

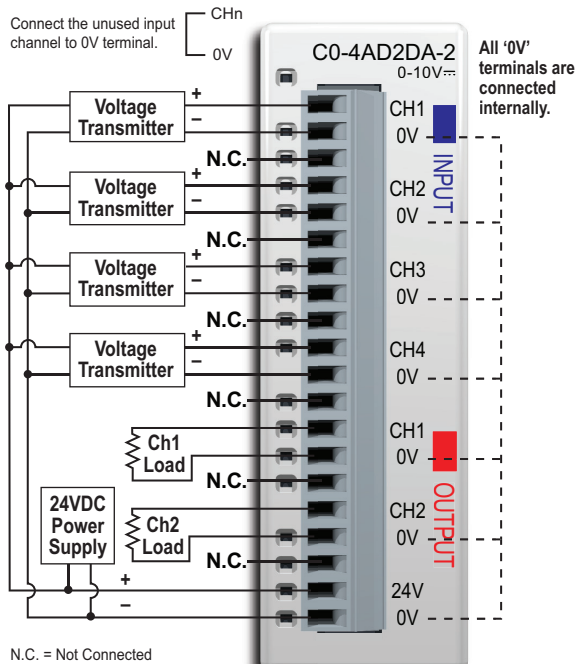
# CLICK I/O Module Specifications

**C0-4AD2DA-2** **\$149.00**

## 4-Channel Analog Voltage Input and 2-Channel Analog Voltage Output Module

4-channel analog voltage input (13-bit resolution) and 2-channel analog voltage output (12-bit resolution) module, range: 0-10V. External 24VDC power required, removable terminal block included. (replacement ADC p/n C0-16TB).

### Wiring Diagram



N.C. = Not Connected



**NOTE:** When using this module you must also use CLICK programming software and CPU firmware version V1.40 or later.

### C0-4AD2DA-2 General Specifications

<b>Field to Logic Side Isolation</b>	1800 VAC
<b>External 24 VDC Power Required</b>	65 mA
<b>Base Power Required (24 VDC)</b>	15 mA
<b>Terminal Block Replacement</b>	ADC p/n C0-16TB
<b>Weight</b>	3.1 oz (86 g)



ZL-RTB20 20-pin feed-through connector module

### ZipLink Pre-Wired PLC Connection Cables and Modules for CLICK PLC

- 20-pin connector cable
- ZL-C0-CBL20 (0.5 m length)
- ZL-C0-CBL20-1 (1.0 m length)
- ZL-C0-CBL20-2 (2.0 m length)



### C0-4AD2DA-2 Input Specifications

<b>Inputs per Module</b>	4
<b>Input Range</b>	0-10 V
<b>Resolution</b>	13-bit, 1.22 mV per count
<b>Input Type</b>	Single ended (one common)
<b>Maximum Continuous Overload</b>	±100 VDC
<b>Input Impedance</b>	>150 kΩ
<b>Filter Characteristics</b>	Low pass, -3 dB at 500 Hz
<b>Sample Duration Time</b>	5 ms
<b>All Channel Update Rate</b>	20 ms
<b>Open Circuit Detection Time</b>	Zero reading within 100 ms
<b>Conversion Method</b>	Successive approximation
<b>Accuracy vs. Temperature</b>	±75 PPM/°C maximum
<b>Maximum Inaccuracy</b>	0.5% of range (including temperature changes)
<b>Linearity Error (End to End)</b>	±3 count maximum, monotonic with no missing codes
<b>Input Stability and Repeatability</b>	±2 count maximum
<b>Full Scale Calibration Error (including Offset)</b>	±8 count maximum
<b>Offset Calibration Error</b>	±8 count maximum
<b>Maximum Crosstalk at DC, 50/60 Hz</b>	±2 count maximum

### C0-4AD2DA-2 Output Specifications

<b>Outputs per Module</b>	2
<b>Output Range</b>	0-10 V
<b>Resolution</b>	12-bit, 2.44 mV per count
<b>Output Type</b>	Voltage sourcing at 10mA max. (one common)
<b>Output Value in Program Mode</b>	Determined by CPU
<b>Output Value in Fault Mode</b>	0 V
<b>Output Impedance</b>	0.2Ω typical
<b>Load Impedance</b>	>1000Ω
<b>Maximum Capacitive Load</b>	0.01 uF maximum
<b>Allowed Load Type</b>	Grounded
<b>Maximum Inaccuracy</b>	1% of range
<b>Max. Full Scale Calibration Error (Not including Offset)</b>	±0.2% of range maximum voltage
<b>Max. Offset Calibration Error</b>	±0.2% of range maximum
<b>Accuracy vs. Temperature</b>	±75 PPM/°C maximum full scale calibration change (±0.0025% of range/°C)
<b>Max. Crosstalk at DC, 50/60 Hz</b>	-72 dB, 1 LSB
<b>Linearity Error (End to End)</b>	±4 LSB maximum, (±0.1% of full scale); monotonic with no missing codes
<b>Output Stability and Repeatability</b>	±2% LSB after 10 minute warmup period typical
<b>Output Ripple</b>	0.5% of full scale
<b>Output Settling Time</b>	0.3 ms maximum, 5 μs minimum (full scale range)
<b>All Channel Update Rate</b>	20 ms
<b>Max. Continuous Overload</b>	Outputs current limited to 40 mA typical; continuous overloads on multiple outputs can damage module.
<b>Type of Output Protection</b>	0.1 μF transient suppressor
<b>Output Signal at Power Up or Power Down</b>	0 V