



Wall-Mount Dimmer Unit

Instruction Manual

Models:

DP16 WM

DP32 WM

version 1.0 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.

1. General

IMPORTANT INSTRUCTIONS!

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

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 connections

This equipment must be earthed.

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

Connect the power cable correctly – 3-way (L+N+PE).

Output connection

The output terminals are located inside the dimmer. Live, neutral and earth connections must be made to all load equipment.

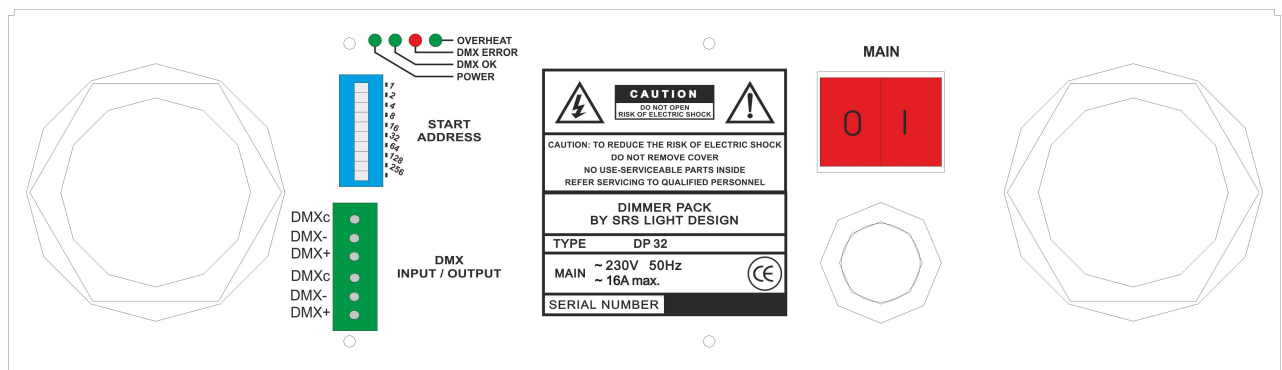
DMX Input connection

DMX connectors are located on the rear panel for IN and OUT connections. These also facilitate the use of a 1200hm low impedance terminator if the dimmer is the last equipment on the DMX line. DMX input is optically isolated.

2. Functions and Control



Front panel:

