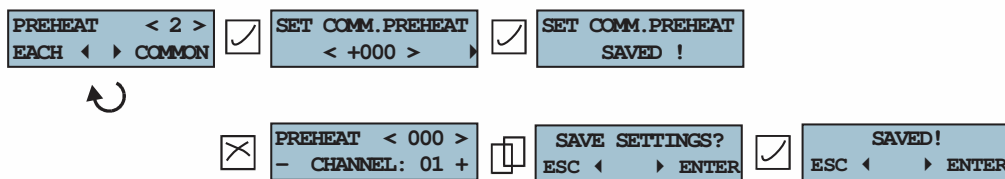
Press the left button to select the preheat for each channel individually or the right button to set one common preheat for all channels. If necessary, you can use preheat 0-100% for a fast control of the dimmer output.

Dimmer curves

```
CURVES      < 3 >   ☑   SET COMMON CURVE   ☑   COMMON CURVE
EACH  ◂  ▸ COMMON        < 0 >   LINEAR  ▸       – 0 –   SET !
       ↻                       ↻

                        SET COMMON CURVE   ☑   COMMON CURVE
                        < 1 >   S-CURVE ▸       – 1 –   SET !
                              ↻

                        SET COMMON CURVE   ☑   COMMON CURVE
                        < 2 >   LOG.    ▸       – 2 –   SET !
                              ↻

                        SET COMMON CURVE   ☑   COMMON CURVE
                        < 3 >   SWITCH  ▸       – 3 –   SET !

                   ☒   <   S-CURVE    >   ⧉   SAVE SETTINGS?   ☑        SAVED!
                        – CHANNEL :01 +        ESC ◂    ▸ ENTER       ESC ◂    ▸ ENTER
```
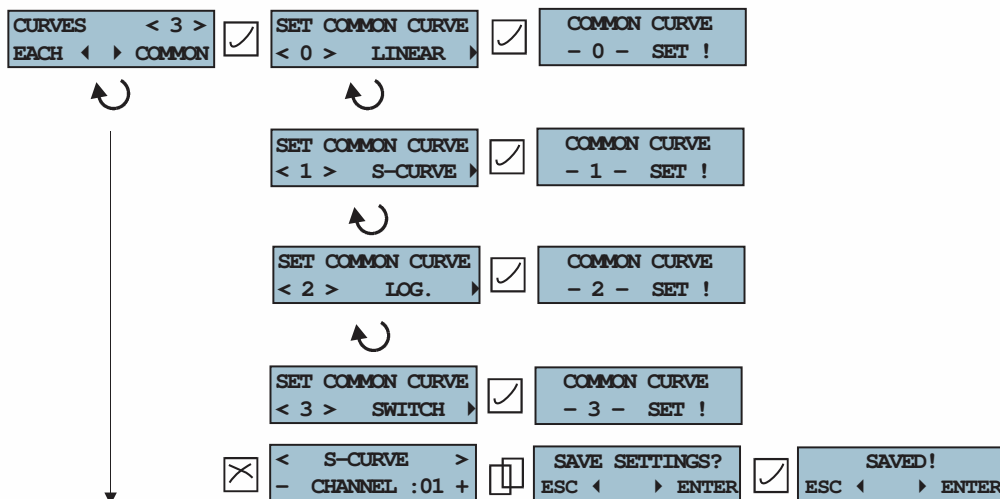
Press the left button to select the curves for each channel individually or the right button to set one common set of curves for all channels.

Automatic lamp test

```
AUTOMATIC  < 4 >   ☑   DIMM
LAMP TEST        ▸     OUT: ▉_____
       ↻
```
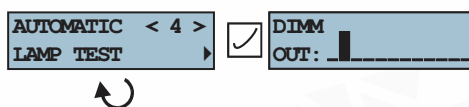
Press the ENTER button to start the test.
Each channel will be tested by increasing/decreasing the output value per channel.

