

■ Features ■ Current, Voltage and Transmitter Input High Resolution: 16-bit ■ 50 Hz Event Counter (Digital Input) ■ High/Low Alarm (Digital Output) ■ 3000 V_{DC} Intra-module Isolation ■ Dual Watchdog ■ Wide Operating Temperature Range: -25 to +75°C CE F© X

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 $\ensuremath{\mathbf{1}}$ 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 $\ensuremath{\text{VDC}}$ intra-module isolation.

Applications _

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

System Specifications _

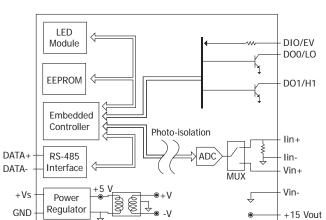
Model	I-7014D	
Communication		
Interface	RS-485	
RS-485 Bias Resistor	No (An RS-485 master is required to provide the bias.)	
Format	N, 8, 1	
Baud Rate	1200 to 115200 bps	
Protocol	DCON	
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)	
LED Indicators/Display		
System LED Indicator	Yes, 1 as Power/Communication Indicator	
I/O LED Indicators	-	
7-Segment LED Display	Yes	
Isolation		
Intra-module Isolation, Field-to-Logic	3000 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±2 kV Contact for each Terminal	
EFT (IEC 61000-4-4)	±4 kV to Power Line	
Surge (IEC 61000-4-5)	±0.5 kV for Power Line	
Power		
Reverse Polarity Protection	Yes	
Input Range	+10 ~ +30 VDC	
Consumption	1.9 W	
Mechanical	Mechanical	
Dimensions (L x W x H)	123 mm x 72 mm x 35 mm	
Installation	DIN-Rail or Wall Mounting	
Environment		
Operating Temperature	-25 to +75°C	
Storage Temperature	-40 to +85°C	
Humidity	10 to 95% RH, Non-condensing	

■ I/O Specifications -

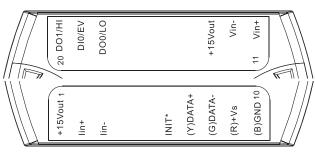
Model		I-7014D
Analog Input	t	
Channels		1
Wiring		Differential
Sensor Type		±150 mV, ±500 mV, ±1V, ±5 V, ±10 V, ±20 mA
Resolution		16-bit
Accuracy		±0.05%
Sampling Rate	!	10 Hz
Input	Voltage	30 kΩ
Impedance	Current	125 Ω
Isolated Loop	Power	±15 VDC, 30 mA
Overvoltage Pi	rotection	±15 VDC
Open Wire De	tection	-
Digital Input	t	
Channels		1
Contact Sink/Source (NPN/PNP)		Dry
		Source
ON Voltage Le	vel	Close to GND
OFF Voltage Le	evel	Open
Counter		Yes, 50 Hz, 16-bit
Input Impedar	nce	3 kΩ
Overvoltage Pi	rotection	±30 VDC
Digital Output Channels Type Sink/Source (NPN/PNP) Load Voltage Max. Load Current		
		2
		Open Collector
		Sink
		+3.5 ~ +50 V _{DC}
		30 mA/Channel
Power-on Valu	е	Yes
Safe Value		Yes



■ 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	□⊕ DIO/EV (B)GND

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

Ordering Information .

1-channe Transmitter Input with 7-segment LED Display using the DCON and Modbus Protocols (Blue Cover) (RoHS)

Accessories -

tM-7520U CR	RS-232 to RS-485 Converter (RoHS)
tM-7561 CR	USB to RS-485 Converter (RoHS)
tM-SG4 CR	RS-485 Bias and Termination Resistor Module (RoHS)

3	I-7514U CR	4-channel RS-485 Hub (RoHS)
	SG-770 CR	7-channel Differential or 14-channel Single-ended Surge Protector (RoHS)
100 At 10	SG-3000 Series	Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Input Transformers