

## **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 ٠
- 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) ٠
- 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



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## **Technical Specifications:**

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

6	Mounting, Connections, Power Up
12 or 24 VDC nominal	and Adjustments
(9 to 32 VDC)	
Inherent in design	<ul> <li>Mounting holes accept four 8-32 screws (not supplied)</li> </ul>
Brovidad	Connect the power supply and solenoid
Flovided	(load). Refer to electrical connection for the
ons	pin out of the lead wires.
40 to 85°C (-40 to 185°F)	Adjust the trim pots with a jeweller's screwdriver as described below.
Solenoid selection should	
comply with:	Use the I-Min. thin pot to set up minimum speed
Vpower supply – 1.5V)/I-max	increases as trim pot is turned clockwise.
RED - Power +	Use the I-Max_trim pot to set maximum speed
GREEN - Power GND	with 100% of control input. (600-2000mA) Setpoint
and Output GND	increases as trim pot is turned clockwise.
BLACK - Output +	·
24 in. of 18 AWG lead wires	Mounting holes (dia. 0.169 inches [4.3 mm]) accept four 8-32 screws.
ns	O Rear View - Mounting Plate O
D-2 Amps (adjustable with potentiometer) The potentiometer turned fully clockwise (CW) represents a 0A putput or the minimum position. The potentiometer turned fully counterclockwise (CCW) represents he 2A for maximum position	Rear View - Electronic Assembly 1.97 [50.00] 2.50 [63.74]
180 Hz frequency	Allow 1.45 inches (37.00 mm)
10% amplitude	for electronic assembly including
) to 500 mA	wire harness.
increases as trim pot is turned	
clockwise)	
600 to 2000 mA	Ψ <u>2.10 [53.52]</u>
Increases as trim	2.50 [63.74]
	Dimensions: inches [mm]
2.50 x 2.50 x 1.89 inches	
63.7 x 63.7 x 48.2 mm	Manual control of the output is achieved by the
WxLxH)	control potentiometer. The potentiometer turned
CC-01	Tully clockwise (CVV) represents a UA output or the
	Τ ΠΟΙΟΤΟΙΟΤΟ ΟΟΣΟΙΟΟ ΤΟΔ ΟΟΤΔΟΠΟΤΙΔΙΑΓΤΟΓΟΔΟ ΤΟΙΙΝ
	counterclockwise $(CCW)$ represents 2A or the
	S         12 or 24 VDC nominal (9 to 32 VDC)         Inherent in design         Provided         Ons         -40 to 85°C (-40 to 185°F)         Solenoid selection should comply with: (Vpower supply – 1.5V)/I-max = R coil         RED - Power +         GREEN - Power GND and Output GND         BLACK - Output +         24 in. of 18 AWG lead wires         ns         D-2 Amps (adjustable with botentiometer)         The potentiometer turned fully clockwise (CW) represents a 0A putput or the minimum position. The potentiometer turned fully clockwise (CW) represents the 2A for maximum position.         180 Hz frequency         10% amplitude         0 to 500 mA (increases as trim pot is turned clockwise)         600 to 2000 mA (increases as trim pot is turned clockwise)         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

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 <a href="https://www.axiomatic.com/service/">https://www.axiomatic.com/service/</a>.

Form: TD2200AX-01/17/2024