Lock Code

| LOCK: < 5 >
SET CODE   ▶ | ✓ | ENTER OLD CODE:
<?000> | ⬚ | ENTER NEW CODE:
<?000> | ⬚ | NEW LOCK CODE IS
<1234> |
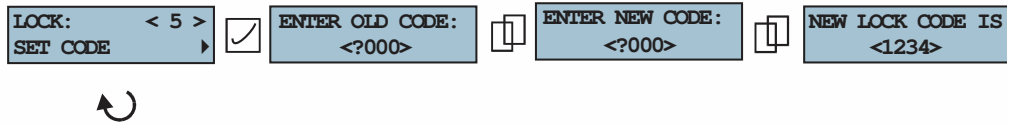
Enter the old code (factory setting is 0000). Press the Encoder /MENU/ button.
Enter a new code and press the Encoder /MENU/ button. The new code is now saved. To lock the menu, press both buttons at the same time. To unlock the menu, press the Encoder /MENU/ and enter the code. The menu is now unlocked. If you need to restore the code, please ask for service manual.

Limits

| LIMITS   < 6 >
EACH ◀ ▶ COMMON | ✓ | SET COMM. LIMITS
< 100% >   ▶ |

| ✗ | LIMIT   < 100% >
– CHANNEL: 01 + | ⬚ | SAVE SETTINGS?
ESC ◀   ▶ ENTER | ✓ | SAVED!
ESC ◀   ▶ ENTER |
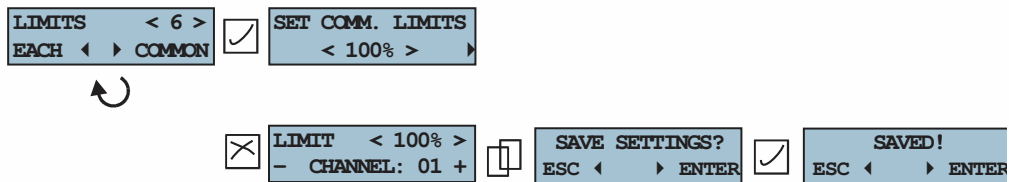
Press the left button to select the limit for each channel individually or the right button to set one common limit for all channels. Limit 100% means that output will go to 100%. Limit 50% means that outputs will go to 50% maximum. You can set the limit from 0-100%.

Setup

| SETUP   < 7 >
PRESS ◀ ▶ PRESS | ✓
✗ |

Press the ESC and ENTER buttons at the same time to enter the SETUP MODE.

The dimmer has six modes of control:
- DMX mode /controlled by DMX/
- Analogue mode /controlled by 0-10V/
- Manual mode /controlled by menu of dimmer/
- Mix input mode /LTP or HTP rule/
- Patch mode
- Scene control

DMX mode

| SETUP: < 1 >
DMX MODE   ▶ | ✓ | DMX START: <001>
ESC ◀   ▶ ENTER | ✓ | DMX ADDRESS
– 001 – SAVED ! |

Roll the Encoder and set the DMX address - (001-512).
Press the ENTER button to confirm.
The dimmer works only with the DMX input now.

Analog mode

| SETUP: < 2 >
 ANALOG MODE ▶ | ☑ | SWITCH TO ANALOG
 ESC ◀ ▶ ENTER | ☑ | ANALOG MODE SET |

Press the ENTER button.
The dimmer works only with 0-10V control now.

Note: Some devices that are not equipped with analogue port will not work in analogue mode. Consult more options with your dealer of manufacturer.

Manual mode

| SETUP < 3 >
 MANUAL MODE ▶ | ☑ | SWITCH TO MANUAL
 ESC ◀ ▶ ENTER | ☑ | <02>
 183: ▮_____ |

Press the ENTER button.
The dimmer works only with manual control now. You can set output channel per channel.

Mix mode

SETUP < 4 > MIX INPUT MODE ▶	☑	MIX MODE: < 1 > OFF ▶	☑	MIXED INPUT MODE !SWITCHED OFF!
		MIX MODE: < 2 > HTP ▶	☑	MIXED INPUT MODE ! SET TO HTP !
		MIX MODE: < 3 > LTP ▶	☑	MIXED INPUT MODE ! SET TO LTP !

