

# SMART VALVE CONTROLLERS

- Expanded, accurate and smooth electronic control for hydraulic valves
- Flexible configuration to suit the application
- Manifold or remote mountable
- CAN system integration
- Rugged IP67 performance



MODEL NO.	AX020500	AX02050X	AX02120X	AX021300
CAN/RS-232	1 RS-232	1 SAE J1939 (AX020503) 1 CANopen (AX020502)	1 SAE J1939 (AX021200) 1 CANopen (AX021201) 1 RS-232	1 SAE J1939 1 RS-232
POWER INPUT	8...36VDC	8...36VDC	8...80VDC	9...36VDC
INPUTS				
0-5V	4	4		2
0-10V	Selectable: 4	Selectable: 4		
0-20mA	Selectable: 4	Selectable: 4		Selectable: 2
4-20mA	Selectable: 4	Selectable: 4		Selectable: 2
Digital	Selectable: 6	Selectable: 6		Selectable: 5
PWM D.C. Signal	2	2		3
Frequency/RPM	Selectable: 2	Selectable: 2		Selectable: 3
16-bit Counter	Selectable: 2	Selectable: 2		Selectable: 3
+5V Reference	1	2		
OUTPUTS				
Proportional Valve	4 (2A)	4 (2A)	9 (2A)	
Digital (On/Off Valve)	1 (2A) Selectable: 4 (2A)	1 (2A) Selectable: 4 (2A)	Selectable: 9 (2A)	6 (5A)
PWM D.C. Signal			Selectable: 9 (0-100%, 150Hz-5KHz)	Selectable: 6 (0-100%, 1-200Hz)
PACKAGING	IP67 Remote mount plastic enclosure 24-pin Deutsch IPD connector			
DIMENSIONS	4.62 x 5.24 x 1.43 inches 117.42 x 133.09 x 36.36 mm (W x L x H excluding mating connectors)			
CONFIGURATION	GUI Serial Tool AX020501	AX070502 Electronic Assistant® (EA) Kit		

Selectable: These are user selectable parameters in the PC-based configuration tool Electronic Assistant® (EA).

Contact Axiomatic with application-specific requirements.

Specifications subject to change without notice.



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# SMART VALVE CONTROLLERS

continued



## Applications:

- Efficient hydraulic control sub-systems or complete vehicle control
- Reduce noise and emissions with optimized fan drive controls for construction equipment

MODEL NO.	AX020100	AX02160X	AX021800	AX021900	AX022000
CAN/RS-232	1 RS-232	1 SAE J1939 (AX021600) 1 CANopen (AX021602)	1 SAE J1939	1 SAE J1939	1 SAE J1939
POWER INPUT	9...32VDC	6...60VDC	8...60VDC	8...60VDC	6...60VDC
INPUTS					
Universal		1	4	6	1
0-5V		Selectable: 1	Selectable: 4	Selectable: 6	Selectable: 1
0-2.5V		Selectable: 1	Selectable: 4	Selectable: 6	Selectable: 1
0-10V		Selectable: 1	Selectable: 4	Selectable: 6	Selectable: 1
0-20mA		Selectable: 1	Selectable: 4	Selectable: 6	Selectable: 1
4-20mA		Selectable: 1	Selectable: 4	Selectable: 6	Selectable: 1
Resistive		Selectable: 1	Selectable: 4	Selectable: 6	Selectable: 1
Digital		Selectable: 1	Selectable: 4	1 Enable Selectable: 6	Selectable: 1
PWM D.C. Signal	1	Selectable: 1	Selectable: 2	Selectable: 6	Selectable: 1
Frequency/RPM		Selectable: 1	Selectable: 2	1 Magnetic Pick Up Sensor Selectable: 6	Selectable: 1
+5V Reference	1		4 (100mA ea)		1
OUTPUTS					
Proportional Valve	1 (1.1A)	1 (2A)	2 (3A)	4 (2.5A)	2 (2A)
Digital (On/Off Valve)		Selectable: 1 (2A)	Selectable: 2 (3A)	1 (2.5) Selectable: 4	Selectable: 2 (2A)
PWM D.C. Signal		Selectable: 1 (0-100%, High Frequency)	Selectable: 2 (0-100%, High Frequency)	Selectable: 4 (0-100%, 150Hz - 5KHz)	Selectable: 2 (0-100%, High Frequency)
Voltage		Selectable: 1	Selectable: 2		Selectable: 2
PACKAGING	IP67 Remote mount plastic enclosure 12-pin Deutsch IPD connector	AX021600: IP50 PCB conformal coated and housed in heat shrink wrap 1 2-pin, 1 3-pin, 1 4-pin Deutsch IPD connectors AX021601: IP67 Aluminum enclosure 8-pin Deutsch IPD connector	IP67 Remote mount plastic enclosure 24-pin Deutsch IPD connector		IP67 Remote mount stainless steel enclosure 12-pin Deutsch IPD connector
DIMENSIONS	4.62 x 5.24 x 1.43 inches 117.42 x 133.09 x 36.36 mm (W x L x H excluding mating connector)	AX021600: 1.52 x 17.76 x 0.66 inches 38.6 x 451.1 x 16.7 mm (W x L x H excluding mating connectors) AX021601: Contact Axiomatic.	4.62 x 5.24 x 1.43 inches 117.42 x 133.09 x 36.36 mm (W x L x H excluding mating connector)		Contact Axiomatic.
CONFIGURATION	Tera Term	AX070502 Electronic Assistant® (EA) Kit			

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