

Qualitron  
**PWMREP4 4**  
**Channels**  
**Amplifier / Repeater**



# Qualitron PWMREP4 4 Channels Amplifier / Repeater Installation Guide

[Home](#) » [Qualitron](#) » Qualitron PWMREP4 4 Channels Amplifier / Repeater Installation Guide 

## Contents

- [1 Qualitron PWMREP4 4 Channels Amplifier / Repeater](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Technical Data](#)
- [5 Documents / Resources](#)
  - [5.1 References](#)
- [6 Related Posts](#)

# Qualitron

**Qualitron PWMREP4 4 Channels Amplifier / Repeater**



## Product Information

### Specifications:

- **Model:** PWMREP4
- **Type:** Amplifier / Repeater
- **Channels:** 4 channels (RGB/RGBW/CT/DIM)
- **Power Supply Voltage:** 12-24VDC
- **Power Factor:** 0.98
- **Maximum Current:** 20A
- **Efficiency:** >96%

### Product Usage Instructions

1. **Power Connection:** Connect the product to a power supply with a voltage range of 12-24VDC.
2. **Channel Setup:** Configure the 4 channels for RGB, RGBW, CT, or DIM functionalities based on your requirements.
3. **Signal Amplification:** Use the amplifier/repeater to boost and extend the signal for connected RGB/RGBW/CT/DIM devices.
4. **Efficiency Management:** Monitor the product's efficiency (>96%) to ensure optimal performance.

### Frequently Asked Questions (FAQ):

1. **Q: What is the recommended power supply for the PWMREP4?**  
A: The recommended power supply voltage for the PWMREP4 is within the range of 12-24VDC.
2. **Q: How many channels can be controlled with the PWMREP4?**  
A: The PWMREP4 can control up to 4 channels, supporting RGB, RGBW, CT, or DIM functionalities.

## Technical Data

- Rated supply voltage 12..24VDC
- Power factor 0,98
- Max. main current 20A
- Efficiency >96%
- Standby power <0,5W
- Output Vin-0,1V
- Input 4X PWM single channel
- Input 1X PWM both channels
- Input current 10mA single channel
- Signal cable length 10 m with 0.5 – 2.5mmq
- Power Cable length 2m 4mmq Keep Short as possible
- Operating frequencies up to 1KHz PWM common anode
- Regulation Linear or exponential
- Max output current 4 ch 4 x 5A
- Max output current 3ch 3 x 6A
- Min Output load 480W@24V 240W@12V
- Min Output load 10W
- Protections Supplied by power supply
- Insulation Class II SELV
- Signal Connections Screw connectors 0.5-1.5mmq
- Output connections 4mmq rail connectors
- Operating temperature 10°C ... +45°C
- TC point 70°
- Storage temperature 15°C ... +60°C
- Dimensions LxPxA 138x40x29 mm
- Weight 340g
- Protection degree IP 40

## Safety note

Installation of this device may only be carried out by specialist staff .

Switch off the mains supply before device connection Keep this document in a safe place

Respect the safety and accident prevention regulations Dispose of according to instructions

## Standard and Directives

2014/35/EU (LVD); 2014/30/EU (EMC); RoHs 2011/65/EU + 2015/863/EU (RoHs); 2009/125/ECODESIGN regulation (EU) n°2019/2020 and 341/2021 amendment EN 61347-2-11:2001 + A1:2017; EN 61347-1:2015 EN 55015:2019 + A11:2020; EN 61000-3-3:2013; EN 61457:2009; EN IEC 61000-3-2:2019 + A1:2021 EN 63000:2018 EN IEC 62442-3:2022

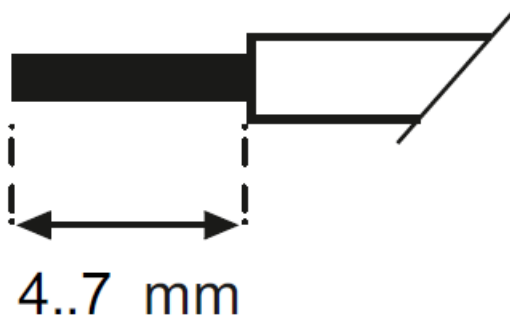
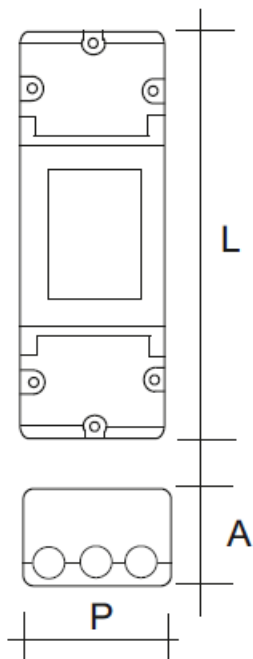
## Areas of application

The device may only:

- be used for the specified applications.
- be used for safe installation in dry and clean environment.

