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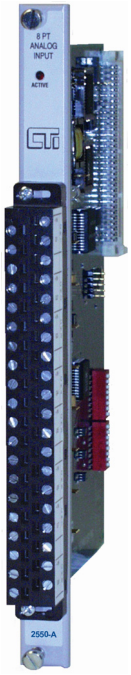
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Find the *Control Technology 2550* at our website: *Click HERE*

2500 Series PLC System
Product Bulletin

2550-A 8-Channel Isolated Analog Input Module



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 I/O base. The 2550-A translates analog input signals into an equivalent digital word.

Features

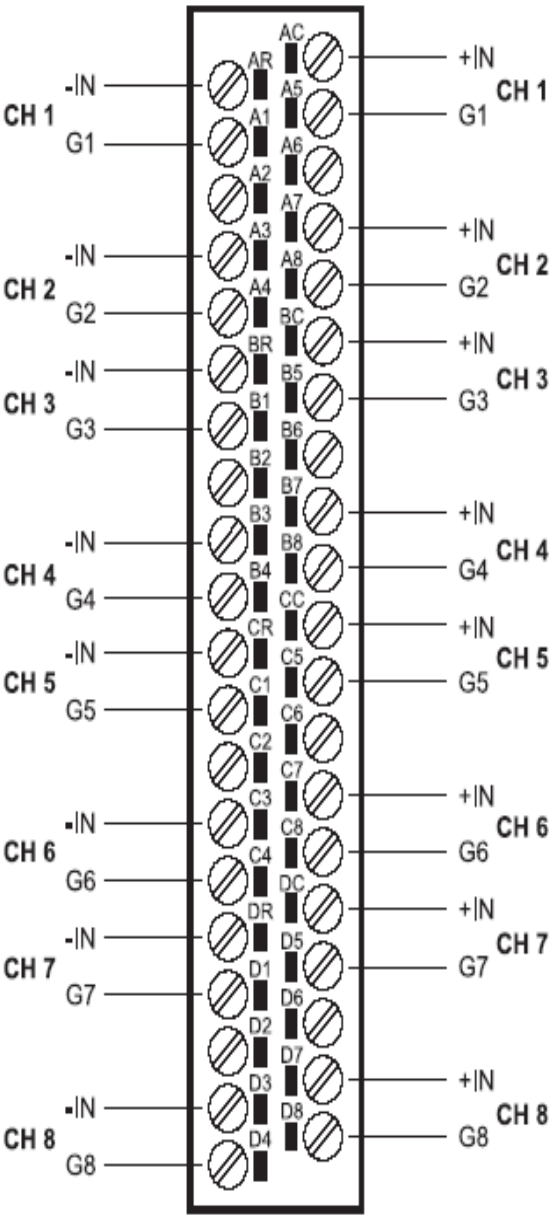
- 1500V channel-to-channel isolation
- 1500V channel-to-PLC backplane isolation
- Fast 4 mSec update time for all 8 channels
- External isolators not required
- No external power supply required for module
- No external current resistor required
- On-board calculations for 4-20 mA offset inputs
- Single-wide module

Specifications

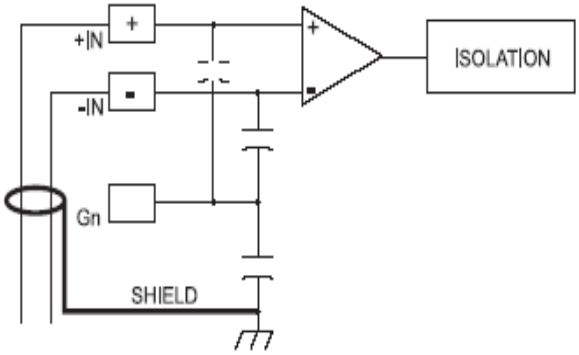
Input Channels: 8 isolated analog input channels
Signal Range:
Unipolar: 0 to 5 VDC, 0 to 10 VDC or 0 to 20 mA
Bipolar: -5 to +5 VDC, -10 to +10 VDC or
-20 to +20 mA
Update Time:
8 WX mode:4 mSec all channels
Digital Filtering Time Constant: 0.3 Sec
DC Input Resistance:
Voltage mode: 1 MW
Current mode: 250W
Repeatability: 0.05%
Accuracy:
Voltage mode: 0.1% of full scale from 0 to 60C
Current mode: 0.2% of full scale from 0 to 60C
Resolution 8 WX Mode:
Unipolar 12 bits plus sign:
0-5 VDC range = 1.25 mV/step
0-10 VDC range = 2.5 mV/step
0-20 mA range = 5 µA/step
Bipolar 11 bits plus sign:
-5 to +5 VDC range = 2.5 mV/step
-10 to +10 VDC range = 5 mV/step
-20 to +20 mA range = 10 µA/step
Common Mode Rejection:
>140db @ 60 Hz (digital filtering disabled)
Normal Mode Rejection:
>40db @ 500 Hz (digital filtering enabled)
Connector: Removable
Wire Gauge: 14-22 AWG
Backplane Power: 6 Watts (maximum)
Module Size:Single-wide
Input Protection:
Input ESD Protection: 20,000 V
Overrange Protection: 500 V
Isolation: 1500 VDC channel-to-channel
1500 VDC channel-to-PLC
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 Canada, FM (Class I, Div 2), CE
Shipping Weight: 1.5 lb. (0.68 Kg)

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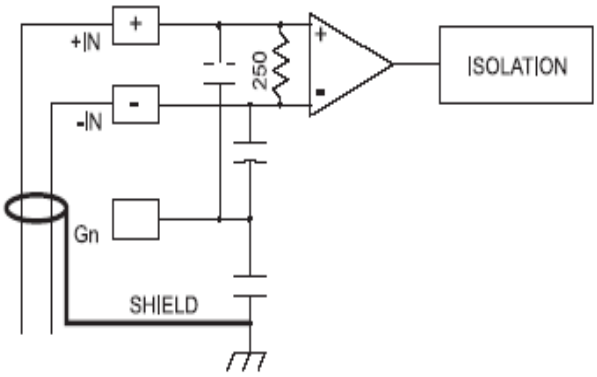
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2550-A Connector



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.

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