

CONPROSYS Robust I/O Series RS-485 I/O Module 8-ch Isolated (Wet) DI CPSR-M7052DG



* Specifications, color and design of the products are subject to change without notice.

Features

8 Sink- or Source-type Digital Inputs
(6 Independent and 2 Common Ground Channels)
High Intra-module Isolation Voltage
All Channels Can be Used as 16-bit Counters
Built-in Dual Watchdog

Specifications

System specification

Item	Description
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Display	
Type	I/O LED Indicator
Isolation	
Intra-module Isolation	5000 Vrms
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for Power Line
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal ±8 kV Air for Random Point
LED Indicators	
Status	1 x Power and Communication 8 x Digital Input
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	Modbus RTU
Power	
Reverse Polarity Protection	Yes
Input Range	+10 - +30 VDC
Consumption	0.6 W
Mechanical	
Dimensions (mm)	72(W) x 122(L) x 34 (H)
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	-25 - +75 °C
Storage Temperature	-40 - +85 °C
Humidity	10 - 95% RH, Non-condensing
Standard	VCCI Class A, FCC Class A CE Marking (EMC Directive Class A, RoHS Directive), UKCA

The product offers 6 fully independent channels and 2 common ground channels for digital input.

The differential inputs feature channel-to-channel Photocoupler isolation. In addition, you can choose either sink- or source-type input via wire connections.

All channels are able to be used as 16-bit counters.

The product has 8 LED indicators for DI channel status monitoring.

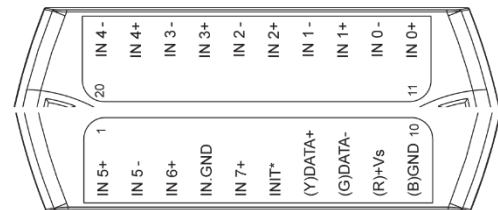
4 kV ESD protection and 5000 Vrms intra-module isolation are standard.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of July, 2026.

I/O specification

Item	Description
Digital Input/Counter	
Channels	8
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink/Source
ON Voltage Level	+4 - +30 VDC
OFF Voltage Level	+1 VDC Max
Max. Counts	65535 (16-bit)
Frequency	100 Hz
Min. Pulse Width	5 ms
Input Impedance	3 kΩ
Overvoltage Protection	+35 VDC
Channel-to-Channel Isolation	±2 kV for differential only

Pin Assignments



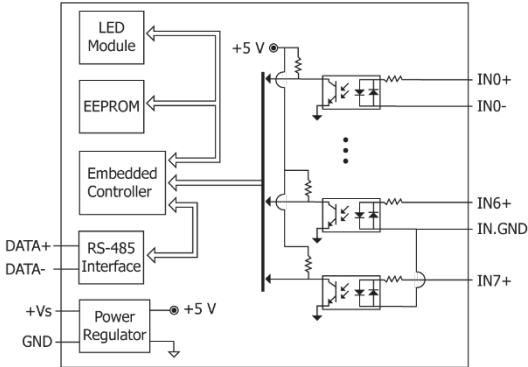
Support Software

Name	Contents	How to get
DAQ-LIBMB-WIN	Modbus communication library for Windows	Download from the CONTEC website
DAQ-LIBMB-LNX	Modbus communication library for Linux	Download from the CONTEC website
CONPROSYS Robust I/O Utility	Users can configure the communication parameters and I/O settings for each module by using CONPROSYS Robust I/O Utility.	Download from the CONTEC website
Modbus Master Tool	It provides a friendly interface for quick configuring and communicating our Modbus slave devices.	Download from the CONTEC website

Download the files from the following URL.

<https://www.contec.com/download/>

Internal I/O Structure



Wire Connections

Input Type	ON State Readback as 1
(Sink) Channel 0 - 5	Wet Contact +4V - +30VDC
	OFF State Readback as 0
	Wet Contact Open or +1VDC Max.

Input Type	ON State Readback as 1
(Source) Channel 0 - 5	Wet Contact +4V - +30VDC
	OFF State Readback as 0
	Wet Contact Open or +1VDC Max.

Input Type	ON State Readback as 1
(Sink) Channel 6 - 7	Wet Contact +4V - +30VDC
	OFF State Readback as 0
	Wet Contact Open or +1VDC Max.