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Find the *ICP-CON / ICP-DAS I-7024* at our website: *Click HERE*



I-7024/I-7024R M-7024/M-7024R

4-channel Analog Output Module

Features

- 4-channel Analog Output
- 5-channel Digital Input for I-7024R/M-7024R
- Software Selectable Current or Voltage Output
- 14-bit Resolution
- Power-on Value Setting
- Safe Value Setting
- 3000 VDC Intra-Module Isolation
- Programmable Output Slope
- Dual Watchdog
- Wide Operating Temperature Range: -25 ~ +75°C

Introduction

The I-7024 is a 14-bit 4-channel analog output module that provides current and voltage outputs. There are options for power-on values and safe values. It features 3000 VDC intra-module isolation.

The I-7024R is the same as the I-7024 and provides additional 5-channel digital inputs and 4 KV ESD protection on each terminal.

The M-7024/M-7024R support Modbus RTU and DCON protocols and can be configured via software. Their hardware specifications are the same as those of the I-7024/I-7024R.

Applications

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.

System Specifications

Models	I-7024	M-7024	I-7024R	M-7024R
Communication				
Interface	RS-485			
Format	(N, 8, 1) (N, 8, 2) (E, 8, 1) (O, 8, 1)			
Baud Rate	1200 ~ 115200 bps			
Protocol	DCON	Modbus RTU, DCON	DCON	Modbus RTU, DCON
Dual Watchdog	Yes, Module (1.6 Seconds), Communication (Programmable)			
LED Indicator/Display				
System LED Indicator	Yes, 1 LED as Power/Communication Indicator			
I/O LED Indicator	-			
7-Segment LED Display	-			
Isolation				
Intra-Module Isolation, Field-to-Logic	3000 VDC			
EMS Protection				
ESD (IEC 61000-4-2)	+/-2 kV		+/-4 kV	
EFT (IEC 61000-4-4)	-		+/-4 kV	
RS (IEC 61000-4-3)	-		5 V/m, 80 MHz ~ 1GHz	
Power				
Reverse Polarity Protection	Yes			
Input Range	10 ~ 30 VDC			
Consumption	2.4 W		3.2 W	
Mechanical				
Dimensions (W x L x H)	72 mm x 123 mm x 35 mm			
Installation	DIN-Rail or Wall Mounting			
Environment				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-40 ~ +85°C			
Humidity	10 ~ 90% RH, Non-Condensing			

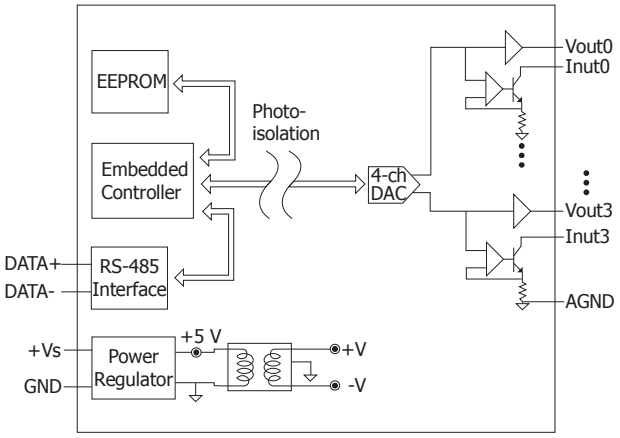
I/O Specifications

Models		I-7024	M-7024	I-7024R	M-7024R
Analog Output					
Channels		4			
Range		0 ~ 5 V, +/- 5 V, 0 ~ 10 V, +/- 10 V, 0 ~ 20 mA, 4 ~ 20 mA			
Resolution		14-bit			
Accuracy		0.1%			
DA Output Response Time		10 ms			
Open Wire Detection (for current only)		-			
Channel to Channel Isolation		-			
Power-on Value		Yes			
Safe Value		Yes			
Digital Input					
Channels		-		5	
Input Type		-		Dry Contact (Source)	
Contact Level	On Voltage Level	-		Close to GND	
	Off Voltage Level	-		Open	
Counters	Max. Count	-		65535 (16-bit)	
	Max. Input Frequency	-		50 Hz	
	Min. Pulse Width	-		10 ms	

