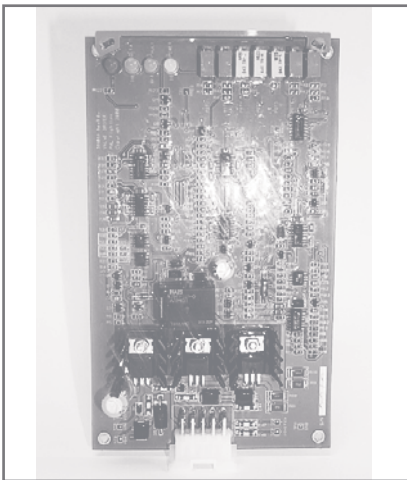




## PWM Valve Driver Board



*Compact, highly responsive driver boards for long life operation of PML valve driver joysticks. Smooth centering, EMC protection and a host of safety features built-in.*

### TYPICAL APPLICATIONS

PWM Valve Driver Boards and complementary joysticks are suitable for rugged control in applications such as:

- Heavy plant machinery
- Cranes
- Off road vehicles
- Land moving machines
- Excavators
- Lift platforms

PML Pulse Width Modulated Boards are precision engineered for use with PML valve driver joysticks. In particular, they are compatible with many applications for direct drive of proportional operated actuators. This, together with various safety features, allows PML to offer complete system integrity from joystick right through to actuator controller.

Originally developed to meet the stringent safety criteria of the crane industry, this product appeals to today's broader markets, whilst retaining the necessary safety features for strict industry use.

The low profile, low mass characteristics of the surface mount components have been utilised to make the board less sensitive to mechanically harsh environments. Full cycle current sensing and extended current sensing widen the scope of fault detection, and visual indication of conditions is possible using the additional LED. Over voltage shutdown minimises power dissipation and low-end voltage operation has also been improved.

### FEATURES

- Simple Installation
- Factory preset
- Increased productivity on assembly
- Matched technology - controller to joystick
- Commonality of parts

### BENEFITS

- Compact design
- Long life
- Built-in safety features
- EMC protected
- Highly responsive
- Smooth centering
- Low profile
- Simple installation

For further information ►



# PWM Valve Driver Board

## SPECIFICATIONS

## PERFORMANCE CHARACTERISTICS AND DATA

<b>ELECTRONIC SPECIFICATION</b>	
<i>Operating Temperature</i>	-40°C to +85°C
<i>Input Voltage Range (Vin)</i>	-24V to 130V
<i>Operating Voltage Range</i>	9V to 16V @12V 21V to 32.0V@24V
<i>Max Reverse Voltage</i>	800V
<i>Current Consumption</i>	30mA
<i>Threshold Current Range</i>	Adjustable 0 to 1.5A
<i>Threshold Position</i>	Set On Test 0-100% Deflection
<i>Maximum Current Range</i>	Adjustable 0 to 1.5A
<i>Maximum Position</i>	Set On Test 0-100% Deflection
<i>Float Position</i>	Yes
<i>Modulation Frequency</i>	Set On Test 100Hz +/-5Hz
<i>Output Characteristic</i>	Linear
<i>Ramp Time</i>	Set On Test 0-2secs
<i>Fault Detection</i>	Over Voltage Overrange Over Current (Short Circuit) Joystick Out of Centre at Start Joystick Dual Decode Joystick Disconnected Over-ride
<i>Fail-Safe</i>	Non-Sacrificial
<i>Environmental Requirements</i>	SAE J1455
<i>EMC Requirements</i>	95/54 EC Emissions and Immunity ISO 10605 Electrostatic Discharge ISO 7637 Transients
<i>Technology</i>	Through Hole Surface Mount