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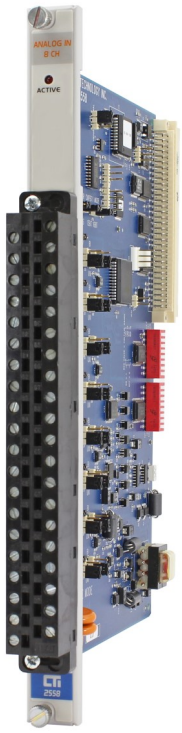
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2500 Series® Process Control System
Product Bulletin

2558 8-Channel Analog Input Module

Classic



Description

The 2558 is an 8-channel analog input module designed to be compatible with the SIMATIC® 505 series I/O base. The 2558 translates analog input signals into equivalent digital words. The 2558 is fully compatible with CTI's 2500 Series CPUs and all versions of the SIMATIC® 545 and 555 PLCs.

Features

- SIMATIC® 505 base format
- 8 analog input channels
- 140Vrms isolation between channels
- 1500V channel-to-PLC backplane isolation
- Supports 16-bit and 13-bit resolution
- Fast 5 mSec update time for all 8 channels
- 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 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; 5 mSec all channels

Digital Filtering Time Constant: 0.3 Sec

DC Input Resistance:
Voltage mode: 780kΩ
Current mode: 250Ω

Repeatability: 0.0025%

Accuracy:
Voltage mode: 0.125% of full scale from 0° to 60° C
Current mode: 0.225% of full scale from 0° to 60° C

Resolution 8 WX Mode:
Unipolar 15 bits plus sign:
0 - 5 VDC range = 156µV/step
0 - 10 VDC range = 312µV/step
0 - 20 mA range = .625µA/step
Bipolar 15 bits plus sign:
-5 to +5 VDC range = 156µV/step
-10 to +10 VDC range = 312µV/step
-20 to +20 mA range = .625µA/step

Common Mode Rejection:
>120db @ 60 Hz (digital filtering disabled)

Normal Mode Rejection:
>40db @ 500 Hz (digital filtering enabled)

Connector: Removable (requires 2500-40F)

Wire Gauge: 14-22 AWG

Backplane Power: 3 Watts (maximum)

Module Size: Single wide

Input Protection:
Input ESD Protection: 20,000 V, IEC 1000-4-2, Level 4
Overrange Protection: +/- 300 VDC

Isolation: 1500 VDC channel-to-PLC

Shipping Weight: 1.5 lb (0.68 Kg)

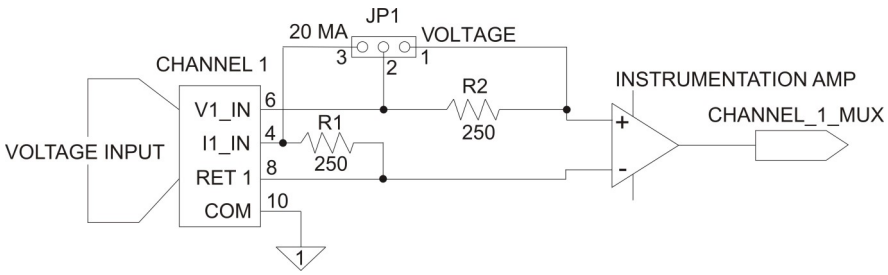
Additional Product Information:

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

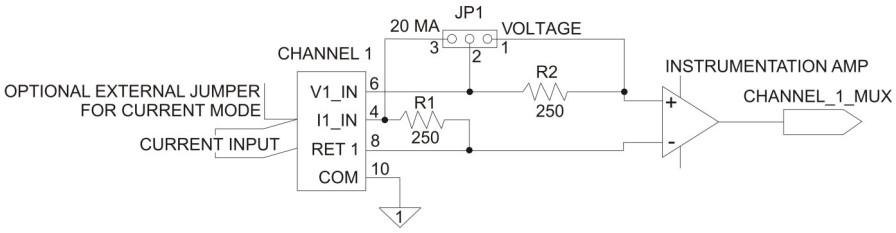
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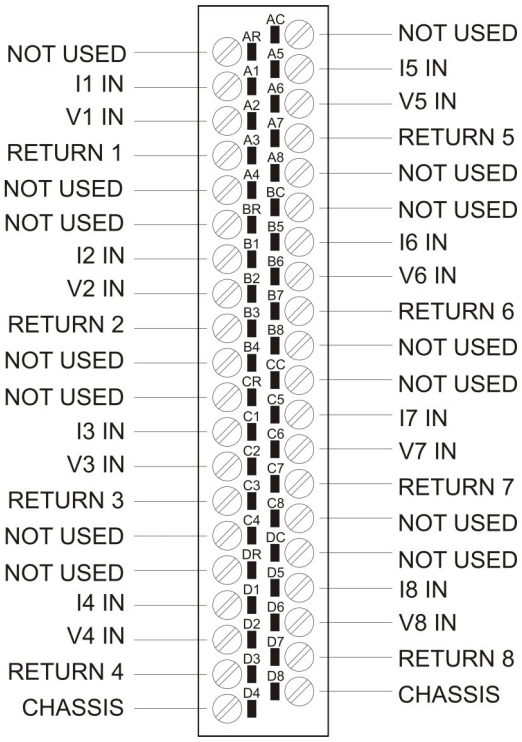
2558 8-Channel Analog Input Module



Typical Internal Circuit Voltage Mode



Typical Internal Circuit Current Mode



2558 Wiring Connector

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