I-8026W

6-channel Analog Input, 2-channel Analog Output,
2-channel Digital Input and 2-channel Digital Output Module

Features

- Multifunction (6AI, 2AO, 2DI and 2DO)
- Overload and Short Circuit Protection for Digital Output
- Individual Channel Configuration
- Jumper Selectable Voltage or Current Input/Output
- ±4 kV Contact ESD Protection
- Wide Operating Temperature Range: -25 °C ~ +75 °C

Introduction

The I-8026W is a multifunction module that includes 6 analog input channels, 2 analog output channels, 2 digital input channels, 2 digital output channels. It provides a programmable input range on all analog input (±10 V, ±5 V ±2.5, ±1.25, ±20 mA (Jumper Select)), analog outputs are 12 bit at ±10 V, ±5 V, 0 ~ 10 V, 0 ~ 5 V ,0 ~ 20mA. Each analog input can be configured for an individual range and provides a high overvoltage protection of 240 Vrms. Voltage and current inputs/outputs are jumper selectable.

Applications

- Industrial Automation
- Industrial Machinery
- Building Automation
- Food and Beverage Systems
- Semiconductor Fabrication
- Control Systems

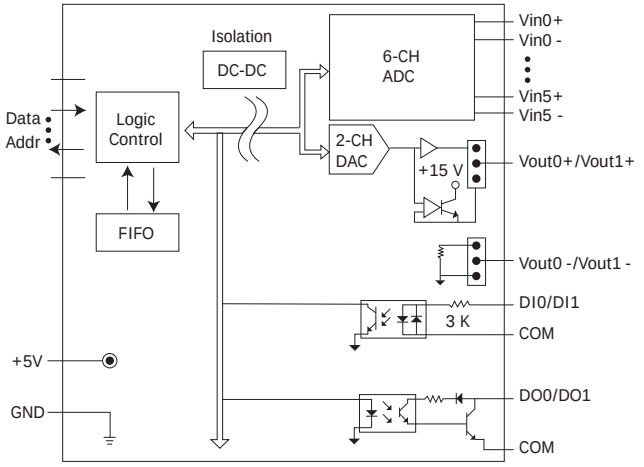
System Specifications

Model	I-8026W
LED Indicators/Display	
System LED Indicator	1 LED as Power/Communication Indicator
I/O LED Indicator	4 LEDs as Digital Input & Digital Output Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	2500 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal
	±8 kV Air for Random Point
Power	
Power Consumption	1.8 W Max.
Mechanical	
Dimensions (W x L x H)	30 mm x 102 mm x 115 mm
Environment	
OperatingTemperature	-25 ~ +75°C
Storage Temperature	-30 ~ +80°C
Humidity	5 ~ 95% RH, Non-condensing

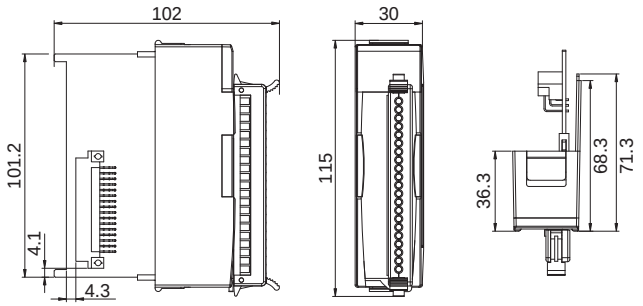
I/O Specifications

Model	I-8026W
Analog Input	
Channels	6
Type	±10 V, ±5 V ±2.5, ±1.25, ±20 mA (Jumper Select)
Resolution	12-bit
Accuracy	0.2% of FSR +/- 1LSB
Overvoltage Protection	240 Vrms
Input Impedance	>2M Ω
Sampling Rate	Max to 9k Samples/sec
Individual Channel Configuration	Yes
Analog Output	
Channels	2
Type	±10 V, ±5 V, 0 ~ 10 V, 0 ~ 5 V, 0 ~ 20 mA (Jumper Select)
Resolution	12-bit
Accuracy	+/-0.2% of FSR
Voltage Output Capability	10 V @ 20 mA
Individual Channel Configuration	Yes
Digital Input	
Channels	2
Type	Wet contact (Sink, Source)
On Voltage Level	+10 VDC ~ 30 VDC
Off Voltage Level	+4 VDC Max.
Digital Output	
Channels	2
Type	Isolated Open Collector (Sink)
Max. Load Current	100 mA/channel
Load Voltage	+5 VDC~ +30 VDC

Internal I/O Structure



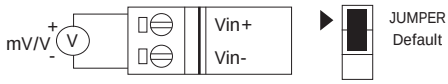
Dimensions (Units: mm)



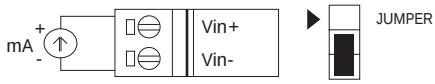
Left Side View | Front View | Top View

Wire Connections

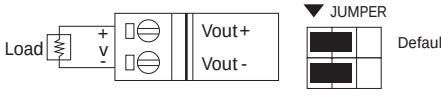
Voltage Input



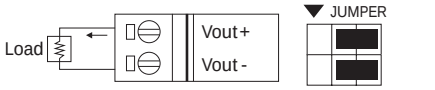
Current Input

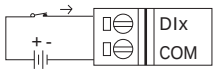
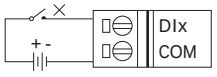
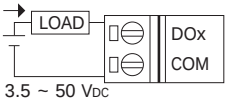
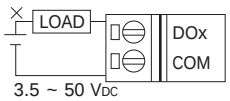


Voltage Output

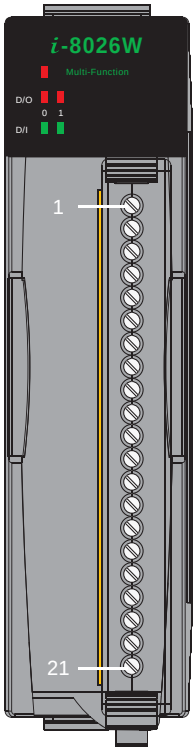


Current Output



Digital Input/ Counter	ON State Readback as 1	OFF State Readback as 0
Wet Contact (Sink)		
Digital Output	**ON State Readback as 1**	**OFF State Readback as 0**
Open Collector (Sink)		

Pin Assignments



Terminal No.	Pin Assignment
01	Vin0+
02	Vin0 -
03	Vin1+
04	Vin1 -
05	Vin2+
06	Vin2 -
07	Vin3+
08	Vin3 -
09	Vin4+
10	Vin4 -
11	Vin5+
12	Vin5 -
13	Vout0+
14	Vout0 -
15	Vout1+
16	Vout2 -
17	DO0
18	DO1
19	DI0
20	DI1
21	COM

Ordering Information

I-8026W CR	6-channel Analog Input, 2-channel Analog Output, 2-channel Digital Input and 2-channel Digital Output Module (RoHS) Art. No. 141420