

PRESS RELEASE

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Distributed I/O – 18 Digital Input to CAN (SAE J1939 or CANopen) with Electronic Assistant™ EA

Axiomatic Technologies announces the release of a new Distributed I/O with 18 digital inputs and a CAN (SAE J1939 or CANopen) output. Axiomatic's part number AX030300 provides efficient and safe engine operation with the robust circuits and rugged packaging for use in harsh environments.



Axiomatic P/N: AX030300

Features:

- 8 digital inputs are user selectable from the following:
 - Active High/Active Low
 - Disable input
 - PWM signal from sensors or diesel engine ECM's
 - Pulse (Hz or RPM)
 - Counter
- 10 digital inputs are user selectable as Active High/Active Low
- 12V or 24VDC input power (nominal) with rugged surge protection
- 1 CAN (SAE J1939)
- CANopen module available on request (P/N: AX030301)
- Rugged IP67 packaging and connectors, suitable for harsh environments
- **Electronic Assistant™ EA** runs on a Windows operating system for user configuration, saving and writing settings to additional controllers during set-up. An Axiomatic USB-CAN converter links the PC to the CAN bus.

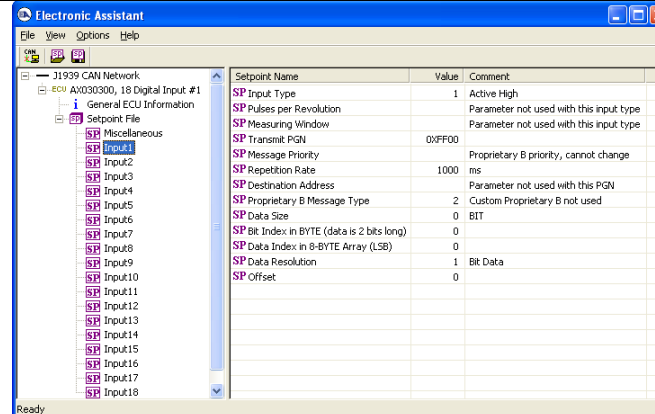
Applications:

- Engine controls for power generation, co-generation, stationary power
- Engine controls for commercial vehicles, off-highway equipment, etc.

Electronic Assistant™ EA

The Electronic Assistant (EA) runs on any modern PC with the Microsoft Windows® 2000 operating system or higher. It comes with a royalty-free license for use.

With connection to the bus, the EA finds all the devices on the bus, and recognizes the Axiomatic controls. The user can quickly configure an Axiomatic control for its desired performance over a wide variety of applications. An Axiomatic **CAN Assistant – Scope and Visual** is also offered to monitor CAN messages in a text format. The CAN tools are useful PC-based diagnostic and debugging tools for J1939 or CANopen networked devices.



Setpoint Name	Value	Comment
SP Input Type	1	Active High
SP Pulses per Revolution		Parameter not used with this input type
SP Measuring Window		Parameter not used with this input type
SP Transmit PGN	0xFF00	
SP Message Priority		Proprietary B priority, cannot change
SP Repetition Rate	1000	ms
SP Destination Address		Parameter not used with this PGN
SP Proprietary B Message Type	2	Custom Proprietary B not used
SP Data Size	0	BIT
SP Bit Index in BYTE (data is 2 bits long)	0	
SP Data Index in 8-BYTE Array (LSB)	0	
SP Data Resolution	1	Bit Data
SP Offset	0	

Figure 1.0 Windows-based configuration screen from the Electronic Assistant

Axiomatic operates in Mississauga (Toronto), Canada as well as Munich, Germany, Tulsa, Oklahoma and Lempäälä, Finland. As an integrated ISO9001:2000 engineering design and manufacturing firm, our mission is to provide efficient, innovative, electronic machine controls, power components and systems for mobile, marine, mining, military, utility and industrial equipment OEM's. Our rugged components are backed with a guarantee of excellent customer service.

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