

## CAN Valve Controller


CAN (SAE J1939)

with Electronic Assistant® 

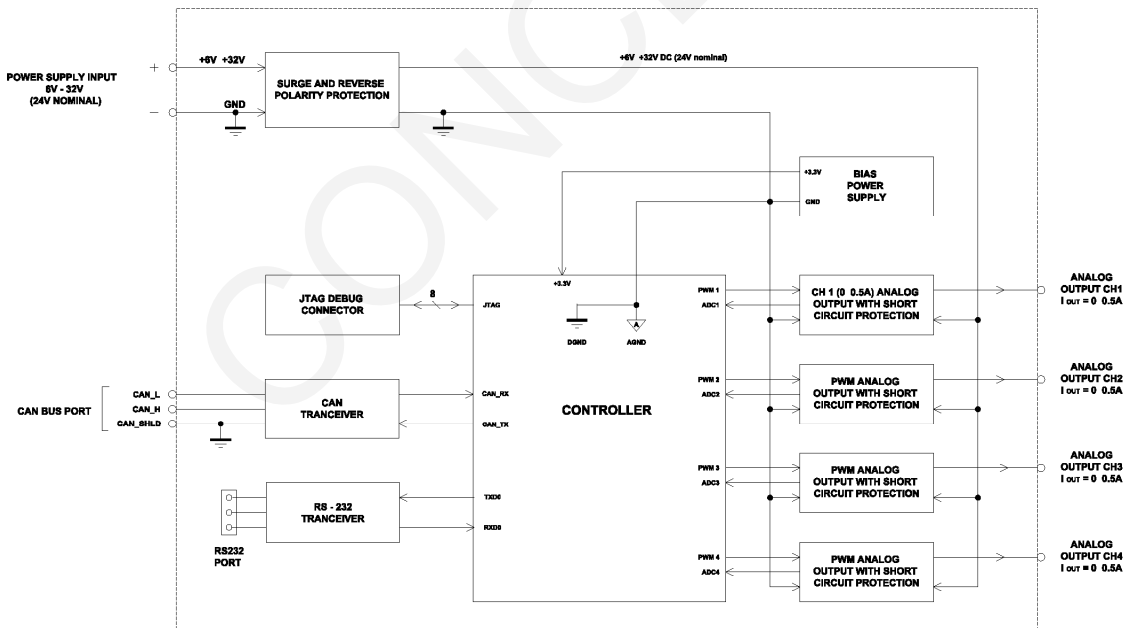
P/N: AX022100

*Distributed Valve Driver  
 Application Platform*

### Features:

- 4 analog current outputs (500 mA) to drive hydraulic or pneumatic valves
- 12V or 24V nominal input power (9...32VDC)
- Application-specific embedded software
- 1 CAN (SAE J1939) port
- CANopen® module available on request
- Rugged packaging and connectors
- **Electronic Assistant®**  runs on a *Windows* operating system for user configuration and programming. An Axiomatic USB-CAN converter links the PC to the CAN bus.

### BLOCK Diagram



### Applications:

- Distributed controls for industrial automation
- Distributed controls for commercial vehicles, off-highway equipment, industrial equipment, etc.

## Ordering Part Numbers:

SAE J1939 version	
Controller: <b>AX022100</b>	
<b>Accessories:</b> <b>PL-DTM06-12SA</b> Mating Plug Kit (The KIT is comprised of: DTM06-12S, 1 WM12S and 12 contacts. The Axiomatic stock # is FG-IOCTRL-20.)	
<b>AX070502 Configuration KIT</b> includes the following. USB-CAN Converter P/N: AX070501 1 ft. (0.3 m) USB Cable P/N: CBL-USB-AB-MM-1.5 12 in. (30 cm)CAN Cable with female DB-9 P/N: CAB-AX070501 AX070502IN CD P/N: CD-AX070502, includes: <b>Electronic Assistant®</b> software; EA & USB-CAN User Manual UMAX07050X; USB-CAN drivers & documentation; CAN Assistant (Scope and Visual) software & documentation; and the SDK Software Development Kit. <b>NOTE: To order this kit, you need only to specify P/N: AX070502.</b>	

