ODMR0205 Dimmer + Controller

Summary

Thanks for using ODMR0205 phase cut dimmer. This is a two channels output MOS-FET phase cut dimmer, the max. current of each channel is 5A.

Product Features

- Comply with EU-BUS protocol
- Output 2 channels phase cut signal, Max. current of each channel is 5A
- Support AC 90-220V input, Frequency can be auto adaptive.
- Support Keypad control in Manual Mode
- Support 0-10V signals input, output can be dimmed by 0-10V signals
- Support Master mode
- Support ISP function, the firmware can be updated by RS485 Interface without removing the case
- Support memory function
- Integrated 1.7" OLED LCD and 5 Buttons
- Independent Replacable Out put fuse on both out put channel for additional safety and ease

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>90-220VAC 50/60HZ</td>
</tr>
<tr>
<td>Dimension (mm)</td>
<td>210<em>131</em>58mm,</td>
</tr>
<tr>
<td>Package Size</td>
<td>12 pc per carton</td>
</tr>
<tr>
<td>N.W. for 1 pc of dimmer</td>
<td>1 Kg (2.2 Lb) / pc</td>
</tr>
<tr>
<td>Work Temp.</td>
<td>-20 - 50°C</td>
</tr>
</tbody>
</table>
**Dimension (mm)**

![Diagram showing dimensions]

**Product Function Details**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power Keypad</td>
</tr>
<tr>
<td>2</td>
<td>Edit Keypad</td>
</tr>
<tr>
<td>3</td>
<td>Replaceable fuse</td>
</tr>
<tr>
<td>4</td>
<td>LCD display</td>
</tr>
<tr>
<td>5</td>
<td>2 Channels Phase cut Output</td>
</tr>
<tr>
<td>6</td>
<td>Input of the AC</td>
</tr>
<tr>
<td>7</td>
<td>Input 0-10V Signals</td>
</tr>
<tr>
<td>8</td>
<td>EU-BUS Interface for ISP</td>
</tr>
</tbody>
</table>
Connecting Main Input and Output connections

Please remove the Electrical connector Safety Cover by unscrewing the 4 Screws as shown below:

After connection please proceed to program or operate as per instruction given below.

Programming Method

1. Initial startup

When input power is supplied, previous operating state (under one of Manual, Slave, Master modes) will be loaded. Which means the previous operating state will restore. If the previous state is “Power OFF” by power button, the power LED will blink, and LCD won’t be powered on.

1.1 LCD and Keypad introduction

OLED LCD resolution: 128*64

4 Keypads for LCD, and 1 Keypad for power ON/OFF;

Enter: to select or go to next sub menu;

Back: to unselect or go back to previous menu;

Up: for up operation;
Down: for down operation;

Power: to Power ON/OFF the dimmer;

The top menu is main menu, including System Mode/Scene Edit/System Set.

System Mode: user can select from Manual, Slave and Master Mode.

Scene Edit: user can edit and save programs under master mode.

System Set: to correct system time, LCD Backlight on/off and reset to factory setting

1.2 System Mode

In the main menu, run cursor to system mode and press enter, system mode will be enter. There are 3 modes can be selected: Manual Mode/Slave Mode/Master Mode.

1.2.1 Manual Mode

In Manual Mode, user can control the output by keypads. Just run cursor to CH1 or CH2 by up or down keypad, press Enter, the cursor ↑ changes into ♦. Then the dimming level can be adjusted by UP/Down button within a range from 0% to 100%.

1.2.2 Slave Mode

In Slave Mode, There is a 0-10V DC input for the user choose to operate the dimmer by a controller. The output percent will be displayed on LCD. There is no 0-10V signal detected, the dimmer will shut down the output.

1.2.3 Master Mode
In **Master Mode**, we can select the start date.

![Master Mode](image)

After selected the start date, we can run current program. Please run cursor to the line and press enter keypad. Current program information will be displayed on the screen.

### 1.3 Scene Edit

![Main Menu](image) ![Scene Edit](image)

In **Master Mode**, dimmer will run program automatically. And the programs can be edited in **Scene Edit** menu. First please select which day you want to edit, then divided the day into different periods.

In each period, you can select each channel output level and fade time.

#### 1.3.1 Day Edit

![Scene Edit](image)

Run cursor to **Day Edit** line, press **Enter**, cursor will be changed, and then we can select which day we wanted to edit. For the days we did not edit, the output will stay in 0%.

For example, if we edit Day1 and Day4 only, then the outputs of day 2 and day 3 will be 0%.

#### 1.3.2 Period Edit

In **Period edit**, user can edit program in details.

##### 1.3.2.1 Keep Pre Day Pro

![Dayxxx Period](image) ![Scene Edit](image)

After select day, period can be edit. There is an easy way to copy previous day program setting, just select **keep pre day pro**. The program is same as previous day, without setting again.
### 1.3.2.2 Period x

<table>
<thead>
<tr>
<th>Dayxxx Period</th>
<th>Dayxxx Period3</th>
<th>Dayxxx Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>▶ Period3</td>
<td>▶ Del Period</td>
<td>▶ Period3</td>
</tr>
<tr>
<td>Period4</td>
<td>Begin:15:20</td>
<td>Add New</td>
</tr>
<tr>
<td></td>
<td>End:20:00</td>
<td></td>
</tr>
</tbody>
</table>

Each period can be edit, period can be also delete. For example we want to delete period3. We can enter the period3, and select Del period. Period3 will be delete. Period4 will be renamed for period3 for continuous.

Period begin time can be edit, after select Begin:xx:xx, when Enter keypad first pressed, Hour will be blink, user can use UP/DOWN keypad select hour. If user can adjust minute, after Press Enter keypad for second time.

Period end time can be edit, just as begin time.

CH1 output and CH2 output can be edit separately in one Period.

Fade Time can be set from 0-99 second. When period 1 is finished and period 2 begin, Channel output may be different. Fade time is the how long the new output level will be reached. For example: in new period, CH1 output will be form 10% to 20%, fade time is 10 second. Then CH1 output will be increase 1% each second until output level reach 20%.

Fade time set to long time, the output will be changed slowly. And the brightness of bulbs will be increase slowly, make a soft feel, without brightness changed suddenly.
1.3.2.3 Add New

When user want to add new period, put cursor on the line Add New. After press Enter keypad, new period will be added.

1.3.3 Reset Program

If user want to reset program, please enter Reset Program. All setting will be deleted, user can start a new program.

1.4 System Set

1.4.1 Time Edit

In system set menu, current time can be set. After enter Time Edit, user can edit Current time.

1.4.2 LCD Sleep

LCD can be set go to sleep or not during power on time. If select sleep on, LCD will be off after 2 minute, without any operation. If sleep off, LCD will be always on.

Note: LCD will be off during Power off time, this setting is only available during power on time.
1.4.3 Factory Reset

<table>
<thead>
<tr>
<th>System Set</th>
<th>Factory Reset</th>
<th>Factory Reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Edit</td>
<td>▶ NO</td>
<td>NO</td>
</tr>
<tr>
<td>LCD Sleep</td>
<td>YES</td>
<td>▶ YES</td>
</tr>
</tbody>
</table>

Factory Reset is used to back up original setting. Program will be delete and LCD sleep will be always off.