Shelly RGBWW Pro WiFi 5-Channel DIN Rail Lighting Controller

Model: ProRGBWWPM

Manufacturer: SHELLY

EAN: 3800235268216

Product Code: 1737211

R2,236

Shelly RGBWW Pro WiFi 5-channel DIN-rail lighting controller

Shelly RGBWW Pro PM is a 5-channel professional DIN-rail mounted LED lighting controller. It allows you to manage five independent light channels or multicolor RGB and CCT strips, and with precise power measurement, it allows you to monitor voltage, current and power consumption in real time. The controller offers both Wi-Fi and Bluetooth connectivity, as well as an Ethernet port for flexibility in residential and industrial installations. The device works without the need for an additional hub.

Flexible control profiles

The device supports four operating profiles: RGB + CCT, CCT x2, RGB + 2x Light and Light x5. In the Light x5 profile, five outputs can be controlled independently, giving maximum configuration

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freedom. The RGB + CCT mode, on the other hand, allows simultaneous control of color and color temperature of light.

Built-in energy measurement

The Shelly RGBWW Pro PM is equipped with the function of measuring active power, apparent power, power factor and energy (basic active and reactive). The user gains access to accurate energy consumption data for each light source, allowing better planning of consumption and increased energy efficiency.

Wi-Fi, LAN and Bluetooth connectivity

The device can operate simultaneously over Wi-Fi and LAN, and can also act as a Wi-Fi signal booster or BLE gateway. It offers reliable local network communication and remote access from the Shelly Smart Control app. Configuration can also be done via the built-in web interface.

High level of security

Thanks to built-in protection against overheating, overvoltage and overload, the Shelly RGBWW Pro PM reacts instantly in case of dangerous conditions - it shuts down channels and sends notifications. In addition, the device's housing is made of flame-retardant plastic (class V-0), which increases the safety of the entire installation.

Intelligent scenes and automations

The controller supports up to 20 schedules, HTTP/HTTPS webhooks and advanced mjS scripts, allowing you to create complex operating scenarios. You can control light according to sunrise and sunset, set brightness transition time and brightness and color temperature limits.

Precise control and easy operation

Shelly RGBWW Pro PM works with buttons, switches and analog potentiometers (10 kΩ). It allows night mode configuration, independent adjustment of each channel, as well as detailed settings of transitions, minimum brightness or color temperature for each output. The user also has access to

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event history and the ability to use the KVS data storage function.

Management via the Shelly app

The Shelly RGBWW Pro PM works with the free Shelly Smart Control app, which allows you to manage the device locally and remotely. Using it, you can configure settings, control lighting, create schedules and monitor energy consumption. You'll also gain access to event history.

Manufacturer	Shelly
Model	ProRGBWWPM
Dimensions	Approximately 94 × 19 × 69 mm
Weight	61 g
Max. torque for tightening screw connectors	0.4 Nm
Wire cross section	0.5 to 2.5 mm² / 20 to 14 AWG (green connector), 0.5 to 1.5 mm² / 20 to 16 AWG (blue connectors) (solid sleeves, twisted sleeves and bootlace sleeves)
Length of stripped wire	6-7 mm (green connector), 5-6 mm (blue connectors)
Mounting	On a DIN rail
Housing material	Plastic
Housing color	Yellow
Operating temperature range	From -20°C to 40°C
Working environment humidity	30%-70% RH
Maximum installation altitude	2000 m
Power supply	12-24 VDC
Power consumption	< 1,5 W

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External protection	16 A, characteristic B or C, 6 kA, energy limiting class 3
Max. switching voltage	24 VDC
Max. switching current	16 A
Max. control current	16 A (total), 6 A (per channel)
CCT range	2700-6500K (default, configurable from 1000-10000K)
Voltmeter (DC)	12-24 V ±10%
Voltmeter accuracy	±5% (for 12-24 V DC)
Ammeter (DC)	0-5 A ±10%
Accuracy of the ammeter	±5%
Power and energy meters	Active and apparent power, active and apparent energy, power factor, basic active and reactive energy
Measurement data storage	No
Internal temperature sensor	Yes
Wi-Fi protocol	802.11 b/g/n
Wi-Fi RF band	2401 - 2495 MHz
Max. Wi-Fi signal strength	< 20 dBm
Wi-Fi range	Up to 30 m indoors, up to 50 m outdoors (depending on conditions)
Bluetooth protocol	4.2
Bluetooth RF band	2400 - 2483.5 MHz
Max. Bluetooth signal strength	< 4 dBm
Bluetooth range	Up to 10 m indoors, up to 30 m outdoors (depending on conditions)
Processor (CPU)	ESP32-D0WDQ6
Clock frequency	40 MHz
Flash memory	8 MB
Number of schedules	Up to 20
Webhooks (URL shares)	Up to 20 (up to 5 URLs per webhook)

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Scripting support	Yes
MQTT	Yes
Encryption	Yes
Advanced scheduling	Yes
KVS (Key-Value Store)	Yes

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