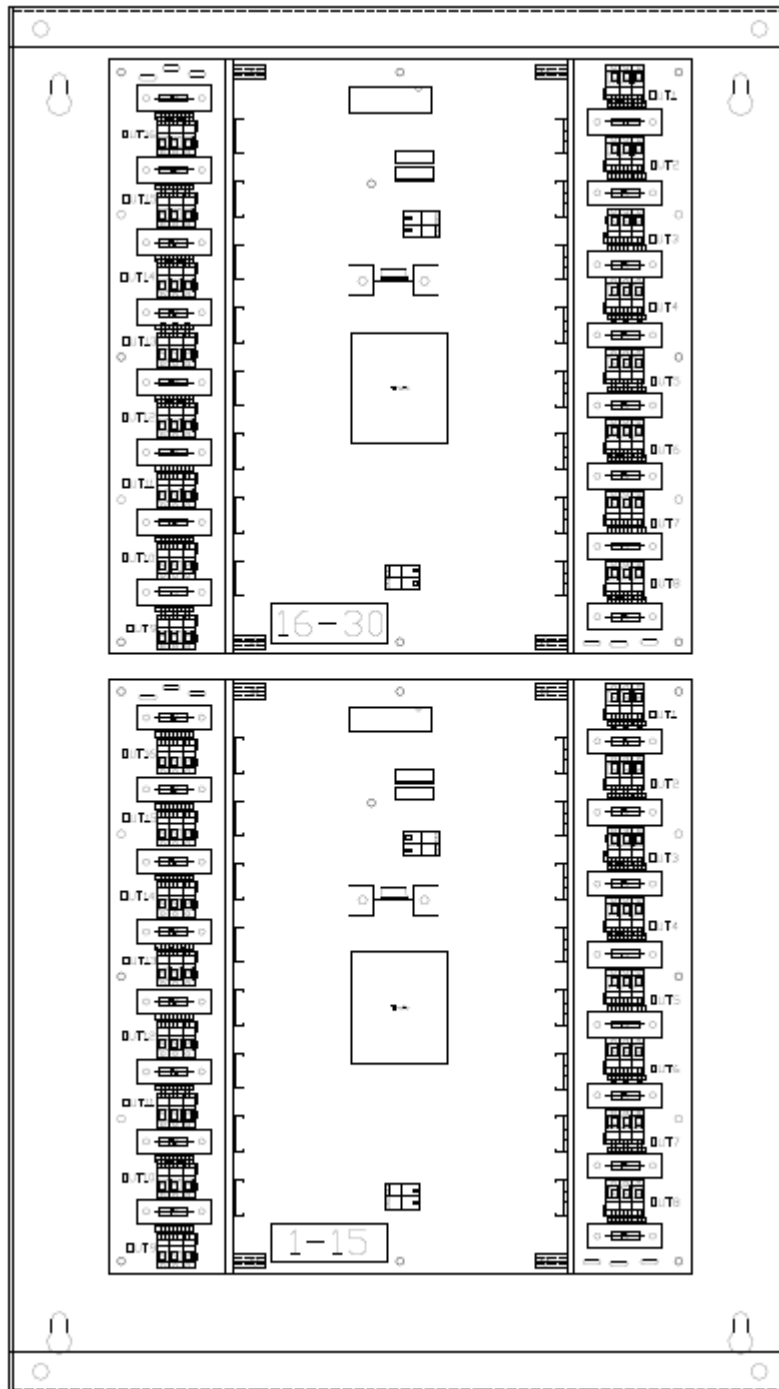


1. Main Switch 16A
2. DMX IN/THRU connectors
3. DMX start address selector
4. POWER indication
5. DMX signal indication
6. OVERHEAT indication
7. Mains cable input /3G1.5mm²/
8. Power output glands

After the connection of dimmer to mains AC230/50Hz power is made, it can be turned on using the MAIN switch. DMX OK and ERROR LEDs are off when there is no DMX signal. If the DMX ERROR LED is lit – switch the data lines on DMX. If the DMX signal is connected in right polarity, the DMX OK LED is green.

Set the DMX start address using a binary switch. The unit is operated by 16 or 32 control channels. Last switch /#10/ is used for DMX hold function – when the DMX signal is off, output of dimming channels will stay in last position.

Top view of DP32 WM:



16 or 32 WAGO terminal blocks for direct connection of bulbs are located inside the dimmer on the power board. Each output is equipped with a separate fuse. All output cables from the terminal blocks must go through the power output glands located on top and bottom sides of the device.

Always connect all three terminals to the light source – L, N and PE!

3. Technical data

Maximum capacity:

32 x 100W bulbs

16 x 200W bulbs

Total maximum current of unit is 16A

Interference suppression:

Phase-angle control via triac and in-line filter.

Protection:

Short circuit protection by time lag fuses for each channel.

Ventilation:

100% duty cycle

Conventional cooling

Automatic warning at selected temperature

Automatic shutdown at critical temperatures

Power Cable:

H07RN-F 3 x 2.5 mm²

Yellow-green PE

Blue N

Black L

Housing, dimensions & weight:

Steel housing with gray powder coating

DP16 WM 309 x 319 x 93 mm 6.2kg

DP32 WM 560 x 319 x 93 mm 7.5kg

Pin out for the DMX connectors:

