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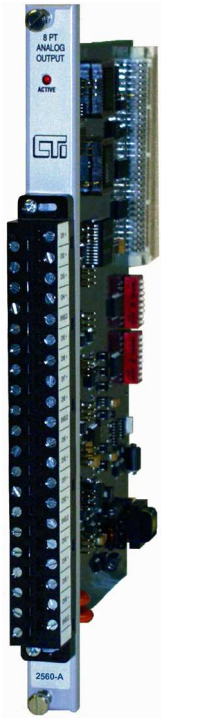
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Find the *Control Technology 2560-A* at our website: ***Click HERE***

2500 Series PLC System
Product Bulletin

2560-A 8-Channel Isolated Analog Output Module



Description

The 2560-A is a high-speed 8-channel isolated analog output module designed to be compatible with the CTI 2500 Series and Simatic® 505 I/O base. The 2560-A translates a digital word from the controller into equivalent analog outputs.

Features

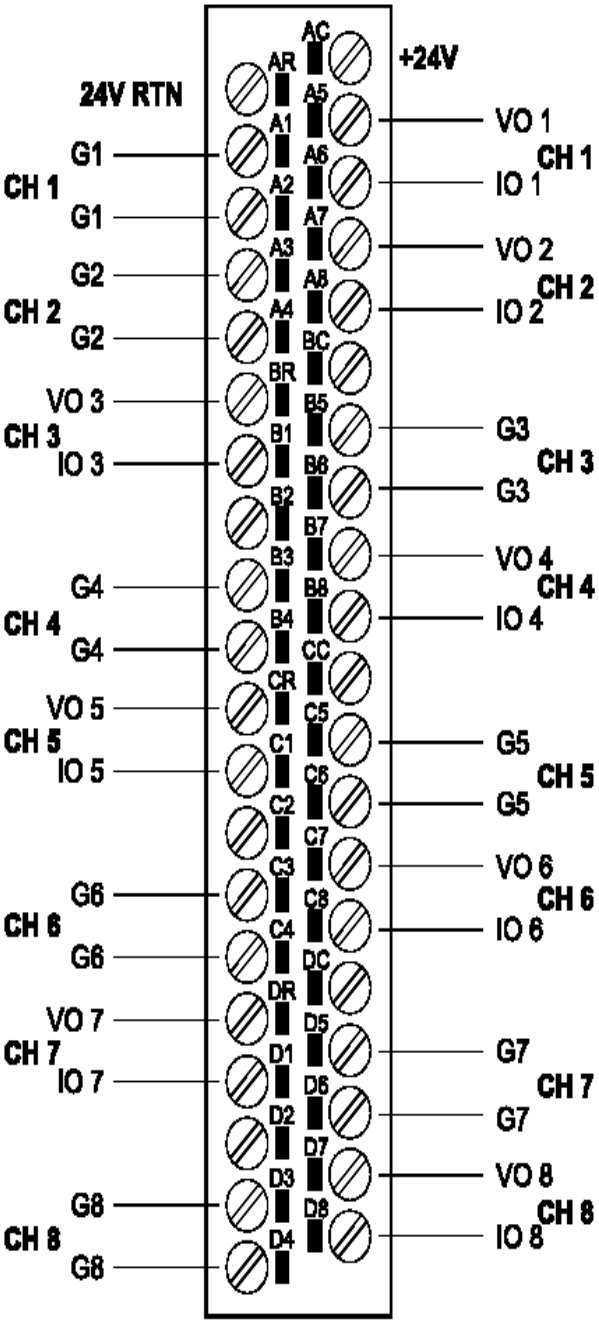
- 1500V channel-to-channel isolation
- 1500V channel-to-PLC backplane isolation
- Fast 0.25 mSec update time per channel
- Voltage and current outputs available simultaneously
- Bipolar or Unipolar outputs per channel
- Individual D/A converter for each output channel

