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 CTI Part# 2500-40F
- **Wire Gauge:** 14 to 22 AWG
- **Backplane Power:** 1.7 Watts
- **Module Size:** Single-wide
- **Agency Approvals:** UL, UL for Canada, FM (Class 1, Div 2), CE
- **Shipping Weight:** 1.5 lbs. (0.68 Kg)

Note: This module requires Wiring Connector. Model #2500-40F.
2560-A Connector

**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.