



PRESS RELEASE

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Axiomatic releases a rugged 8 Input, 5 Output Valve Controller with CE marking and CAN (SAE J1939) Auto-Baud-Rate Detection.

The AX021910, 8 Input, 5 Output Valve Controller, is designed for versatile control of up to five outputs to directly drive coils or other loads. It has rugged IP67 packaging and performs in high vibration and off-highway machine environments. It operates from -30 to 85°C (-22 to 185°F) and carries CE marking.

Its flexible circuit design gives the user a wide range of configurable input or output types. The powerful microcontroller and control algorithms allow the user to program the controller for a wide range of applications without the need for custom software.

The controller has seven fully programmable universal inputs that can be set up to read voltage, current, resistive, frequency, or digital input signals. For added flexibility, it also has a magnetic sensor circuit that can read AC signals and convert them into a frequency (RPM) pickup.

There are five universal outputs that can be setup to drive proportional current (up to 2.5 A each), hotshot digital current, proportional voltage (up to supply), proportional PWM, or on/off digital loads.

The AX021910 valve controller is highly programmable and allows the user to configure it for their application. Its control algorithms allow for open or closed loop drive of the proportional outputs. It can be operated as either a self-contained control system, driving the outputs directly from the on-board inputs, and/or it can be integrated into a CAN J1939 network of controllers. All I/O and logical function blocks on the unit are inherently independent from one another but can be programmed to interact in several ways. All setpoints are user configurable over the CAN port using the Axiomatic Electronic Assistant.

A number of built-in protection features shut off the outputs in adverse conditions. These include hardware shutoffs to protect the circuits from being damaged as well as software shutdown features that can be enabled in safety critical systems.

It supports baud rates of 250 kbps, 500 kbps, 667 kbps, and 1Mbps and features auto-baud-rate detection for SAE J1939 networks.



For more details, please visit:

<https://products.axiomatic.com/item/valve-controls/8-input-5-output-valve-controllers/ax021910>

The AX021910 is the latest addition to our line-up of valve controller which includes:

- AX020420, 12 Input, 12 Output Valve Controller, SAE J1939
- AX020530, 7 Inputs, 5 Outputs Valve Controller, +5V, SAE J1939
- AX024001, 4 Inputs, 2 Bidirectional 0-400 mA Outputs Valve Controller, CANopen®

This product line can be viewed here:

<https://products.axiomatic.com/category/valve-controls>

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