# SJ-ETHER/SJ Series

**Analog Module** 

# ■Analog Input/Output Module 《Input 4 Channels Output 2 Channels》

C0-4AD2DA-2



### **General Specifications**

Items	Specifications
Field to Logic Side Isolation	1,800 V AC
External 24 VDC Power Required	65 mA
Bus Power Required (24 V DC)	15 mA
Terminal Block Replacement	ADC p/n CO-16TB
Weight	86 g

#### Input Specifications

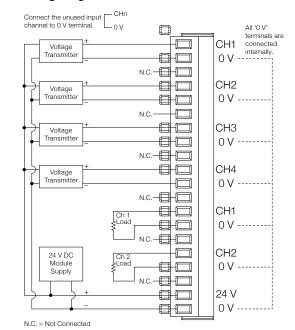
Input Specification	Specifications
Inputs per Module	4
Input Range	0 to 10 V
Resolution	13-bit, 1,22 mV/count
Input Type	Single ended (One common)
Maximum Continuous Overload	±100 V DC
Input Impedance	> 150 kΩ
Filter Charactistics	Low pass, -3 dB at 500 Hz
Sample Durtion Time	5 ms
All Channel Update Rate	20 ms
Open Circuit Detection Time	Zero reading within 100 ms
Conversion Method	Successive approximation
Accuracy Against Temperature	Maximum ±75 ppm/°C
Maximum Inaccuracy	0.5% of range (including temperature changes)
Linearity Error (End-to-end)	±3 count maximum, monotonic with no missing codes
Input Stability and Repeatability	Maximum ±2 count
Full Scale Error (Including Offset)	Maximum ±8 count
Offset Error	Maximum ±8 count
Maximum Crosstalk at DC, 50/60 Hz	Maximum ±2 count

#### **Output Specifications**

Items	Specifications
Outputs per Module	2
Output Range	0 to 10 V
Resolution	12-bit, 2.44 mV/count
Output Type	Voltage sourcing at 10mA maximum (One common)
Output Value in Program Mode	Determined by CPU
Output Value in Fault Mode	0 V
Output Impedance	0.2 Ω typical
Load Impedance	> 1,000 Ω
Maximum Capacitive Load	0.01 uF maximum
Allowed Load Type	Grounded
Maximum Inaccuracy	±1% of range
Maximum Full Scale Error (Not including Offset)	±0.2% of range maximum voltage

Maximum Offset Error	$\pm 0.2\%$ of range maximum
Accuracy Against Temperature	$\pm 75$ ppm/°C maximum full scale calibration change ( $\pm 0.0025\%$ of range/°C)
Maximum Crosstalk at DC, 50/60 Hz	-72 dB, 1 LSB
Linearity Error (End-to-end)	$\pm 4$ LSB maximum, ( $\pm 0.1\%$ of full scale), monotonic with no missing codes
Output Stability and Repeatability	±2% LSB after 10 minute warmup period typical
Output Ripple	0.5% of full scale
Output Settling Time	0.3 ms maximum, 5 µs minimum (Full scale range)
All Channel Update Rate	20 ms
Maximum Continuous Overload	Outputs current limited to 40 mA typical; continuous overloads on multiple outputs can damage module.
Type of Output Protection	0.1 µF transient suppressor
Output Signal at Power Up and Power Down	4 mA

## Wiring Diagram



COUNTER INFORMATION COMMON Subject Matter

SJ-ETHER/SJ

DL05/06

DL205

D4

D3

KPP

Programmer

DirectSOFT
Terminator I/O

PLC

НМІ

SENSOR

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Features
Specifications

Dimensions

CPU Specifications Power Supply

Module
Input/Output

Analog Module