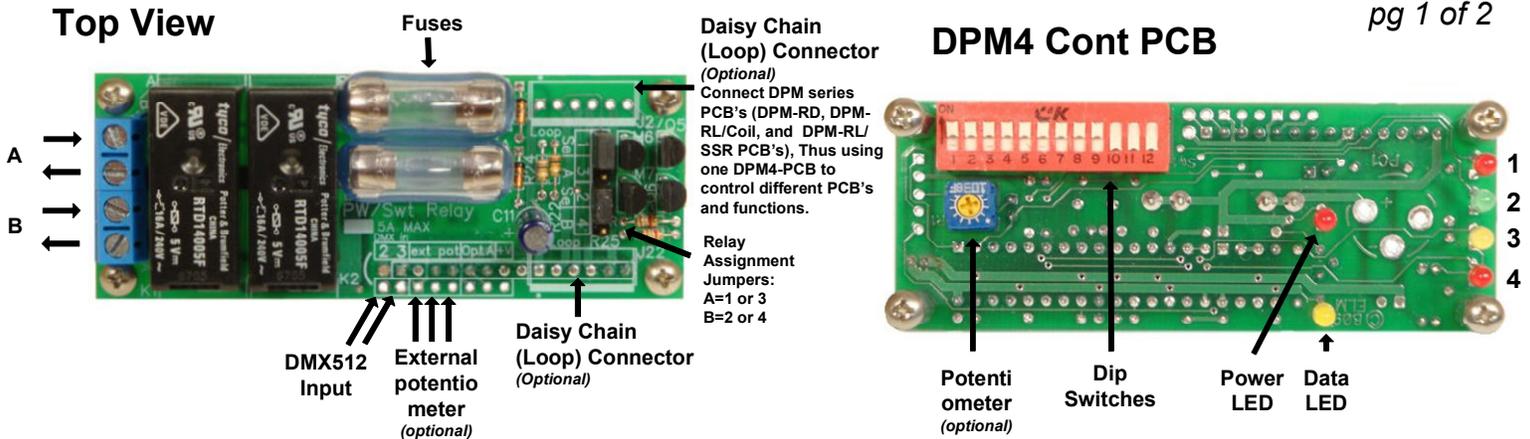


# DPM4-RL Operations Guide



For Mechanical relays insure that the dip switches are set to "SWITCH".

The SWITCH mode has a threshold that will cause the outputs to either be fully on or off. To turn on, from an OFF status, the DMX value must reach 131 or above to turn ON, once ON the value must drop to 125 or below to turn OFF. *In the stand alone switch mode insure the potentiometer is either fully clockwise or fully counterclockwise to prevent intermittent or unwanted changes.*

The PWM (Pulse Width Modulation) mode will vary the 'on' duty time and pulses 120 times per second. Do NOT use this mode with mechanical relays. PWM driving solid state relay has limited uses, for most all uses the 'SWITCH' mode is recommended

Software V 1.06 (Software version 1.05 threshold settings were 0~127 = off / 128~255 = on)

The **Potentiometer** is used to set the output threshold or level of a one of the selected outputs in the stand alone mode (no DMX present). Only one of the 4 outputs can be selected in the stand alone mode. See the instructions below for assigning the output desired.

**ALWAYS TERMINATE the loop out connection-Non Terminated Loop Throughs cause an UNSTABLE signal and the relays may have unstable results.**

[Software Version 1.04]

**Dip Switches** 1~9 sets the DMX512 Channels Assignments (see the DMX512 Channel Assignment Document). Dip Switch 10 sets the output Mode for all 4 outputs - OFF (down position) = PWM, ON (up position) = Switch (threshold). *With either Mode the potentiometer will either vary the PWM or On/Off of the 4 outputs.* DIP Switches 11~12 sets the Stand Alone Output Channel.

**LED Indicators** - LED's to indicate the status of the DPM4. The power LED will illuminate indicating power is applied, the DATA LED On indicates DMX512 data is being received, Off the DPM4 is in Stand Alone Operation, and the four output LED's 1~4 (color variable) indicates the output level of each respectively.



# DPM4-RL Operation



[Software Version DPM-01.06]

The DPM4 can operate with DMX512 control responding to 4 of 512 DMX consecutive channels. If a DMX512 signal is connected (indicated by the yellow data LED) the DPM4 will respond to the channels assigned by the dip switches 1~9. The channel assignment of the dip switches is assigned to output #1 and outputs #2, #3, and #4 are automatically assigned to the following DMX512 channels respectively. *(Assigned channels 509, 510, 511, and 512 are forced to 509, using the last four DMX512 channels.)*

**NOTE - A reset is required for changes to dip switches 1 ~ 10**

If there is not a DMX512 signal input the DPM4 will operate in 'Stand Alone' operation. In Stand Alone, the DPM4 will turn on one of the four outputs (assigned by dip switches 11~12) with a brightness level determined by the potentiometer position.

For example, if the DPM4 is in Stand Alone operation and the desired operation is to have no output, turn the potentiometer full counter clock wise.

Or if the desired operation is to have output #3 at 50%, set dip switches 11 and 12 to output #3 *(for output #1 dip switch 11 and 12 off/down, output #2 – 11 on/up and 12 off/down, output #3 – 11 off/down and 12 on/off, output #4 – 11 on/up and 12 on/up)* and adjust the potentiometer to the 12 o'clock position.

**For Relays insure that the dip switches are set to "SWITCH".** Dip switch 10 is the PWM or Threshold mode setting. If #10 is off/down the DPM4 is in the PWM mode and the brightness is variable / dimmable. If #10 is on/up the output(s) are either fully off or fully on. If in the DMX512 operation the level on the respective channel will activate the output at a threshold - To turn on, from an OFF status, the dmx value must reach 131 or above to turn ON, once ON the value must drop to 125 or below to turn OFF. If in the Stand Alone mode the potentiometer level is the threshold, full counter clock wise is off, full clock wise is on. *To prevent intermittent or unwanted changes insure the potentiometer is either fully clockwise or fully counterclockwise.*

