



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 ($\pm 10\text{ V}$, $\pm 5\text{ V}$, ± 2.5 , ± 1.25 , $\pm 20\text{ mA}$ (Jumper Select)), analog outputs are 12 bit at $\pm 10\text{ V}$, $\pm 5\text{ V}$, $0 \sim 10\text{ V}$, $0 \sim 5\text{ V}$, $0 \sim 20\text{ mA}$. 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.

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)	$\pm 4\text{ kV}$ Contact for Each Terminal
	$\pm 8\text{ kV}$ 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	
Operating Temperature	$-25 \sim +75^{\circ}\text{C}$
Storage Temperature	$-30 \sim +80^{\circ}\text{C}$
Humidity	$5 \sim 95\%$ RH, Non-condensing

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
- $\pm 4\text{ kV}$ Contact ESD Protection
- Wide Operating Temperature Range: $-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$



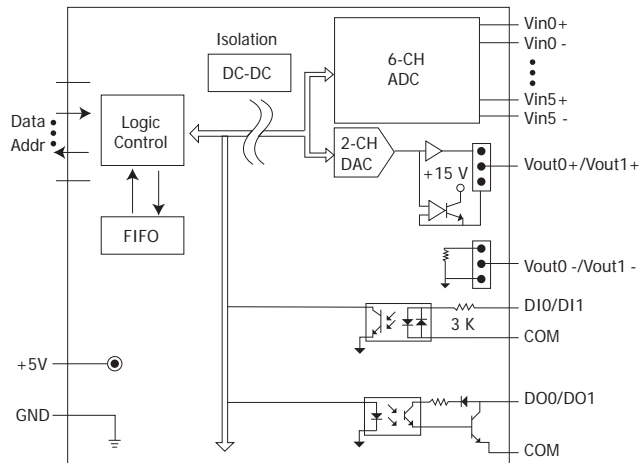
Applications

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

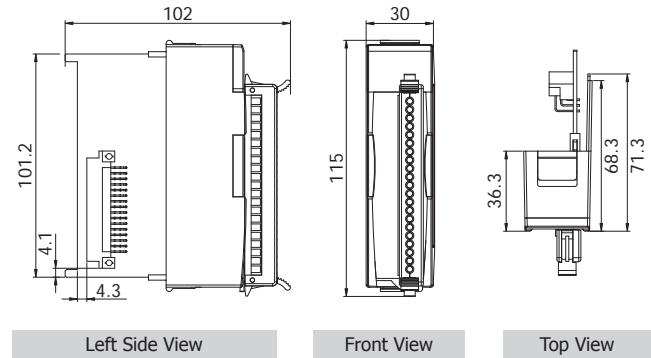
I/O Specifications

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

Internal I/O Structure



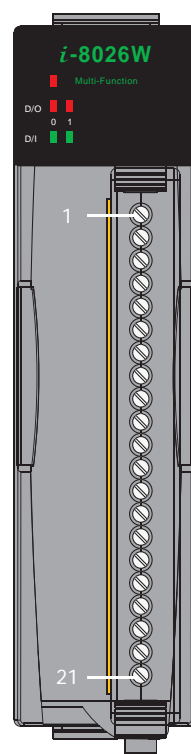
Dimensions (Units: mm)



Wire Connections

Voltage Input		
mV/V		JUMPER Default
Current Input		
mA		JUMPER
Voltage Output		
Load		JUMPER Default
Current Output		
Load		JUMPER
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)