

Programming Instructions v 3.2 PWM Controller Software



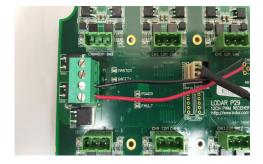
Programming Instructions v 3.2 for PWM Controller Software

Download / Install & Run

- . Driver (Must be installed for software to work)
- . Software
- . Instructions

www.lodar.com/configuration

• Connect Power to +/- terminal plug

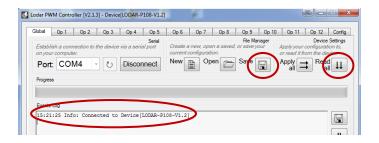


- Insert USB plug to PC USB port
- Attach USB programming cable
 Driver should install automatically

- Click Refresh icon
- Select Com Port corresponding to the installed cable
- Click Connect



- Check Program connection to P108 Receiver
- Before changing any configuration
 Click Read All, then Click Save



×



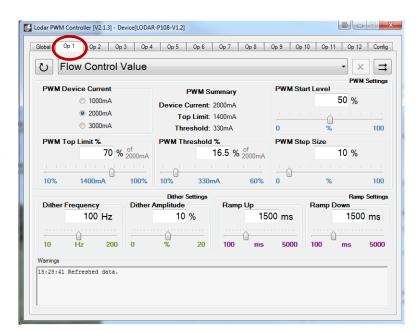
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Example settings for OP1 = CH1 on the PCB

• Click an Output (OP) tab

This corresponds to **Channel (CH)** number on PCB

OP1 = CH1 OP2 = CH2 OP3 = CH3 etc.

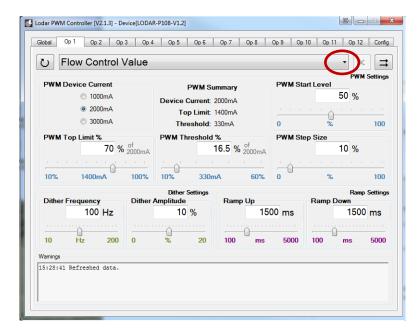


Select Valve

Flow Control Valve (Page 3)

or

Directional Control Valve (Page 4)



Directional Control Valve (Momentary)

Will **ONLY** operate while holding down a button, within the values set.

Flow Control Valve (Latching)

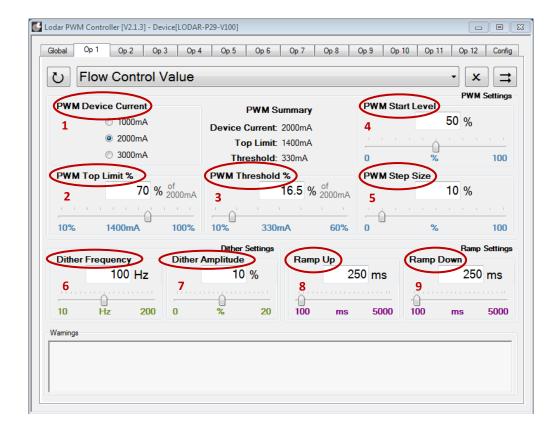
Continuously operational within the values set.



Flow Control Valve

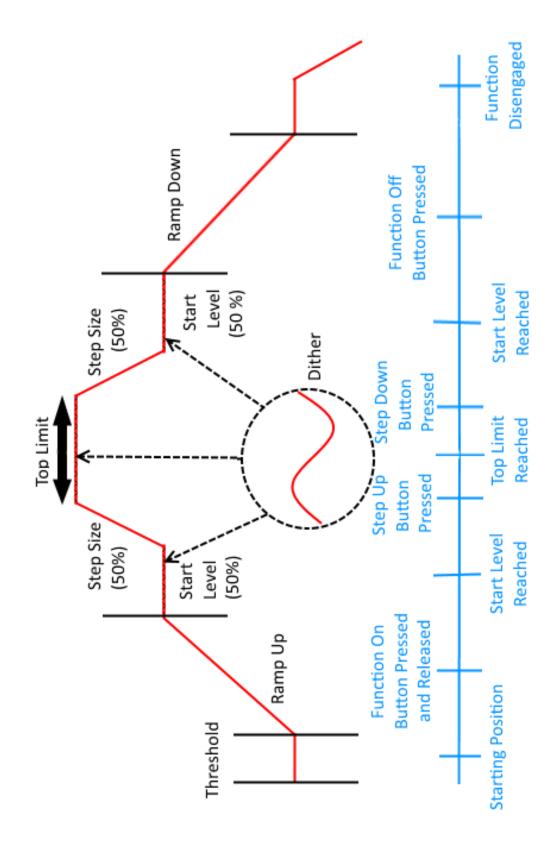
- 1 Select Device Current Normally set at 2000mA
- 2 Select Top Limit % Maximum amount the valve will need.
 A value of 1400mA (70% of 2000mA) is shown below for the maximum amount of flow for the selected valve.
- Select Threshold % Minimum amount of current the valve will need to start flowing.
 A value of 330mA (16.5% of 2000mA) is shown below for the minimum amount of flow for the selected valve.
- 4 Select Start Level (Flow Control ONLY) Level the valve starts at when button is toggled ON E.g. 50% valve will set the valve at 50% of the Threshold % and Top Limit % values.
- Select Step Size (Flow Control ONLY) Percentage level valve steps when the + and buttons are pressed.
 A 10% valve will give 10 steps between the values of Threshold % and Top Limit %
- 6 Select Dither Frequency Speed the valve will Dither / Wobble, preventing sticking. Normally set at 100Hz.
- 7 Select Dither Amplitude Level of Dither / Wobble, preventing sticking. Normally set at 10%.
- **8 Select Ramp Up Time** Amount of time for valve to open from Threshold to the Top limit % (set above). In the example above, this will take 1500ms (1.5 Seconds). This is useful as a "soft start" function.
- 9 Select Ramp Down Time Amount of time for valve to close to the Threshold limit value (set above).