## Technical Specifications:

### Inputs

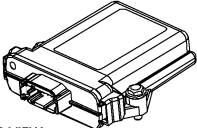
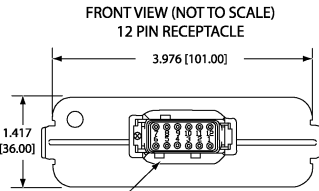
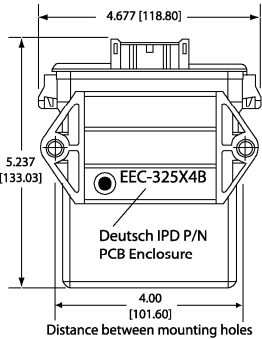
Power Supply Input - Nominal	12, 24VDC nominal (9...32 VDC power supply range)
Protection	Reverse polarity protection is provided. Overvoltage protection is provided.
CAN	SAE J1939

### Outputs

CAN	SAE J1939 CANopen® on request
Output	4 independent analog outputs up to 500 mA
Accuracy	+/- 5%

## General Specifications

Microprocessor	32-bit, 65KBytes memory
Control Logic	Application-specific
Communications	1 CAN port (SAE J1939)
User Interface	<p>The controller setpoints can be viewed and programmed using the standard J1939 memory access protocol through the CAN port and the PC-based Axiomatic Electronic Assistant®.</p> <p>The Electronic Assistant® for <i>Windows</i> operating systems comes with a royalty-free license for use on multiple computers.</p> <p>It requires an USB-CAN converter to link the device's CAN port to a <i>Windows</i>-based PC. An Axiomatic USB-CAN Converter AX070501 is available as part of the Axiomatic Configuration KIT.</p> <p><b>P/N: AX070502</b>, the Axiomatic Configuration KIT includes the following. USB-CAN Converter P/N: AX070501 1 ft. (0.3 m) USB Cable P/N: CBL-USB-AB-MM-1.5 12 in. (30 cm)CAN Cable with female DB-9 P/N: CAB-AX070501 AX070502IN CD P/N: CD-AX070502, includes: Electronic Assistant® software; EA &amp; USB-CAN User Manual UMAX07050X; USB-CAN drivers &amp; documentation; CAN Assistant (Scope and Visual) software &amp; documentation; and the SDK Software Development Kit.</p>
Operating Conditions	-40 to 85 °C (-40 to 185 °F)
Electrical Connections	Contact Axiomatic.
Packaging	<p>For application-specific packaging contact Axiomatic.</p> <p>High Temperature Nylon housing with 12-pin receptacle Deutsch IPD PCB Enclosure (P/N: EEC-325X4B) 4.62 x 5.24 x 1.43 inches 117.42 x 133.09 x 36.36 mm (WxLxH excluding mating plug)</p>

	<p style="text-align: right;"><b>HOUSING DIMENSIONS</b></p> <p>Housing Material: High Temperature Nylon (Black) Protection Rating: IP67</p> <p style="text-align: center;"><b>3D VIEW</b> 12 Pin Receptacle</p>  <p style="text-align: center;"><b>FRONT VIEW (NOT TO SCALE)</b> 12 PIN RECEPTACLE</p>  <p style="text-align: center;"><b>BOTTOM VIEW</b></p>  <p>Height 1.368 [34.75] at 12 pin receptacle</p> <p>Mounting Holes <math>\varnothing</math> 0.29 [7.40] through 2 pl for 0.25 [6.00] fastener</p> <p>Mounting flange: 16 mm [0.63 in] thick</p> <p>Deutscher IPD P/N PCB Enclosure EEC-325X4B</p> <p>Distance between mounting holes 4.00 [101.60]</p> <p>Key Arrangement A</p> <p>Mating Plug Assemblies: 12 pin receptacle - DTM06-12SA with wedgelock WM12S and contacts 24 pin receptacle - DTM06-12SA and DTM06-12SB with wedgelocks WM12S and contacts Contact factory for contact specification.</p> <p style="text-align: right;">Dimensions: inches [mm] excluding mating plug(s)</p> <p>Or Stainless Steel Enclosure with Encapsulation on request 12-pin Deutsch IPD receptacle Dimensions: Contact Axiomatic</p>
Weight	Contact Axiomatic.

Note: CANopen® is a registered community trade mark of CAN in Automation e.V.

Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on [www.axiomatic.com/service.html](http://www.axiomatic.com/service.html).

Specifications are subject to update without notice.  
Form: TDAX022100-11/10/09