

PRESS RELEASE

May 20 , 2025 – Mississauga, ON, Canada

Axiomatic releases a compact and rugged Bidirectional 200 mA Dual Servo Valve Controller (SAE J1939) with a Powerful Microcontroller.

The Bidirectional 200 mA Dual Servo Valve Controller provides two outputs selectable as servo valve control or proportional current type. The outputs can also be configured as 1 full H-bridge output. The selectable current ranges are ± 50 mA, ± 100 mA, and ± 200 mA.

The device features a new microcontroller with more memory which allows the users to program it for a wide range of applications. The controller has one CAN port (SAE J1939) with auto-baud-rate detection. It can be configured using the Axiomatic Electronic Assistant without the need for custom firmware. Setpoint configuration can be saved in a file which can then be utilized to program the same configuration to another AX024040 device.



This servo valve controller can operate with battery power supply of 8 V to 36 V and is protected against reverse polarity, surge and transient, overvoltage, and undervoltage faults. The outputs have overcurrent and short circuit protection. It can work at temperatures from -40 to 85 °C (-40 to 185 °F). The sealed enclosure is rated IP67 against dust and water exposure.

A mating plug KIT is available under Axiomatic P/N: AX070112 which includes 1x socket (DT06-08SA), 1x wedgelock, 8x contacts, and 6x sealing plugs.

These rugged qualities and functional flexibility of AX024040 opens the possibility of using it in a variety of applications as follows.

- Mobile equipment in high vibration and harsh environments
- Off-highway machine automation
- Can control a Danfoss (Sauer) Series 90 axial piston pump

For more details, please visit: <https://www.axiomatic.com/product/dual-servo-valve-controller-200-ma-2-outputs-sae-j1939-ax024040/>



The AX024040 is the newest addition to Axiomatic's wide range of valve controllers. A few of these are listed below.

- AX024000, Dual Servo Valve Controller, +/-400mA, 4 Inputs, 4 Outputs, +5V & +10V Ref., SAE J1939, 250 kbps
- AX024010, 4 Inputs, 2 Bidirectional 0-400 mA Outputs Servo Valve Controller, SAE J1939, DIN Rail Mount, NFC
- AX024030, 4 Inputs, 2 Bidirectional 150-600 mA Outputs Valve Controller, +5V Ref., SAE J1939, DIN Rail Mount (Releasing soon!)

We also offer the same products with CANopen®.

Efficient valve drivers are responsible for the regulation of solenoids and hydraulic valves, including servo and proportional valves. These drivers are operated via joysticks, switches, or sensors and are run with battery power. Our valve drivers can connect using protocols such as CANopen®, SAE J1939, and RS-232, among others. We offer a range of electronic controllers for mobile equipment with electro-hydraulics that feature both single and multiple inputs and outputs, designed to withstand demanding conditions.

You can browse through our complete catalog of valve controllers at:

<https://www.axiomatic.com/product-category/automation/hydraulic-valve-drivers-controllers/>

Axiomatic specializes in the design, development, and production of control solutions tailored for diverse applications where performance and reliability are of utmost importance. Our team of design engineers creates products and components in both Canada and Finland, while our manufacturing operations are located in Canada.

Contact: M Ejaz, Product Manager

TEL: +1 905 602 9270 x221

m.ejaz@axiomatic.com