The dimmer is switched to the HTP or LTP mix mode now. In this mode, the dimmer is controlled via DMX and 0-10V input at same time.

Patch mode

| SETUP < 5 >
 PATCH ▶ | ☑ | INPUT: OUT
 ◀ MANUAL:000 01 ▶ | ☐ | SAVE SETTINGS?
 ESC ◀ ▶ ENTER | ☑ | SAVED!
 ESC ◀ ▶ ENTER |

Press the right button to select the dimmer channel. Press the left button to select the control mode (DMX, analogue or manual mode) for each channel. Use the Encoder to assign control mode for each channel.

Scene mode

| SETUP < 6 >
 SCENE ▶ | ☑ | SCENE < 01 >
 ENABLE ▶ | ☑ | ENABLE SCENE?
 ESC ◀ ▶ ENTER | ☑ | SCENE ENABLED
 SAVED! |
| | | SCENE < 01 >
 DISABLE ▶ | | DISABLE SCENE?
 ESC ◀ ▶ ENTER | | SCENE DISABLED
 SAVED! |
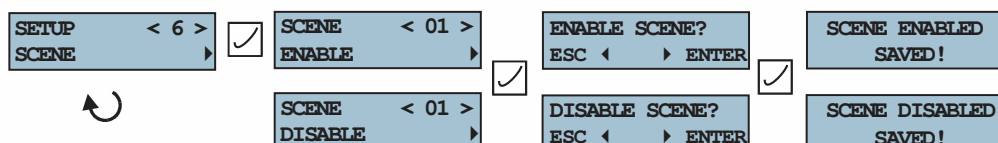
In menu scene, you can enable or disable the scene function. Press the ENTER button to confirm your selection.

Note: Some devices that are not equipped with analogue port will not work in the scene mode. That is, because the analogue port is also used as a scene port. Consult more options with your dealer of manufacturer.

Flash scene

```
SCENE      < 02 >        FLASH:<12345678>         SAVE SETTINGS?        SAVED!
FLASH 12345678 ▶    ☑    -    SCENE: 1   +    ▯    ESC ◄    ▶ ENTER   ☑   ESC ◄    ▶ ENTER

                         FLASH:<2345678 >
                         -    SCENE: 1   +

                         FLASH:<12345678>
                         -    SCENE: 1   +
```
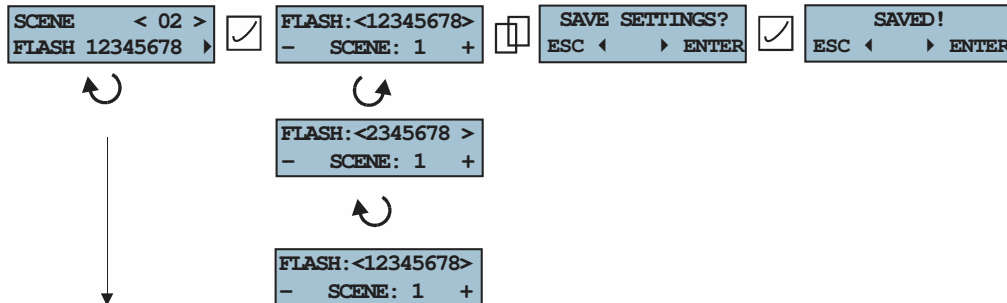
The flash scene is a scene mode, where scenes are called by a single press of button. When any other button on HLC is pressed, the other scene is called. You can preset up to 8 scenes. A scene that is to be Flash must be added to the Flash scene list. Turn the Encoder until you get to the desired scene number and confirm by ENTER button. To remove a scene from the Flash scene list, turn the Encoder to the scene number and press the ESC button. A single press of the Encoder saves all settings.

