CONPROSYS Robust I/O Series Modbus-TCP Ethernet Remote I/O Power Relay Output 6ch / 6ch Digital Input (Counter)

CPSR-ET7060



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

Features

Built-in Web Server
Web HMI
Support for both Modbus TCP and Modbus UDP Protocols
Communication Access Control
Dual Watchdog
I/O Pair Connection
Built-in I/O
DI/Counter: 6 Channels
Power Relay: 6 Channels

The product provides 6 wet contact digital input channels and 6 form A electromechanical relays. It features optical isolation for 3000 VDC of transient overvoltage protection and doesn't have channel-to-channel isolation. Each input channel can be used as a 32-bit counter. The power-on value and safe value of relay are programmable.

Note: When inductive loads are connected to the relays, a large counter electromotive force may occur when the relay actuates because of the energy stored in the load. These flyback voltages can severely damage the relay contacts and greatly shorten the relay life. Limit these flyback voltages at your inductive load by installing a flyback diode for DC loads or a metal oxide varistor for AC loads.

- * 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

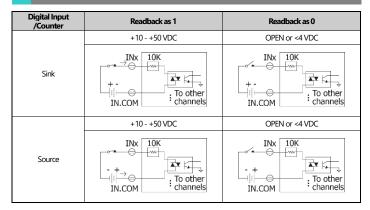
Model	Description	
Software		
Built-in Web Server	Yes	
CPU Module		
Watchdog Timer	Module, Communication (Programmable)	
2-Way Isolation		
Ethernet	1500 VDC	
I/O	3000 VDC	
EMS Protection		
EFT (IEC 61000-4-4)	±2 kV for Power Line	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal ±8 kV Air for Random Point	
Surge (IEC 61000-4-5)	±0.5 kV for Power Line	
LED Indicators		
Status	Run, Ethernet	
Ethemet		
Ports	1 x RJ-45, 10/100 Base-TX	
Access Control	ID, Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP	
Power		
Reverse Polarity Protection	Yes	
Consumption	2.9 W (Max.)	
Powered from Terminal Block	+10 to +30 VDC	
Mechanical		
Dimensions (mm)	72(W) x 123(L) x 35 (H)	
Installation	DIN-Rail Mounting	
Environment		
Operating Temperature	-25 - +75 °C	
Storage Temperature	-30 - +80 °C	
Humidity	10 - 95% RH, Non-condensing	
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive UKCA	

CPSR-ET7060 1

I/O specification

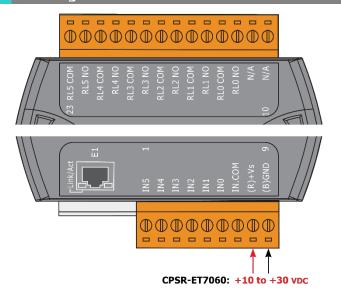
Item	Description	
Digital Input/Counter		
Channels	6	
Туре	Wet Contact	
Sink/Source (NPN/PNP)	Sink/Source	
ON Voltage Level	+10 to +50 VDC	
OFF Voltage Level	+4 VDC (Max.)	
Max. Counts	4,294,967,295 (32-bit)	
Frequency	500 Hz	
Min. Pulse Width	1 ms	
Input Impedance	10 kΩ	
Overvoltage Protection	+70 VDC	
Relay Output		
Channels	6	
Туре	Power Relay, Form A (SPST N.O.)	
Contact Rating	5 A @ 250 VAC/24 VDC (Resistive Load)	
Operate Time	10 ms (Max.)	
Release Time	5 ms (Max.)	
Electrical Endurance	10 ⁵ ops.	
Mechanical Endurance	2×10^7 ops.	
Power on Value	Programmable	
Safe Value	Programmable	

Wire Connections



Power	ON State	OFF State
Relay	Readback as 1	Readback as 0
Relay Output	RLx.COM Relay Close AC/DC LOAD To ther channels	RLx.COM Relay Open AC/DC Rlx.NO To other channels

Pin Assignments



CPSR-ET7060 ■ 2