PRESS RELEASE

October 9, 2025 – Mississauga, ON, Canada

Axiomatic Releases a Rugged 12 Signal Outputs CAN Controller (SAE J1939) with Isolation, Suitable for use in Mobile Equipment with On-Board Battery Power

The 12 Signal Outputs Controller supports 12 analog or digital type outputs programmable as voltage, current, frequency, PWM, or digital. AX030590 is designed to interface with a machine's SAE J1939 CAN network and features auto-baud-rate detection.

The AX030590 controller offers a wide-ranging power supply input selection of 12, 24, or 48 VDC nominal (9 to 60 VDC). The CAN controller is designed with 3-way isolation between power, CAN, and outputs. All AX030590 logical function blocks are inherently independent from one another but can be configured to interact with each other. All parameters are user configurable using the Axiomatic Electronic Assistant, P/N: AX070502 or P/N: AX070506K.

AX030590 — 12 Signal Outputs Controller, SAE J1939

The AX030590 units feature a rugged and sealed TE Deutsch enclosure, IP67 rated against dust and water exposure. The wide-ranging operating voltage and rugged IP67 rated enclosure ensure that the AX030590 module is suitable for the harsh environment of mobile equipment applications including construction equipment, heavy-duty industrial machine control, and power generator sets.

For more details, please visit the AX030590 webpage on Axiomatic Technologies' website.

The 12 Signal Outputs Controller, AX030590, is the newest addition to the Axiomatic Signal Output Controllers with CAN line-up.

- 1 Analog Signal Output Controllers, AX030520 & AX030521
- 4 Analog Signal Outputs Controllers, AX030500, AX030501, AX030502, & AX030503
- 4 Universal Signal Outputs Controllers, AX030540, AX030541, AX030560, & AX030561
- CAN to 1 Signal Output AX130760 & AX130761
- CAN to 2 Analog/Digital and 1 Relay Output Converters, AX130750, AX130751, AX130770, AX130770-01, AX130770-02, & AX130771
- CAN to PWM Signal Controllers, AX130700AB & AX130701
- CAN to Sine or Square Wave and PWM Outputs Controller, AX030550

Axiomatic is planning to release a CANopen® version of the 12 Signal Outputs Controller, AX030591, shortly.

You can browse through our catalog of Signal Output Controllers with CAN and other I/O Controls and Signal Converters.

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 designs products and components in both Canada and Finland, while our manufacturing operations are located in Canada. A US location is underway.

Contact: Alyssa Menard | Marketing Communications Specialist
alyssa.menard@axiomatic.com