Specifications

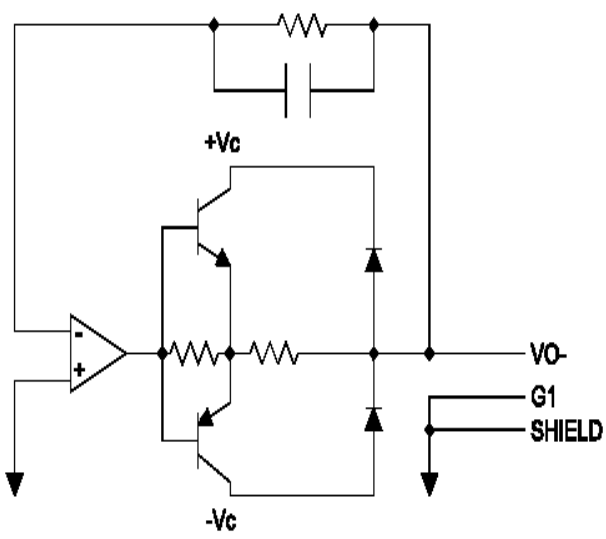
Output Channels: 8 isolated
Response Time: 2 mSec total module
Output Range:
Unipolar: 0 to +5.12 VDC
0 to +10.24 VDC
0 to 20 mA
Bipolar: -5.12 to +5.12 VDC
-10.24 to +10.24 VDC
-20 to +20 mA
Resolution: 12 bits
0-20 mA range = 5 µA/step
0-5 VDC range = 1.25 mV/step
0-10 VDC range = 2.5 mV/step
-5 to +5 VDC range = 2.5 mV/step
-10 to +10 VDC range = 5.0 mV/step
-20 to +20 mA range = 10 µA/step
Isolation: 1500 VDC channel-to-channel
1500 VDC channel-to-PLC
Capacitance Drive: 0.01 microfarads
Load Resistance:
Voltage: 1KΩ minimum, no maximum
Current: 0Ω to 1KΩ max. @ 24 VDC
or up to 2000Ω max. with an external 10V power supply present in circuit
Voltage Accuracy:
0.1% of full scale from 0° to 60°C over total load range
Current Accuracy:
0.5% of full scale from 0° to 60°C over total load range
User Supply:
20 to 28 VDC @ 0.5 Amps (maximum ripple of 0.4 V) NOTE: Maximum load resistance for current output drops to 600Ω @ 20 VDC user supply
Connector: Removable
Wire Gauge: 14 to 22 AWG
Backplane Power: 1.7 Watts
Module Size: Single-wide
Operating Temperature: 0° to 60°C (32° to 140°F)
Storage Temperature: -40° to 85°C (-40° to 185°F)
Humidity, Relative: 5% to 95% (non-condensing)
Agency Approvals: UL, UL for Canada, FM (Class 1, Div 2), CE
Shipping Weight: 1.5 lbs. (0.68 Kg)

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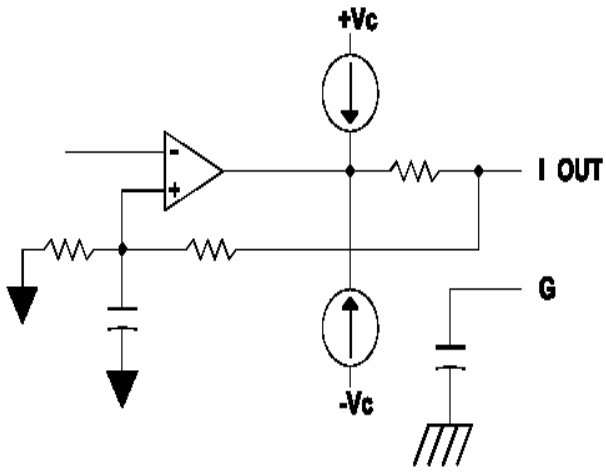
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2560-A Connector



Typical Internal Circuit - Voltage Mode



Typical Internal Circuit - Current Mode

NOTE: The front connector on the module contains a G terminal which may be used for the shield wire if the installation is in a noise free environment. If the installation is in an extremely noisy environment CTI strongly recommends that the shield wires be terminated to the PLC chassis ground.

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