

CONPROSYS Robust I/O Series  
Modbus-RTU RS-485 Remote I/O  
Power Relay Output 4ch / 4ch Digital Input (Counter)  
**CPSR-M7060PDG**



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

## Features

4 Sink- or Source-type Digital Inputs  
2 Form A and 2 Form C Power Relay Output  
Digital Input Channels Can be Used as 16-bit Counters  
Configurable Power-on Value and Safe Value Settings  
Built-in Dual Watchdog

The product provides 4 digital input channels, 2 Form A and 2 Form C power relay output channels. All digital input channels can be used as 16-bit counters. In addition, the digital input channels can be selected either as sink- or source-type via wire connections. The product provide eight LED indicators that can be used to monitor the status of the digital input and relay output. There are also options for configuring power-on and safe values. 4kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise protection capabilities in industrial environments.

The product is the perfect solution for high power applications.

- \* 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, 2025.

## Specifications

### System specification

Model	Description
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Display	
Type	I/O LED Indicator
Isolation	
Intra-module Isolation	3750 VDC
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
Surge (IEC 61000-4-5)	±3 kV for Power Line
LED Indicators	
Status	1 x Power and Communication 8 x Relay Output
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	1.8 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

## I/O specification

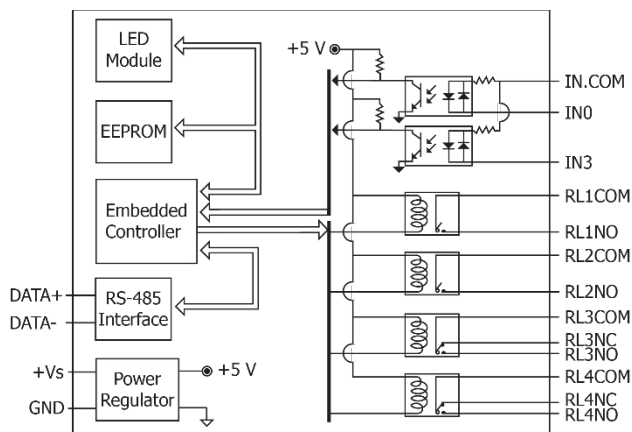
Item	Description
<b>Relay Output</b>	
Channels	4 (2 x Form A, 2 x Form C)
Type	Power Relay
Contact Material	Silver Tin Alloy
Contact Rating	Form A: 16 A @ 250 VAC 10 A @ 30 VDC Form C: NO: 10 A @ 250 VAC NC: 6 A @ 250 VAC
Operate Time	10 ms
Release Time	5 ms
Electrical Endurance	1 x 10 <sup>7</sup> ops.
Mechanical Endurance	1 x 10 <sup>5</sup> ops.
Power on Value	Programmable
Safe Value	Programmable
<b>Digital Input/Counter</b>	
Channels	4
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink/Source
ON Voltage Level	+4 VDC Max.
OFF Voltage Level	+10 ~ +50 VDC
Max. Counts	65535 (16-bit)
Frequency	100 Hz
Min. Pulse Width	5 ms
Input Impedance	10 kΩ
Overvoltage Protection	±70 VDC

## Wire Connections

DI/Counter	ON State Readback as 1	OFF State Readback as 0
Sink	<p>OPEN or &lt;4 VDC</p>	<p>+10 - +50 VDC</p>
Source	<p>OPEN or &lt;4 VDC</p>	<p>+10 - +50 VDC</p>

Relay Output	ON State Readback as 1	OFF State Readback as 0
RL1 and RL2		
RL3 and RL4		

## Internal I/O Structure



## Pin Assignments