Scene fade speed

```
SCENE      < 03 >        SPEED <   SLOW  >         SPEED <  SLOW  >
FADE SPEED (2) ▶    ☑    ESC ◄    ▶ ENTER    ☑    SAVED!

                         SPEED <   NORM  >         SPEED <  NORM  >
                         ESC ◄    ▶ ENTER    ☑    SAVED!

                         SPEED    < FAST >         SPEED    < FAST >
                         ESC ◄    ▶ ENTER    ☑    SAVED!
```
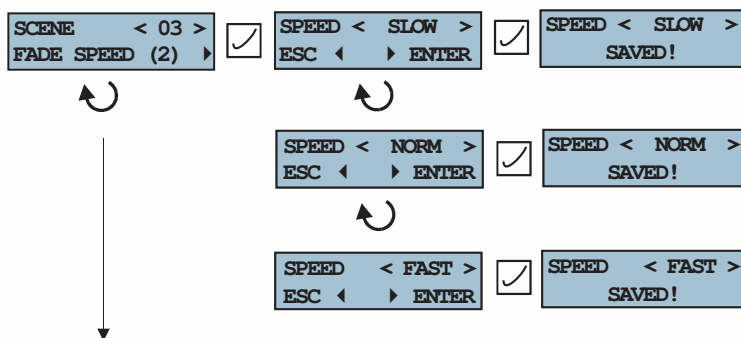
The fade speed can be set in three timeframes: SLOW, NORMAL or FAST. According to the setup, the scene will be changed to the selected speed when the scene is called.

Save output of dimmer to scene

```
SCENE      < 04 >        SEL.SCENE < 01 >         SEL.SCENE < 01 >
SAVE OUTPUT    ▶    ☑    ECS ◄    ▶ ENTER    ☑    SAVED!
```

You can easily save output of dimmer to any scene. This means that you can save actual light output from dimmer to a scene and call it later remotely. Select SCENE by turning the encoder and save it by ENTER button. This value will then be processed by a curve. If you later change the preheat on channel, the scene will remain unchanged.

Set up the scene manually

```
SCENE      < 05 >        SCENE 01 < 255 >        SAVE SETTINGS?          SAVED!
SETUP SCENE 01 ▶    ✓    - CHANNEL: 01 +    ⬚   ESC ◄    ▶ ENTER    ✓   ESC ◄      ▶ ENTER
```
↻

You can set up/record up to 15 scenes in the dimmer and select their LATCH/FLASH function. Use ESC/ENTER button for scroll over channels and the Encoder for selection of channel value and its confirmation. Then set up the output levels for each scene individually and confirm by pressing the ENTER button.

DMX lost setup

```
SETUP        < 7 >        LOST DMX:  < 1 >        LOSS OF DMX
LOST DMX         ▶    ✓   DMX HOLD         ▶    ✓     DMX HOLD
```
↻   ↻

```
                          LOST DMX:  < 2 >        LOSS OF DMX
                          OUT TO 0%        ▶    ✓     SET TO 0%
```
                          ↻

```
                          LOST DMX:  < 3 >        LOSS OF DMX
                          OUT TO 100%      ▶    ✓     SET TO 100%
```
                          ↻

```
                          LOST DMX:  < 4 >        SEL.SCENE < 01 >        LOSS OF DMX
                          LOAD SCENE 01    ▶    ✓   ESC ◄    ▶ ENTER  ✓    LOAD SCENE 01
```
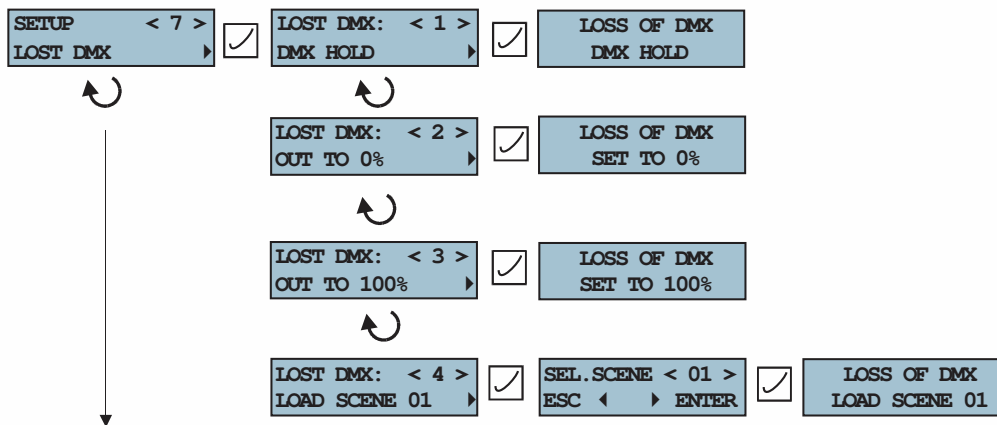
There are four options to set if the DMX signal from DMX port is disconnected:
- Outputs will hold the last DMX data frame.
- Outputs will fade to zero.
- Outputs will go to 100%.
- Outputs will be changed to a selected SCENE (0-15).

