



I-7014D

1-channel Transmitter Input with 7-segment LED Display

Introduction

The I-7014 is an 1-channel Transmitter Input module that provides a +15 VDC isolated loop power supply for transmitter input, and is designed for both voltage and current input types. In addition, the module provides 1 Digital Input channel as a 50 Hz event counter and 2 Digital Output channels that can be used as a high/low alarm. The I-7014 also features 3000 VDC intra-module isolation.

Specifications

CPU Module	
Watchdog Timer	Yes, Module (1.6 Seconds), Communication (Programmable)
Display	
Type	5-Digit 7 Segment LED Display
Isolation	
Intra-module Isolation	3000 VDC
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV to Power Line
ESD (IEC 61000-4-2)	±2 kV Contact for each Terminal
Surge (IEC 61000-4-5)	±0.5 kV for Power Line
LED Indicators	
Status	1 x Power and Communication
Analog Input	
Channels	1 Differential
Type	Voltage Current
Range	±150 mV, ±500 mV, ±1V, ±5 V, ±10 V, ±20 mA
Resolution	16-bit
Accuracy	±0.05%
Sampling Rate	10 Hz
Input Impedance	Voltage: 30 kΩ Current: 125 Ω
Overvoltage Protection	±15 VDC
Isolated Loop Power	±15 VDC, 30 mA
Digital Input/Counter	
Channels	1
Type	Dry Contact
Sink/Source (NPN/PNP)	Source
ON Voltage Level	Close to GND
OFF Voltage Level	Open
Max. Counts	Yes, 50 Hz, 16-bit
Input Impedance	3 kΩ
Overvoltage Protection	±30 VDC

Features

- Current, Voltage and Transmitter Input
- High Resolution: 16-bit
- 50 Hz Event Counter (Digital Input)
- High/Low Alarm (Digital Output)
- Dual Watchdog

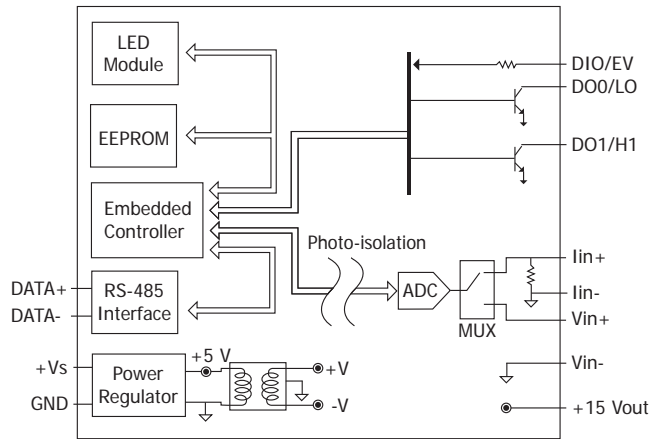


Applications

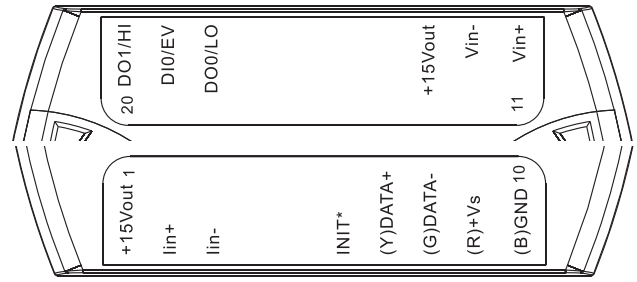
- Building Automation
- Machine Automation
- Remote Diagnosis
- Factory Automation
- Remote Maintenance
- Testing Equipment

Digital Output	
Channels	2
Type	Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+3.5 ~ +30 VDC
Load Current	30 mA/Channel
Power on Value	Yes
Safe Value	Yes
COM Ports	
Ports	1 x RS-485
Baud Rate	1200 ~ 115200 bps
Data Format	N, 8, 1
Protocol	DCON
Power	
Reverse Polarity Protection	Yes
Input Range	+10 ~ +30 VDC
Consumption	1.9 W
Mechanical	
Dimensions (mm)	123 x 72 x 35 (W x L x H)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 95% RH, Non-condensing

Internal I/O Structure



Pin Assignments



Wire Connections

Voltage Input Wire Connection	Current Input Wire Connection
2-wire Transmitter Wire Connection	3-wire Transmitter Wire Connection

Digital Input/Counter	Readback as 1	Readback as 0
	Open	Closed to GND
Dry Contact		

Digital Output	ON State	OFF State
	Readback as 1	Readback as 0
Resistance Load		
Inductance Load		

Ordering Information

I-7014D CR	1-channel Transmitter Input with 7-segment LED Display using the DCON and Modbus Protocols (Blue Cover) (RoHS)
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Accessories

	tM-7520U CR Tiny Isolated RS-232 to RS-485 Converter (RoHS)
	tM-7561 CR Tiny USB to Isolated RS-485 Converter with CA-USB18 Cable (RoHS)
	tM-SG4 CR RS-485 Pull-high/Pull-low and Termination Resistor Module (RoHS)

	I-7514U CR Isolated 4-channel RS-485 Repeater/Hub/Splitter (Gray Cover) (RoHS)
	SG-770 CR 7/14 channel Surge Protector (RoHS)
	SG-3000 Series Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Input Transformers