

I-87022W

2-channel Analog Output Module

Features

- 2-channel Voltage or Current Output
- Individual Channel Configuration
- 3000 VDC Intra-module Isolation
- 3 kV Channel-to-Channel Isolation
- Open Wire Detection for Current Output
- Readback Voltage or Current
- RF Immunity
- Configurable Power-on Value and Safe Value Settings
- 4 kV ESD Protection
- Wide Operating Temperature Range: -25 ~ +75°C

Introduction

The I-87022W is a Sink Type Analog Output Module that includes 2 Analog Output channels, and provides options for configuring power-on and safe values. It also provides a programmable Analog output range (0 ~ +10 V, +4 ~ +20 mA or 0 ~ +20 mA), and each Analog Output can be configured for an individual range. The module provides an RF immunity level matching that defined in the IEC 61000-4-3 standard. Voltage or current output is jumper selectable, and the module also features per-channel open wire detection for +4 ~ +20 mA output, together with ±4 KV ESD protection and 3000 VDC intra-module isolation.

System Specifications

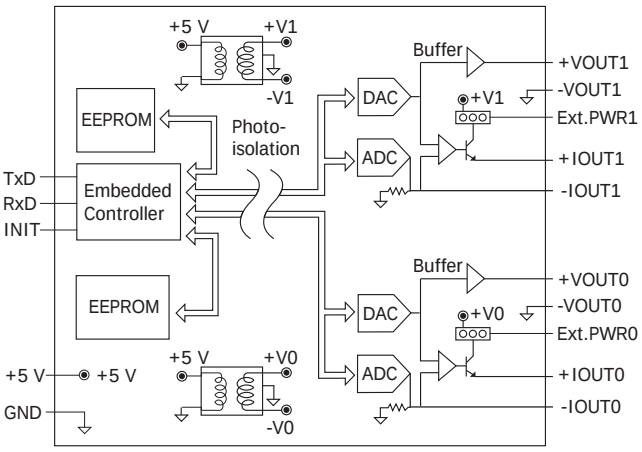
Communication	
Interface	RS-485
Format	N, 8, 1
Baud Rate	1200 to 115200 bps
Protocol	DCON
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)
LED Indicators/Display	
System LED Indictors	1 as Power/Communication Indicator
Isolation	
Intra-module Isolation, Field-to-Logic	3000 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal ±8 kV Air for Random Point
RS Immunity (IEC 61000-4-3)	3 V/m, 80 MHz ~ 1 GHz
Power	
Power Consumption	1.8 W Max.
Mechanical	
Dimensions (L × W × H)	115 mm × 30 mm × 102 mm
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-40 ~ +85°C
Humidity	10 ~ 95 % RH, Non-condensing

I/O Specifications

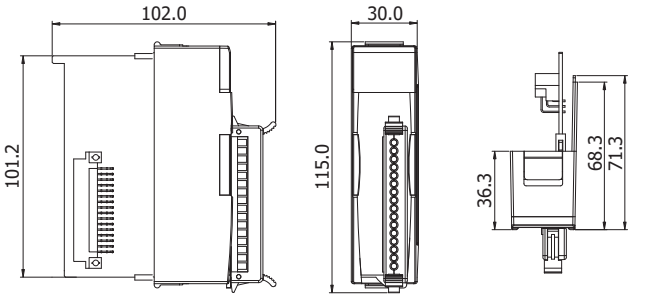
Analog Output		
Channels		2
Type		Sink
Range		0 ~ +10 V 0 ~ +20 mA +4 ~ +20 mA
Resolution		12-bit
Accuracy		±0.1% of FSR
Readback Accuracy		±0.5% of FSR
DA Output Response Time		10 ms for all Channel
Programmable Output Slope	Voltage	0.0625 ~ 1024.0 V/Second
	Current	0.125 ~ 2048 mA/Second
Current Load Resistance		Internal Power: 500 Ω
		External Power: 1050 Ω
Voltage Output Capability		10 V @ 10 mA
Channel-to-Channel Isolation		3 kV
Open Wire Detection		+4 ~ +20 mA
Short Circuit Protection		Yes
Individual Channel Configuration		Yes
Power-on Value		Yes
Safe Value		Yes

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Internal I/O Structure



Dimensions (Units: mm)



Left View | Front View | Top View

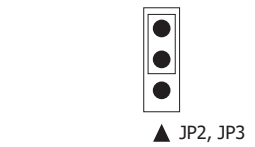
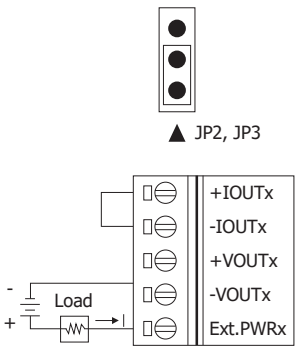
Wire Connections

Voltage Output Wire Connection

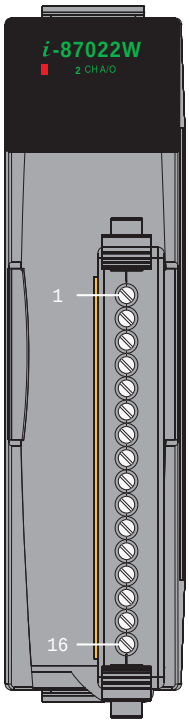


Note: To implement voltage readback, the +IOUTx and -IOUTx terminals should be short-circuited.

Current Output Wire Connection

Internal Power	External Power
	

Pin Assignments



Terminal No.	Pin Assignment
01	N/A
02	N/A
03	N/A
04	N/A
05	N/A
06	N/A
07	VOUT0+
08	VOUT0-
09	IOUT0+
10	IOUT0-
11	EXT.PWR0
12	VOUT1+
13	VOUT1-
14	IOUT1+
15	IOUT1-
16	EXT.PWR1

Accessories

 SG-770 CR	7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)

Ordering Information

I-87022W-G CR	2-channel 12-bit Analog Output Module with Channel-to-Channel Isolation (Gray Cover) (RoHS)

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