Factory reset

```
SETUP        < 8 >        RESET DEVICE?          PLEASE WAIT
FACTORY RESET    ▶    ✓   ESC ◄    ▶ ENTER  ✓    FOR REBOOT
```

The following are the factory defaults:
- DMX mode
- DMX start address: 001
- Preheat: 000
- Curve 01: linear
- Mixed mode: OFF
- Limits: 100%
- Lock code: 0000
- Scene: disabled
- All scenes are erased
- Flash scene: 1-8
- Latch scene: 9-15
- Fade speed: NORM
- Lost DMX: hold active

Service menu

Contact your distributor or manufacturer to find out how to enter the service menu. In this menu, you are able to change the type of dimmer. You can set up the new lock code if the old one has been lost or calibrate the voltage metering and the global preheat.

```
DDP S400 v.56
SRS LIGHT DESIGN
```

Hold

```
SERVICE CODE:          Service menu         ENTER NEW CODE:       NEW LOCK CODE IS
    <?000>           1. New code    ▶          <?000>                 <1234>


                       Service menu          Cal. L1   (+002V)     SAVE SETTINGS?          SAVED!
                     2. Calibration ▶        228V  230V  231V      ESC ◀    ▶ ENTER     ESC ◀    ▶ ENTER


                                             Cal. L2   (+002V)
                                             228V  230V  231V


                                             Cal. L3   (+002V)
                                             228V  230V  231V


                       Service menu          Channels  < 12 >      Channels  < 12 >
                     3. Channels    ▶        ESC ◀    ▶ ENTER          SAVED !


                       Service menu          PREHEAT   < 001 >      PREHEAT   < 001 >
                     4. Preheat     ▶        ESC ◀    ▶ ENTER          SAVED !
```

