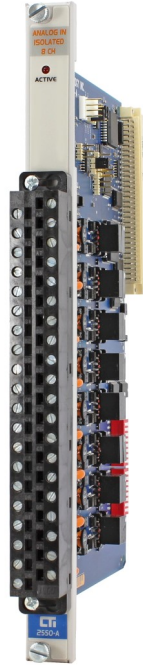


2550-A 8 Channel Isolated Analog Input Module

Classic



Description

The 2550-A is a high-speed 8-channel isolated analog input module designed to be compatible with the CTI 2500 Series and Simatic® 505 base. The 2550-A translates analog input signals into an equivalent digital word.

Features

- 1500V channel-to-channel isolation
- 1500V channel-PLC backplane isolation
- Fast 4ms update time for all channels
- External isolators not required
- No external power supply required for the module
- On-board calculations for 4-20mA offset inputs
- Single-wide module

Specifications

Input Channels:

8 isolated analog input channels

Isolation: 1500VDC Channel-to-channel and 1500 VDC channel-to-PLC

Signal Range:

Unipolar: 0 to 5VDC, 0 to 10VDC or 0 to 20mA

Bipolar: -5 to +5VDC, -10 to +10VDC or -20 to +20mA

Update Time

8 WX mode: 4mSec all channels

Digital Filtering Time Constant: 0.3Sec

DC Input Resistance:

Voltage mode: 1MW

Current mode: 250W

Repeatability: 0.05%

Accuracy:

Voltage mode: 0.1% of full scale from 0-60°C

Current mode: 0.2% of full scale from 0-60°C

Resolution 8WX Mode:

Unipolar 12 bits pls sign:

0-5VDC range = 1.25 mV/step

0-10VDC range = 2.5 mV/step

0-20mA = 5µA/step

Bipolar 11 bits pls sign:

-5 to +5VDC range = 2.5 mV/step

-10 to +10VDC range = 5 mV/step

-20 to +20mA = 10µA/step

Common Mode Rejection:

>140db @ 60Hz

Normal Mode Rejection:

>40db @ 60Hz

Connector: standard CTI 2500-40F 40-position removeable connector, 14-22 AWG

Backplane Power: 6 Watts (maximum)

Module Size:: Single-wide

Input ESD Protection: 20,000V

Overrange Protection: 500V

Shipping Weight: 1.5 lb. (0.68 Kg)

Additional Product Information:

On CTI's Website you find will links to the 2500 Series Std Environmental Specifications and the UL Agency Certificates of Compliance .

ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.



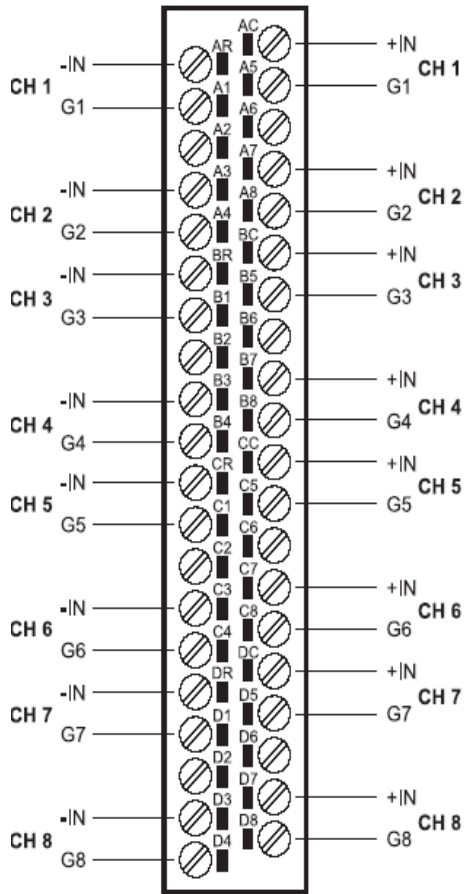
Control Technology Inc.

5734 Middlebrook Pike, Knoxville, TN 37921-5962

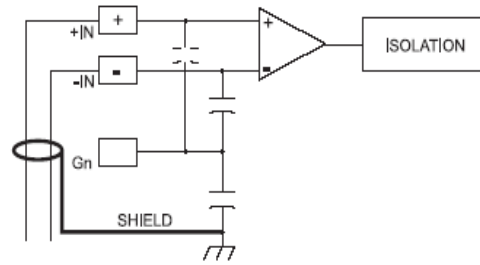
Phone: +1.865.584.0440 Fax: +1.865.584.5720

www.controltechnology.com

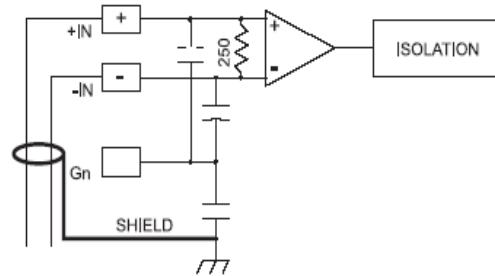
2550-A 8 Channel Isolated Analog Input Module



2550-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.

Closed Loop Control Application

ROCK SOLID PERFORMANCE. TIMELESS COMPATIBILITY.