

CONPROSYS Robust I/O Series
Modbus-RTU RS-485 Remote I/O
Photo MOS Relay Output 7ch
CPSR-M7066PDG



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

Features

PhotoMOS Relay: 1 A @ 80 V (AC peck or DC)
7 PhotoMOS Relay Outputs
Arcing, No Bounce, and No Switching Noise
Photocoupler Isolation
Configurable Power-on Value and Safe Value Settings
Built-in Dual Watchdog

The product feature seven Form A PhotoMOS relay output channels. In comparison to electromechanical relays, the PhotoMOS relays provide a faster response time, greater electrical endurance, higher vibration and shock resistance. There are also no arcing, no bounce, and no switching noise for the PhotoMOS relay. There are options for configuring power-on and safe digital output values, and the product include seven LED indicators that are used to display channel status as well as providing 4 kV.

- * 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 June, 2025.

Specifications

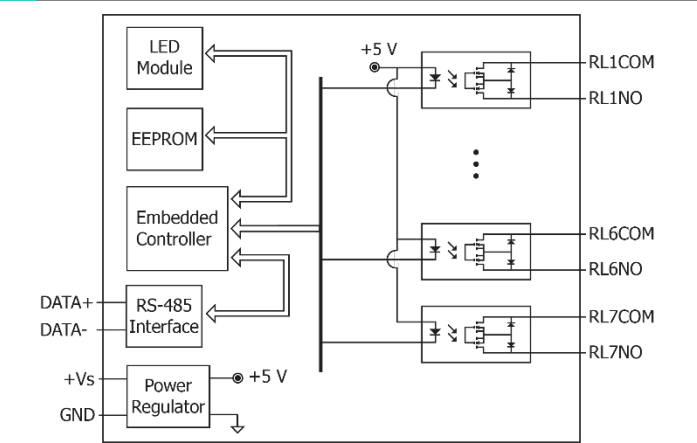
System specification

Model	Description
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Display	
Type	I/O LED Indicator
Isolation	
Intra-module Isolation	2000 VDC
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for 8 Relay and Power Line ±2 kV for RS-485 Port 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 7 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	0.9 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

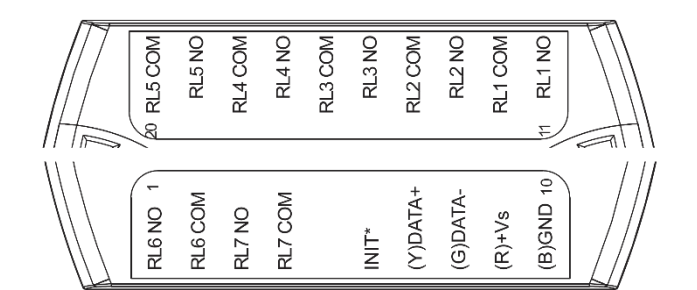
I/O specification

Item	Description
Relay Output	
Channels	7 (Form A)
Type	PhotoMOS Relay
Contact Rating	AC peck or DC: 80V @ 1 A 0.24A @ 220 VDC 0.25A @ 250 VAC
Leakage Current	1 uA
Operate Time	5 ms Max.
Release Time	0.2 ms Max.
Electrical Endurance	Long Life, No Arcing, No Bounce, No Switching Noise
Power on Value	Programmable
Safe Value	Programmable

Internal I/O Structure



Pin Assignments



Wire Connections

Relay Output	ON State Readback as 1
Relay Output	
	OFF State Readback as 0