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High Temperature CAN Controlled Valve Driver with Position Feedback (SAE J1939)

Axiomatic Technologies Corporation and the G.W. Lisk Company have collaborated to release a new controller with high temperature capability for under hood installation in the transportation industry. The main application is control of closed loop engine actuators.



AXIOMATIC P/N: GWL171100

G.W. LISK P/N: VY2-2837

The CAN Controlled Valve Driver with Position Feedback, or the Positional Valve Driver (PVD) is a rugged high performance, closed loop valve driver intended for use directly under the hood in a wide range of mobile applications. It is, out of box, capable of driving a hydraulic positional actuator accurately to achieve any hydraulic positioning goals.

The PVD has one configurable universal input (0-1V, 0-2.5V, 0-5V, 0-10V, 0-20mA, 4-20mA, PWM, Frequency or Digital), and one proportional current output (0-4A) for driving a control valve or a hydraulic actuator. The PVD supports CAN J1939 protocols and is fully CAN controlled. In other words, all control commands are to be taken from a connected J1939 network. Where required, the controller can also send operational status and/or positional information back to the network.

PID and control algorithm functionality was added to the module using the Simulink® software environment by The Mathworks, Company.

For rugged machine applications, it features an aluminum enclosure, gasket and a 12 pin Deutsch IPD DTM15-12PA connector. It carries an IP67 rating.

The unit is configurable using the Axiomatic Electronic Assistant® service tool.

As an option, a Simulink® block library is available. **Simulink®** is a model-based design tool from Mathworks® and allows the machine developer to model the control in their system during the design phase.

G. W. Lisk has been providing solenoid valves, LVDT's and flame arrestors to the transportation, commercial, aerospace and other industries since 1952. Axiomatic is a mobile electronic control design engineering company and we are pleased to work with G. W. Lisk to develop this new electronic controller suited for the transportation industry.

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