Menu tree

```
DDP S400 v.56
SRS LIGHT DESIGN
```
↓
```
DMX:216-OK T:37C
228V  230V  231V
```
↻
```
DIMM
OUT:▐▌▌▖▗▌▖▐▌▌
```

```
SET DMX     < 1 >      DMX START: <001>      DMX ADDRESS
START ADDRESS    ▶  ☑  ESC ◀   ▶ ENTER  ☑  – 001 – SAVED !
```
↻
```
PREHEAT     < 2 >      SET COMM.PREHEAT      SET COMM.PREHEAT
EACH ◀ ▶ COMMON  ☑  < +000 >      ▶  ☑  SAVED !
```
↻
```
                  ☒  PREHEAT  < 000 >      SAVE SETTINGS?         SAVED!
                     – CHANNEL: 01 +      ESC ◀   ▶ ENTER  ☑  ESC ◀   ▶ ENTER
```

```
CURVES      < 3 >      SET COMMON CURVE      COMMON CURVE
EACH ◀ ▶ COMMON  ☑  < 0 >    LINEAR ▶  ☑  – 0 –  SET !
```
↻   ↻
```
                     SET COMMON CURVE      COMMON CURVE
                     < 1 >   S-CURVE ▶  ☑  – 1 –  SET !
```
                      ↻
```
                     SET COMMON CURVE      COMMON CURVE
                     < 2 >    LOG.   ▶  ☑  – 2 –  SET !
```
                      ↻
```
                     SET COMMON CURVE      COMMON CURVE
                     < 3 >   SWITCH  ▶  ☑  – 3 –  SET !
```
```
                  ☒  <   S-CURVE   >      SAVE SETTINGS?         SAVED!
                     – CHANNEL :01 +      ESC ◀   ▶ ENTER  ☑  ESC ◀   ▶ ENTER
```

```
AUTOMATIC   < 4 >      DIMM
LAMP TEST        ▶  ☑  OUT:▐_____
```
↻
```
LOCK:       < 5 >      ENTER OLD CODE:      ENTER NEW CODE:      NEW LOCK CODE IS
SET CODE         ▶  ☑  <?000>      <?000>      <1234>
```
↻
```
LIMITS      < 6 >      SET COMM. LIMITS
EACH ◀ ▶ COMMON  ☑  < 100% >      ▶
```
↻
```
                  ☒  LIMIT   < 100% >      SAVE SETTINGS?         SAVED!
                     – CHANNEL: 01 +      ESC ◀   ▶ ENTER  ☑  ESC ◀   ▶ ENTER
```

Setup menu tree

```
SETUP       < 7 >      ☑   SETUP:      < 1 >    ☑   DMX START: <001>   ☑   DMX ADDRESS
PRESS  ◀  ▶ PRESS      ☒   DMX MODE      ▶          ESC  ◀   ▶ ENTER        – 001 – SAVED !

                           ↻

                           SETUP:      < 2 >    ☑   SWITCH TO ANALOG   ☑   ANALOG MODE SET
                           ANALOG MODE   ▶          ESC  ◀   ▶ ENTER

                           ↻

                           SETUP       < 3 >    ☑   SWITCH TO MANUAL   ☑   <02>
                           MANUAL MODE   ▶          ESC  ◀   ▶ ENTER        183: ▮_____

                           ↻

                           SETUP       < 4 >    ☑   MIX MODE:   < 1 >   ☑   MIXED INPUT MODE
                           MIX INPUT MODE ▶          OFF           ▶          !SWITCHED OFF!

                           ↻                        ↻

                                                    MIX MODE:   < 2 >   ☑   MIXED INPUT MODE
                                                    HTP           ▶          ! SET TO HTP !

                                                    ↻

                                                    MIX MODE:   < 3 >   ☑   MIXED INPUT MODE
                                                    LTP           ▶          ! SET TO LTP !

                           SETUP       < 5 >    ☑   INPUT:      OUT    ⧉   SAVE SETTINGS?     ☑   SAVED!
                           PATCH         ▶          ◀ MANUAL:000 01 ▶      ESC  ◀   ▶ ENTER        ESC  ◀   ▶ ENTER

                           ↻

                           SETUP       < 6 >    ☑   SCENE       < 01 >  ☑   ENABLE SCENE?      SCENE ENABLED
                           SCENE         ▶          ENABLE        ▶          ESC  ◀   ▶ ENTER        SAVED!

                           ↻                                          ☑   DISABLE SCENE?     SCENE DISABLED
                                                    SCENE       < 01 >      ESC  ◀   ▶ ENTER        SAVED!
                                                    DISABLE       ▶

                                                    ↻

                                                    SCENE       < 02 >  ☑   FLASH:<12345678>   ⧉   SAVE SETTINGS?     ☑   SAVED!
                                                    FLASH 12345678 ▶          –   SCENE: 1  +      ESC  ◀   ▶ ENTER        ESC  ◀   ▶ ENTER

                                                    ↻                        ↺

                                                                             FLASH:<2345678 >
                                                                             –   SCENE: 1  +

                                                                             ↻

                                                                             FLASH:<12345678>
                                                                             –   SCENE: 1  +

                                                    SCENE       < 03 >  ☑   SPEED <  SLOW  >    ☑   SPEED <  SLOW  >
                                                    FADE SPEED (2) ▶          ESC  ◀   ▶ ENTER        SAVED!

                                                    ↻                        ↻

                                                                             SPEED <  NORM  >   ☑   SPEED <  NORM  >
                                                                             ESC  ◀   ▶ ENTER        SAVED!

                                                                             ↻

                                                                             SPEED    < FAST >  ☑   SPEED    < FAST >
                                                                             ESC  ◀   ▶ ENTER        SAVED!

                                                    SCENE       < 04 >  ☑   SEL.SCENE < 01 >   ☑   SEL.SCENE < 01 >
                                                    SAVE OUTPUT   ▶          ECS  ◀   ▶ ENTER        SAVED!

                                                    ↻

                                                    SCENE       < 05 >  ☑   SCENE 01 < 255 >   ⧉   SAVE SETTINGS?     ☑   SAVED!
                                                    SETUP SCENE 01 ▶          –  CHANNEL: 01 +      ESC  ◀   ▶ ENTER        ESC  ◀   ▶ ENTER

                                                    ↻

                           SETUP       < 7 >    ☑   LOST DMX:   < 1 >   ☑   LOSS OF DMX
                           LOST DMX      ▶          DMX HOLD      ▶          DMX HOLD

                           ↻                        ↻

                                                    LOST DMX:   < 2 >   ☑   LOSS OF DMX
                                                    OUT TO 0%     ▶          SET TO 0%

                                                    ↻

                                                    LOST DMX:   < 3 >   ☑   LOSS OF DMX
                                                    OUT TO 100%   ▶          SET TO 100%

                                                    ↻

                                                    LOST DMX:   < 4 >   ☑   SEL.SCENE < 01 >   ☑   LOSS OF DMX
                                                    LOAD SCENE 01 ▶          ESC  ◀   ▶ ENTER        LOAD SCENE 01

                           SETUP       < 8 >    ☑   RESET DEVICE?      ☑   PLEASE WAIT
                           FACTORY RESET ▶          ESC  ◀   ▶ ENTER        FOR REBOOT
```