- be installed in such a way that access is only possible using a tool
- Respect label data

#### Dimensions (mm)



#### Connections

1.5–4 mm<sup>2</sup> A WG 15..11  
fine-stranded a fili sottili



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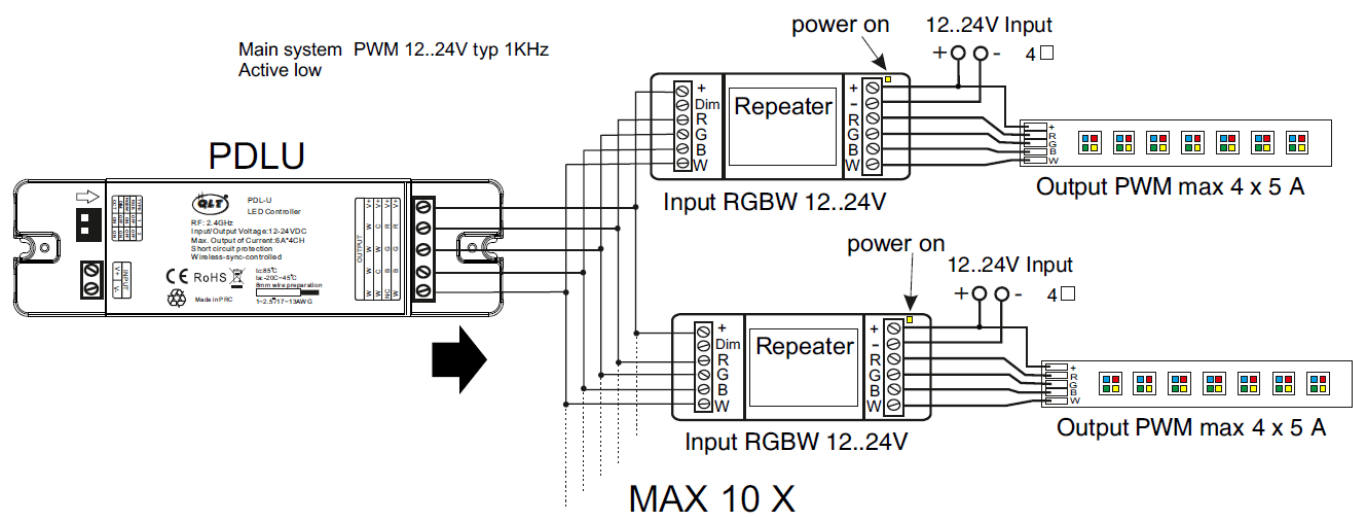
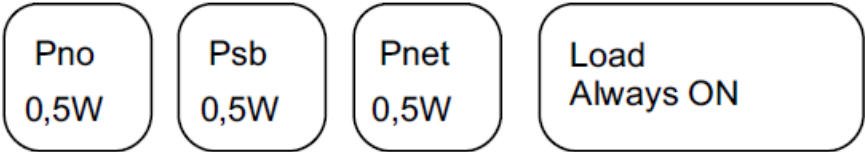
Inner Package

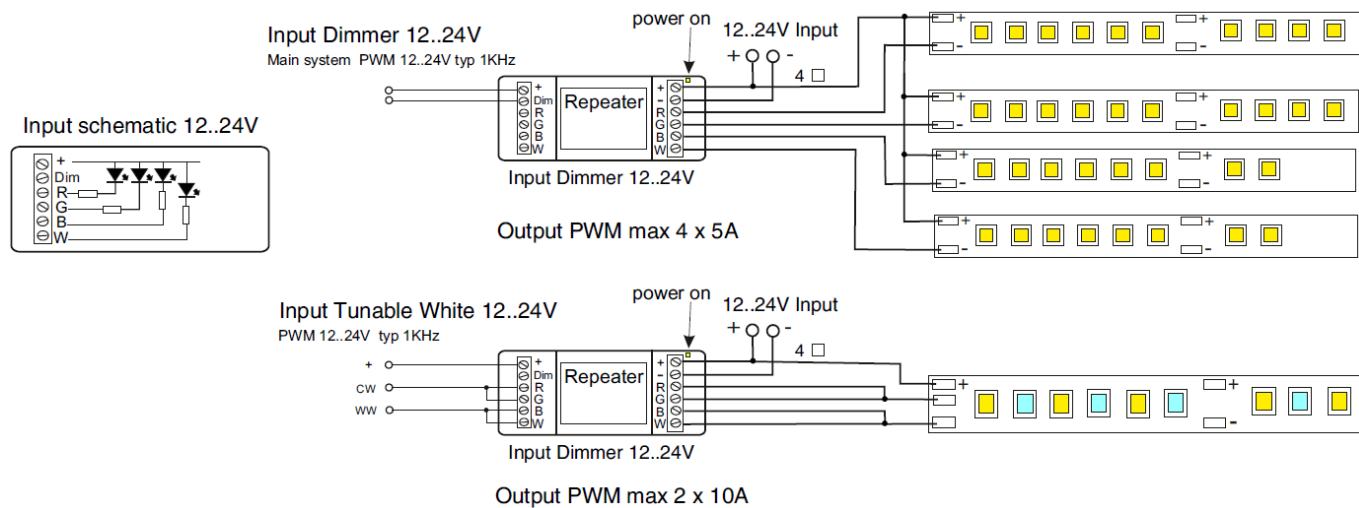


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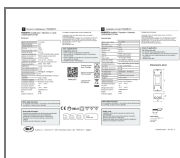


The Device





## Documents / Resources



[Qualitron PWMREP4 4 Channels Amplifier / Repeater](#) [pdf] Installation Guide  
QLT, PWMREP4 4 Channels Amplifier Repeater, PWMREP4, 4 Channels Amplifier Repeater, A  
mplifier Repeater, Repeater

## References

- [QLT - Qualitron | Elettronica applicata all'illuminazione | Led](#)
- [User Manual](#)

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