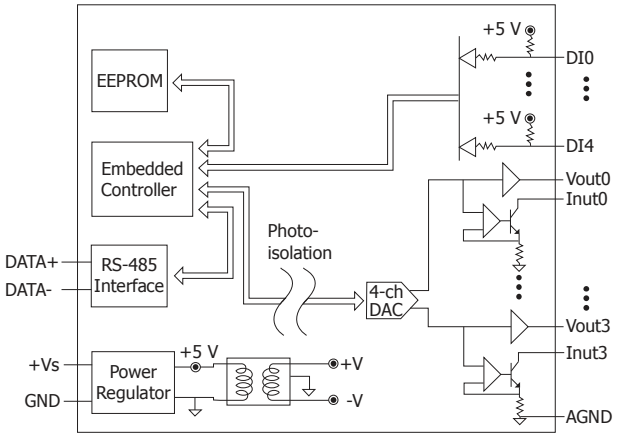
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Internal I/O Structure

I-7024/M-7024

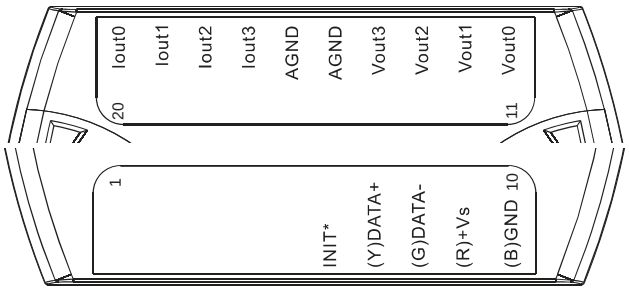


I-7024R/M-7024R

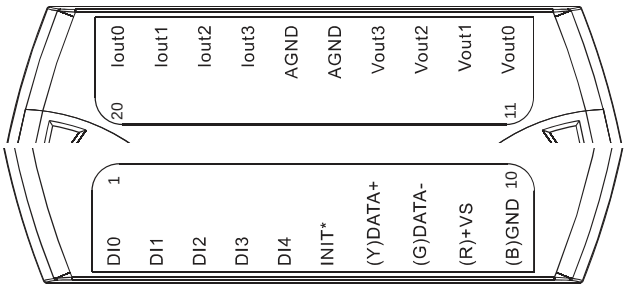


Pin Assignments

I-7024/M-7024

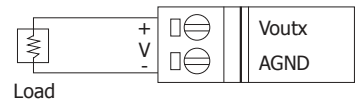


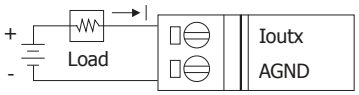
I-7024R/M-7024R



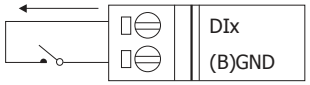
Wire Connections

Analog Output Wire Connection





Dry Contact Wire Connection for I-7024R and M-7024R



Ordering Information

I-7024 CR	4-channel Analog Output Module with DCON Protocol (Blue Cover) (RoHS)
I-7024-G CR	4-channel Analog Output Module with DCON Protocol (Gray Cover) (RoHS)
I-7024R-G CR	4-channel Analog Output and 5-channel DI Module with DCON Protocol(Gray Cover) (RoHS)
M-7024-G CR	4-channel Analog Output Module with DCON and Modbus Protocol (Gray Cover) (RoHS)
M-7024R-G CR	4-channel Analog Output and 5-channel DI Module with DCON and Modbus Protocol (Gray 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 Pull-high/Pull-low and Termination Resistor Module (RoHS)	
			 I-7514U CR — 4-channel RS-485 Hub (RoHS)
			 SG-770 CR — 7 channel differential or 14 channel single-ended surge protector (RoHS)
			 SG-3000 series — Signal Conditioning Modules for Thermocouple, RTD, DC Voltage, DC Current and Power Inputs

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