Technical data

Power supply:
DDP-BAR4   AC230V, 50Hz
DDP-BAR6   AC3x230/400V, 43-60Hz
Neutrik® PowerCon, or PG's with 30A rating

Power Cable:
H07RNF cable 3m, 3G2.5 mm^2

Operating temperature:
-10, 45°C

Housing and dimensions:
Aluminium housing   1514x 100 x 620 mm,   9.7kg

Dimming capacity:
4x 6A
4x 10A
4x 13A
4x 16A

6x 6A
6x 10A
6x 13A
6x 16A

Interference suppression:
Phase-angle control with triac and in-line precision filters 400us

Protection/Ventilation:
Short circuit protection by MCB
100% duty cycle
Double thermal protection
Automatic shutdown at critical temperature

CE

DECLARATION OF CONFORMITY

Name of producer: SRS Group s.r.o.

Address of producer: Rybnicna 36/D, SK- 83106 Bratislava, Slovak Republic

Declares that the product

Name of product: Digital Dimmer Pack
Type:

DDP-BAR406, DDP-BAR4010, DDP-BAR4013, DDP-BAR4016
DDP-BAR606, DDP-BAR6010, DDP-BAR6013, DDP-BAR6016

Corresponds to the following product specifications:

EN60065, resp. EN60950-1
EN55103-1:2009
55103-2:2009
EN55014
EN55011

Additional information:
All DMX512 and analogue inputs and outputs must be shielded, and the shielding must be connected to the ground respective to the case of the corresponding plug. The unit and all connected apparatuses must also be earthed via main cable. Always check for correct shielding of the device.

Bratislava, 10 May 2011   Robert Sloboda

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member