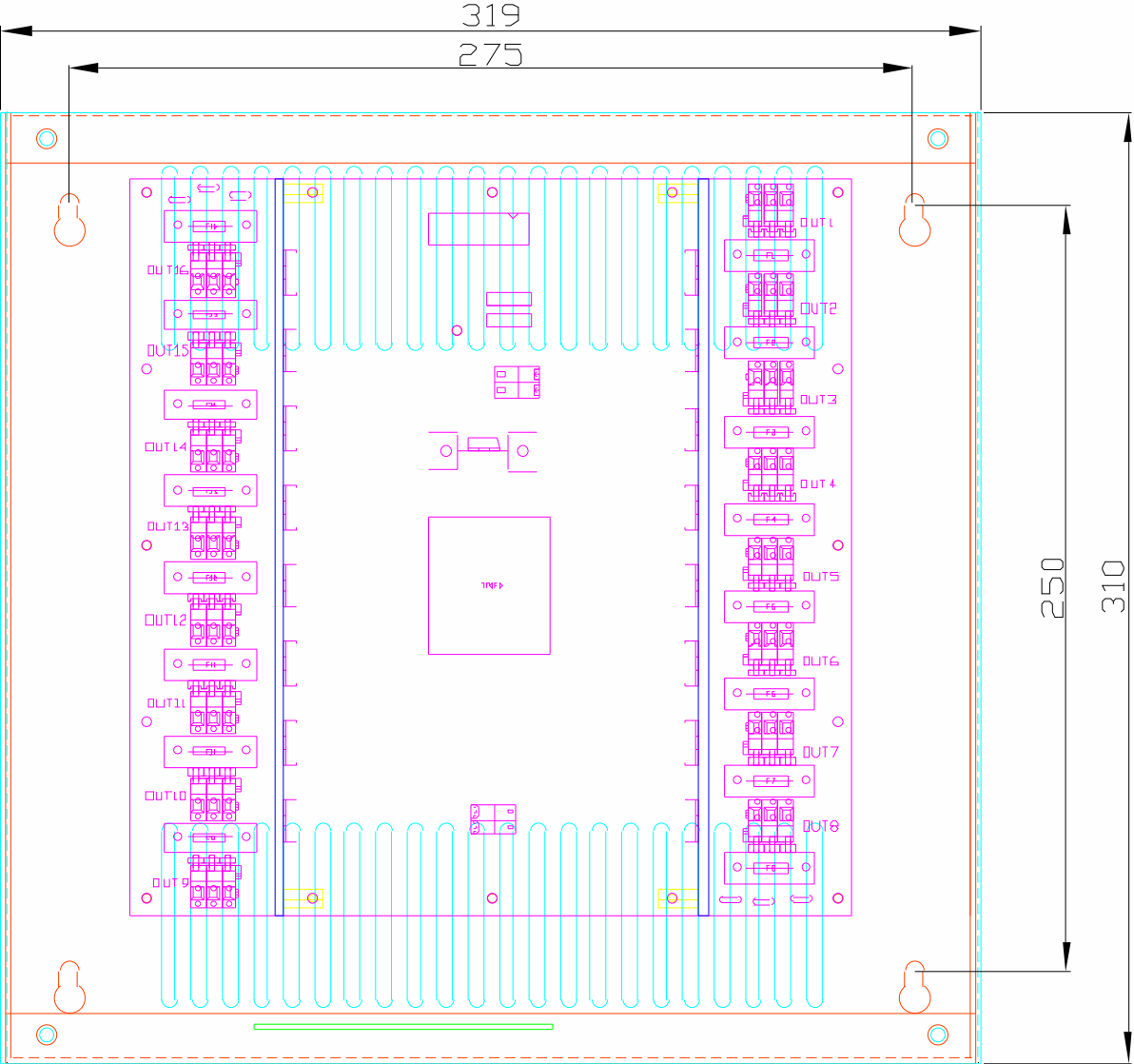
Pin 1 Data common (not connected to earth)