 In the example above, this will take 1500ms (1.5 Seconds). This is useful as a "soft stop" function.





Flow Control Valve Diagram



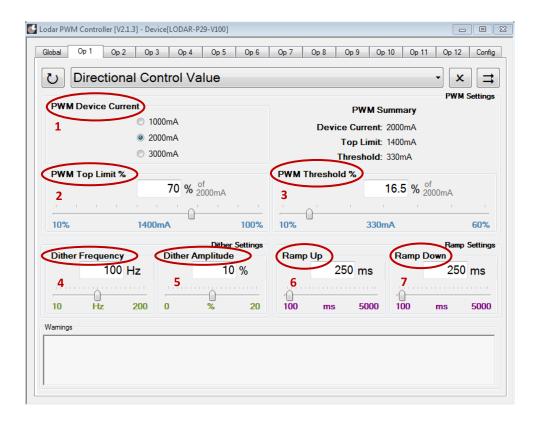


Directional Control Valve

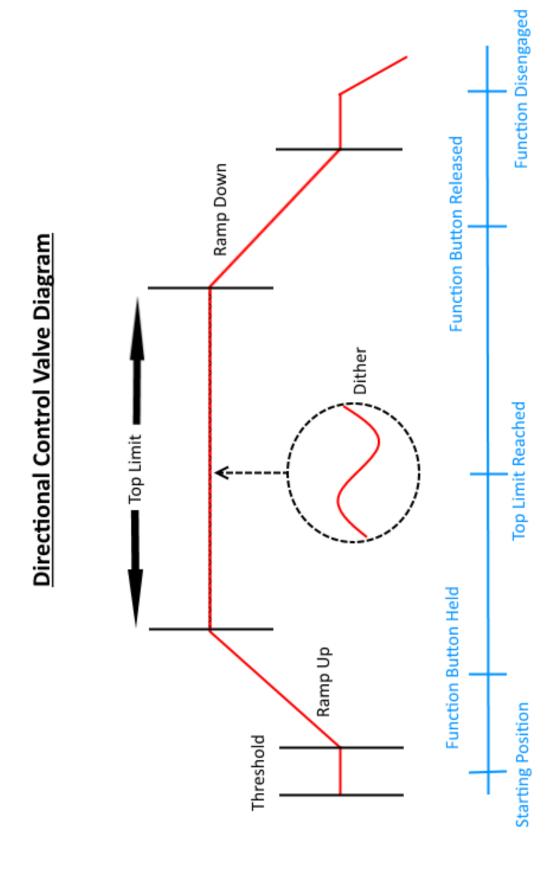
- 1 Select Device Current Normally set at 2000mA
- 2 Select Top Limit % Maximum amount the valve will need.

A value of 1400mA (70% of 2000mA) is shown below for the maximum amount of flow for the selected valve.

- Select Threshold % Minimum amount of current the valve will need to start flowing.
 A value of 330mA (16.5% of 2000mA) is shown below for the minimum amount of flow for the selected valve.
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 In the example above, this will take 1500ms (1.5 Seconds). This is useful as a "soft stop" function.

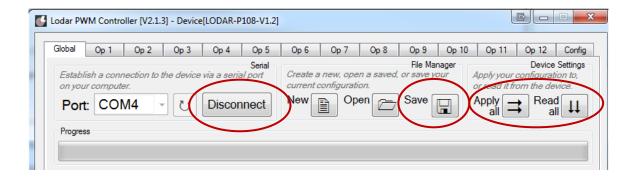








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To copy changed unit settings

- Click Save when all outputs are configured and select a name for your profile.
- Click Apply All to update the unit with your new configuration.
- **Click Disconnect** when you have finished updating the configuration of the receiver and remove the cable from the PCB.
- Your PWM controller is now configured.

Technical & Programming Queries

Please contact:

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PLEASE READ CAREFULLY BEFORE USING THE PWM CONTROLLER SOFTWARE

Values shown in examples are standard Lodar ltd factory settings.

This unit comes supplied with default settings set by Lodar Itd which may or may not be suitable for use on your equipment. It is the responsibility of the user/operator to check the suitability of any pre-set or altered values for any use on their equipment. Failure to ensure this may result in damage to equipment or injury to personnel.