

TECHNICAL DATASHEET #TD2200AX

Speed Controller

(Panel Mount) P/N: CC-01

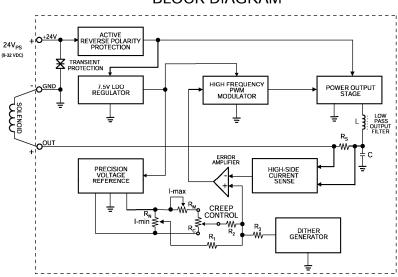
A low-cost manual velocity controller designed to interface between 12 or 24V battery power and a remote grounded proportional solenoid valve

- Accepts a wide range of input operating voltages (12 or 24 VDC nominal)
- Manual control with a built-in potentiometer
- Regulated output of 2 Amps (adjustable)
- Efficient control
- Minimum output current adjustment to compensate for valve deadband
- Fixed superimposed dither to reduce valve hysteresis
- Reverse polarity protection inherent in design
- Short circuit protection
- Filter eliminates electrical noise
- Robust, rugged and highly reliable
- Compact size
- Direct panel mount for remote control of a proportional solenoid
- Version packaged in a metal box for remote mounting available
- Interfaces to a grounded solenoid (not supplied)
- Operational from -40 to 85°C

Application:

- material handling equipment
- aerial lift equipment
- mobile agricultural equipment
- proportional hydraulic circuits in a variety of mobile and industrial applications

BLOCK DIAGRAM





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Technical Specifications:

All specifications are typical at nominal input voltage and 25 degrees C unless otherwise specified.

Input Specifications			Mounting, Connections, Power Up		
Power Source		12 or 24 VDC nominal	and Adjustments		
		(9 to 32 VDC)			
Reverse Voltage		Inherent in design	Mounting holes accept four 8-32 screws (not supplied).		
Protection					
Short Circuit Protection Pr		Provided	Connect the power supply and solenoid		
			 (load). Refer to electrical connection for the pin out of the lead wires. Adjust the trim pots with a jeweller's 		
General Specifications					
		10 to 85°C (-40 to 185°F)		djust the trim pots with a jeweller's crewdriver as described below.	
Temperature			Use the I-Min. trim pot to set up minimum speed		
Solenoid Selection	Solenoid selection should				
(nominal)	comply with:		with minimum control input. (0-500 mA) Setpoint		
(Vpower Coi		ower supply – 1.5V)/I-max coil	increases as trim pot is turned clockwise.		
Electrical	RED - Power +		Use the I-Max. trim pot to set maximum speed		
Connection	GREEN - Power GND		with 100% of control input. (600-2000mA) Setpoint		
		and Output GND	increa	ases as trim pot is turned clockwise.	
		ACK - Output +			
	24 in. of 18 AWG lead wires		Mounting holes (dia. 0.169 inches [4.3 mm]) accept four 8-32 screws.		
Output Specifications				Rear View - Mounting Plate	
Regulated Current		Amps (adjustable with		Rear View : x !! z !	
Output		entiometer) potentiometer turned fully		Rear View - Electronic Assembly	
		kwise (CW) represents a 0A			
	outp	ut or the minimum position. The		ii	
		ntiometer turned fully hterclockwise (CCW) represents		1.97	
		P.A for maximum position.		[50.00] 2.50 [63.74]	
Dither (fixed)	180	Hz frequency		Allow 1.45 inches (37.00 mm)	
	10%	6 amplitude		of clearance below mounting plate	
Minimum Oumant	0.4-	500 ··· A	4	for electronic assembly including wire harness.	
Minimum Current Adjustment		500 mA eases as trim pot is turned		wife flatfless.	
(10 turn trim pot)		kwise)		1.97 [50.00]	
Maximum Current	600 to 2000 mA			, U	
Adjustment	(increases as trim pot is turned clockwise)			2.10 [53.52]	
(10 turn trim pot)			Dimensions: inches [mm] Manual control of the output is achieved by the control potentiometer. The potentiometer turned fully clockwise (CW) represents a 0A output or the		
Dimensions	2.50 x 2.50 x 1.89 inches 63.7 x 63.7 x 48.2 mm (W x L x H) CC-01 art Number:				
Diffictions					
Ordering					
Part Number:				minimum position. The potentiometer turned fully	
i ait Nullibei.				erclockwise (CCW) represents 2A or the	
			maxir	num position.	

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.