Pin 2 Data -

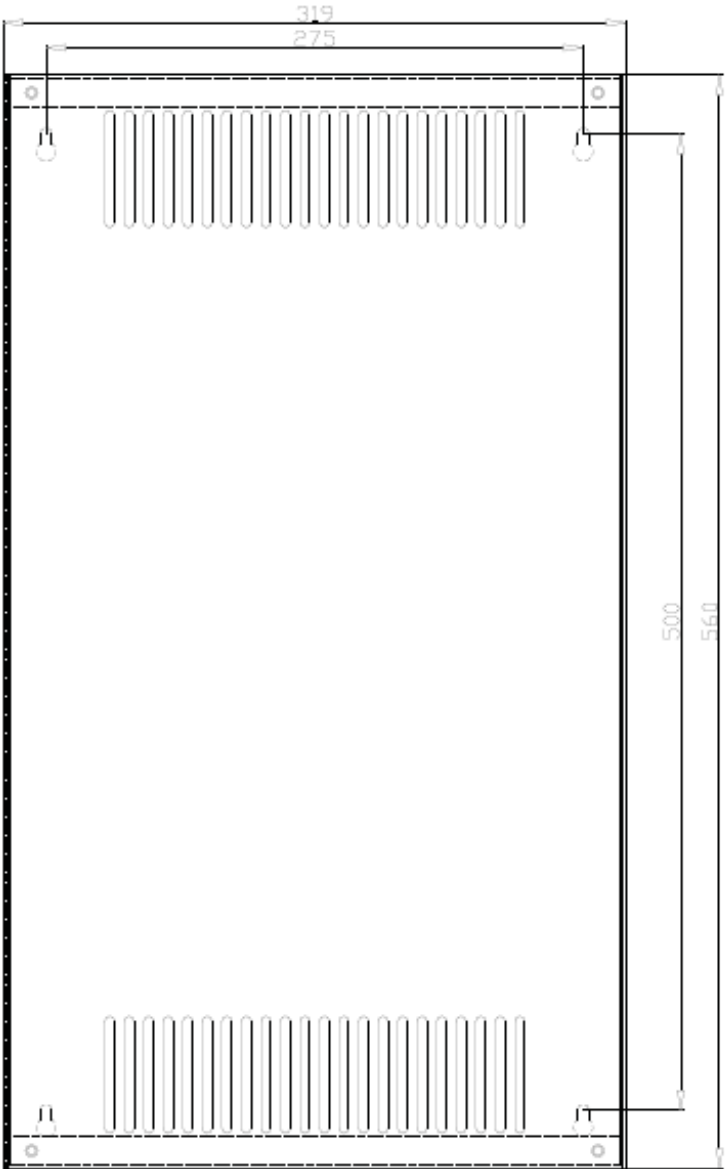
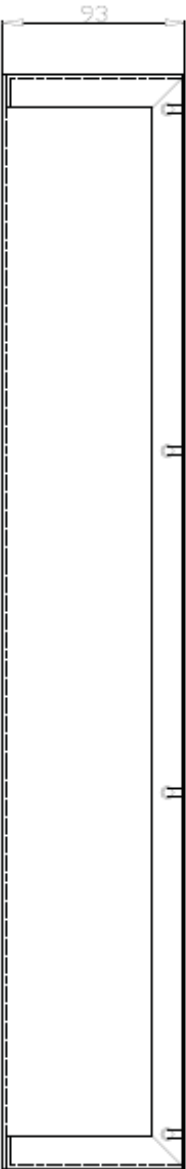
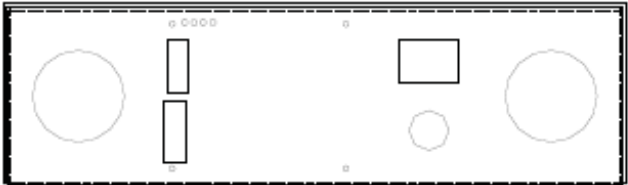
Pin 3 Data +

DMX thru is connected in ratio 1:1 to the input screw terminal.

Mechanical dimensions DP16



Mechanical dimensions DP32



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Document: DP32.DP16WM_en_manual_M053 | Version 1.0 | Actual as of: 3 February 2020



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