

# Proportional Joystick Driver Board Specification

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**SURE GRIP**  
CONTROLS INC.

Order code: D2

Our Proportional Joystick Driver Board provides your electro-hydraulic application with a simple, precise control solution. The JDBV2 provides a 2 axis PWM proportional configuration that can be utilized in either our "JSM" or "JSL" joysticks. All of the operating parameters of the joystick are configurable through the onboard USB connection. This provides a convenient method of interfacing the control with a laptop or desktop without the need of any custom tools.



'L' Handle  
shown for  
reference  
only  
(L2-M8 shown)

D2 Option  
Available for  
JSM or JSL  
Joystick  
(JSM shown)

A - Handle wiring  
B - Joystick wiring and USB  
Setup and Configuration port

## Adjustable operational parameters:

Parameter	Range/Adjustment	Factory Settings		
		Min	Max	Unit
PWM Duty Cycle	5% to 99%	20	80	%
PWM Frequency	33 to 400Hz.	Setting		Unit
		200	Hz	
Ramp Rate	0.1 to 999 secs.	Setting		Unit
		0.2	Seconds	
Current monitoring	300 to 2500mA (Closed loop)	Open Loop (No current monitoring)		
Aux off delay	0 to 999 secs.	Setting		Unit
		0	Seconds	
Operating Dead Band	5 to 50% (Of travel)	Setting		Unit
		10	%	

## Electrical/Environmental parameters:

Parameter	Factory Settings		
	Min	Max	Unit
Input voltage	10	32	Vdc
	Setting		Unit
Input Current Idle	50	mA	
Input Current Operational	Setting		Unit
	10	Amps	
Max Current per PWM Output	Setting		Unit
	2.5	Amps	
Operating Temperature	Range		Unit
	-40 to +80	C deg.	