



I-87017W | I-87017RW

8-channel Analog Input Module

Features

- 8-channel Analog Input
- Voltage or Current Input
- Overvoltage Protection
  - I-87017W: ± 35 VDC
  - I-87017RW: 240 Vrms
- 4 kV ESD and EFT Protection
- 3000 VDC Intra-module Isolation

Introduction

The I-87017RW is an analog input module with an extremely highquality protection mechanism where the overvoltage protection can be as high as 240 Vrms. The input type can be set to either voltage or current. The I-87017RW is an upgraded version of I-87017W, with the only diff erences being that the I-87017RW is more suitable for critically harsh environment. The sampling rate for the I-87017RW is can be adjusted to either fast mode or normal mode depending on individual requirements. The I-87017RW also provides 4 kV ESD protection as well as 3000 VDC intra-module isolation.

System Specifications

Model	I-87017W	I-87017RW
COM Port		
Ports	RS-485	
Data Format	N, 8, 1	
Baud Rate	1200 ~ 115200 bps	
Protocol	DCON	
CPU Module		
Dual Watchdog Timer	Module (1.6 Seconds), Communication (Programmable)	
LED Indicators		
System LED Indicator	1 LED as Power Indicator	
I/O LED Indicator	16 as High/Low Alarm Signals	
Isolation		
Intra-module Isolation, Field-to-Logic	3000 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for Each port, ±8 kV Air for Random Poin	
Power		
Consumption	1.3 W Max.	
Mechanical		
Dimensions (W x L x H)	30 mm x 115 mm x 102 mm	
Environment		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-40 ~ +85 °C	
Humidity	10 ~ 95 % RH, Non-condensing	

I/O Specifications

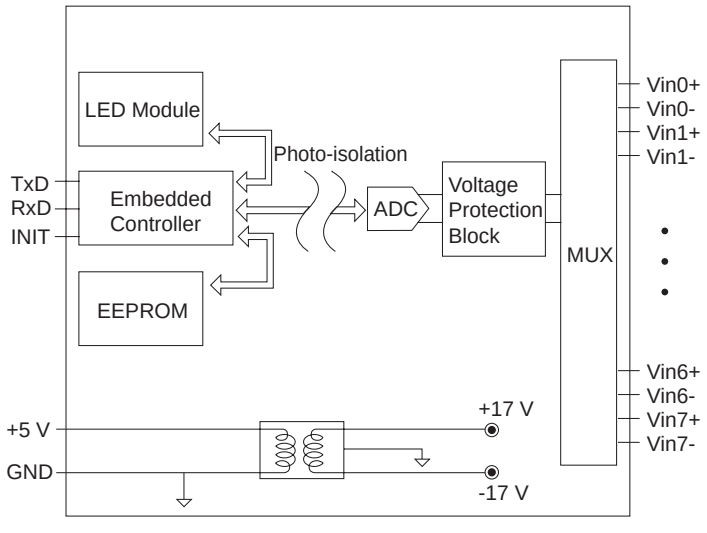
Model		I-87017W	I-87017RW
Analog Input			
Channels		8	
Wiring		Differential	
Range		±10 VDC, ±5 VDC, ±1 VDC, ±500 mV, ±150 mV, 0 ~ +20 mA, +4 ~ +20 mA, -20 mA ~ +20 mA (Requires Optional External 125 Ω Resistor)	
Resolution		16-bit	
Accuracy	Normal Mode	±0.1% of FSR	
	Fast Mode	±0.5% of FSR	
Sampling Rate	Normal Mode	10 Hz (Total)	
	Fast Mode	50 Hz (Total)	
3dB Bandwidth	Normal Mode	15.7 Hz	
	Fast Mode	78.7 Hz	
Zero Drift		±20 μV/°C	
Span Drift		±25 ppm/°C	
Common Mode Rejection		86 dB	
Normal Mode Rejection		100 dB	
Input Impedance		20 MΩ	>2 MΩ
Overvoltage Protection		±35 VDC	240 Vrms

Applications

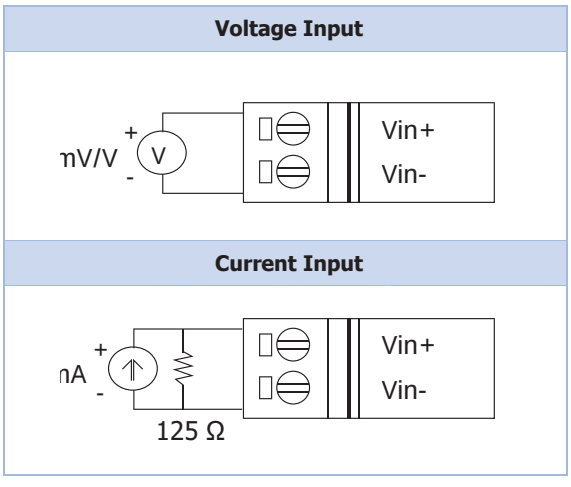
- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

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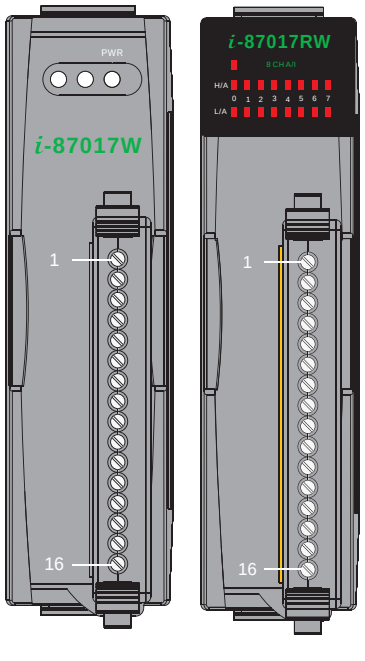
Internal I/O Structure



Wire Connections

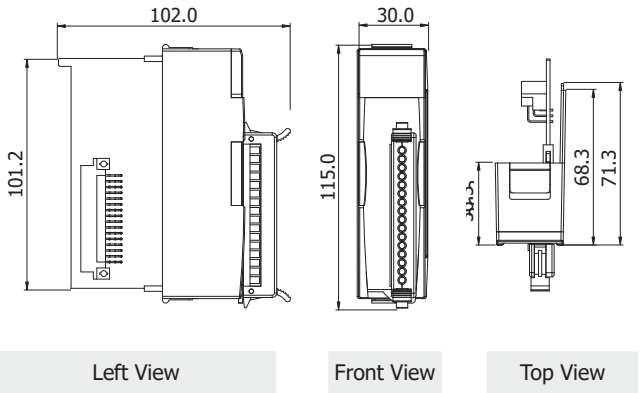


Pin Assignments



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	Vin6+
14	Vin6-
15	Vin7+
16	Vin7-

Dimensions



Left View | Front View | Top View

Accessories

2AB125R CR	125 Ω, 0.1 % DIP Resistor used for Current Type Input Module

Ordering Information

I-87017W-G CR	8-channel Analog Input Module (RoHS)
I-87017RW-G CR	8-channel Analog Input Module with High Overvoltage Protection (RoHS)

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