



PRESS RELEASE

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High Temperature SAE J1939 Controller Platforms with Simulink®

Axiomatic has designed a new series of controllers with high temperature capability for on engine or under hood installation and intended to be Simulink® compatible for OEM machine developers. Applications could include control of closed loop engine actuators or viscous fans.



The **Fan Drive Controller Platform**, p/n **AX022600S**, accepts 2 discrete inputs, 1 Hall Effect sensor (or digital/PWM signal) input, and provides a 4A output (0-200 Hz, 50% D.C.) to drive a solenoid. The unit has a 100mA +5V reference and operates with 12 or 24VDC power. The CAN bus communication port, SAE J1939, interfaces with the engine ECM. It operates over -40 to 125°C (-40 to 257°F).

The **CAN Controlled PWM Valve Driver with Feedback, SAE J1939**, p/n **AX022810** is designed to control an actuator. It accepts 1 universal signal input, 1 Frequency Sensor input and provides a 4A digital or PWM output to drive an actuator. Power is 12V or 24VDC nominal and the controller is networked to a CAN bus (SAE J1939). It operates over -40 to 105°C (-40 to 221°F).

For machine applications, both designs features an aluminum enclosure, encapsulation, gasket and a 12 pin Deutsch IPD p/n DTM15-12PA connector. They carry an IP67 rating and environmental ratings suitable for off-highway vehicles and trucks.

Axiomatic works with Simulink® as the software development platform for prototyping in OEM machine control applications. **Simulink®** is a model-based design tool for from Mathworks®. It provides an interactive graphical environment and a customizable block library that lets Axiomatic design and implement application-specific control algorithms via embedded coding tools. Using Simulink®, the OEM machine designer can simulate their control system with the Axiomatic module included. This permits fine tuning of the design parameters and testing of functionality prior to machine prototype installation.

Axiomatic provides electronic machine controls, components and systems to the off-highway, military, power generation, material handling, electric vehicle, industrial and alternate energy OEM markets. We provide efficient, innovative solutions that focus on adding value for our customers. We emphasize service and partnership with our customers, suppliers, and employees to build long term relationships and mutual trust.

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