



I-7014D

1-ch Transmitter Input with LED Display

■ Current, Voltage, and Transmitter Inputs ■ High Resolution: 16-bit ■ 50 Hz Event Counter for Digital Input ■ High/Low Alarm for Digital Output ■ Built-in Dual Watchdog

■ 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.

Applications

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

■ System Specifications

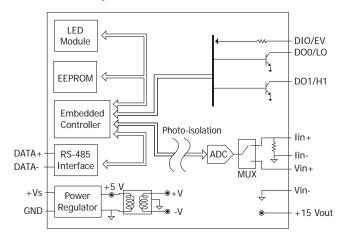
CPU Module		
Watchdog Timer	Module, Communication (Programmable)	
Display		
Туре	5-Digit 7 Segment LED Display	
Isolation		
Intra-module Isolation	3000 VDC	
EMS Protection		
EFT (IEC 61000-4-4)	±4 kV to Power Line	
ESD (IEC 61000-4-2)	±2 kV Contact for Each Terminal	
Surge (IEC 61000-4-5)	±0.5 kV for Power Line	
LED Indicators		
Status	1 x Power and Communication	
COM Ports		
Ports	1 x RS-485	
Baud Rate	1200 ~ 115200 bps	
Data Format	(N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1)	
Protocol	DCON	
Power		
Reverse Polarity Protection	Yes	
Input Range	10 Hz	
Consumption	+10 ~ +30 VDC	
Open Wire Detection	1.9 W	
Mechanical		
Dimensions (mm)	72 x 123 x 35 (W x L x H)	
Installation	DIN-Rail Mounting	
Environment		
Operating Temperature	-25 ∼ +75 °C	
Storage Temperature	-40 ~ +85 °C	
Humidity	10 ~ 95% RH, Non-condensing	

■ I/O Specifications

Analog Input		
Channels	1 Differential	
Туре	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 k Ω Current: 125 Ω	
Overvoltage Protection	±15 VDC	
Isolated Loop Power	±15 VDC, 30 mA	
Digital Input/Counter		
Channels	1	
Туре	Dry Contact	
Sink/Source (NPN/PNP)	Source	
ON Voltage Level	Close to GND	
OFF Voltage Level	Open	
Max. Counts	65535 (16-bit)	
Frequency	50 Hz	
Input Impedance	3 kΩ	
Overvoltage Protection	±30 VDC	
Digital Output		
Channels	2	
Туре	Open Collector	
Sink/Source (NPN/PNP)	Sink	
Load Voltage	+3.5 ~ +30 VDC	
Load Current	30 mA/Channel	
Power on Value	Programmable	
Safe Value	Programmable	

ICP DAS CO., LTD Website: http://www.icpdas.com Vol.2024.04 1/2

■ Internal I/O Structure



■ Pin Assignments



■ Wire Connections



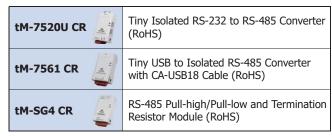
Digital Input/Counter	Readback as 1	Readback as 0
	Open	Closed to GND
Dry Contact	□⊜ DIO/EV □⊜ (B)GND	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

Digital Output	ON State Readback as 1	OFF State Readback as 0
Resistance Load	+ DOx	+ X DOX (B)GND
Inductance Load	+ DOX (B)GND	+ DOX (B)GND

Ordering Information

I-7014D CR 1-ch Transmitter Input with LED Display using DCON Protocol (Blue Cover) (RoHS)

Accessories



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

ICP DAS CO., LTD Website: http://www.icpdas.com Vol.2024.04 2/2