

CONPROSYS Robust I/O Series
Modbus-TCP Ethernet Remote I/O
Analog Input 16bit 8ch / 4ch DO

CPSR-ET7017

(Daisy-Chain) Analog Input 16bit 8ch / 4ch DO

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* 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
2-port Ethernet Switch (LAN Bypass) for Daisy-Chain Wiring (CPSR-ET7217 only)
Dual Watchdog
I/O Pair Connection
Built-in I/O
AI: 8 Channels with 240 Vrms Overvoltage Protection
DO: 4 Channels

The product is a module with 8-channel differential analog inputs and 4-channel digital outputs.

It provides programmable input range on all analog channels (± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, 0 to 20 mA and 4 to 20mA) and digital output can be set alarm output with Short-circuit protection and overload protection.

Each analog channel is allowed to configure an individual range and has 240 Vrms high overvoltage protection.

Each analog input can be programmed to accept voltage or current as input depending upon the position of the corresponding jumper.

The sampling rate of product is changeable; there are fast mode and normal mode for your consideration.

The product is also qualified for 4kV ESD protection as well as 2500 VDC intra-module isolation.

- * 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

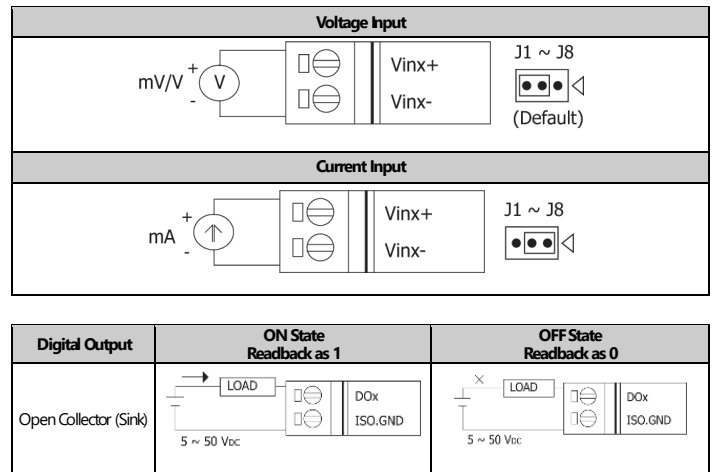
System specification

Item	CPSR-ET7017	CPSR-ET7217
Software		
Built-in Web Server	Yes	
CPU Module		
Watchdog Timer	Module, Communication (Programmable)	
2-Way Isolation		
Ethernet	1500 VDC	
I/O	2500 VDC	
EMS Protection		
EFT (IEC 61000-4-4)	±4 kV for Power Line	±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	±2 kV for Power Line
LED Indicators		
Status	Run, Ethernet	Run, Ethernet, I/O
Ethernet		
Ports	1 x RJ-45, 10/100 BASE-TX	2 x RJ-45, 10/100 BASE-TX, Switch Ports
LAN bypass	-	Yes
Access Control	ID, Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP	
Power		
Reverse Polarity Protection	Yes	
Consumption	2.8 W (Max)	4.2 W (Max)
Powered from Terminal Block	+10 to +30 VDC	+12 to +48 VDC
Mechanical		
Dimensions (mm)	72(W) x 123(L) x 35(H)	76(W) x 120(L) x 38(H)
Installation	DIN-Rail mounting	
Environment		
Operating Temperature	-25 - +75 °C	
Storage Temperature	-30 - +80 °C	
Humidity	10 - 90% RH, Non-condensing	
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA	

I/O specification

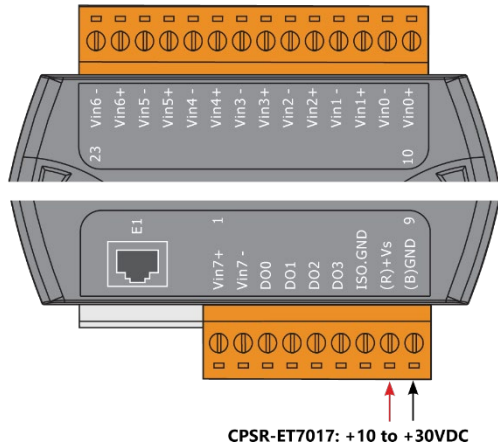
Item	Description
Analog Input	
Channels	8 (Differential)
Type	Voltage, Current
Range	± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, 0 to 20 mA, 4 to 20 mA (Jumper Selectable)
Resolution	16-bit
Accuracy	Normal Mode $\pm 0.1\%$ Fast Mode $\pm 0.5\%$ or better
Sampling Rate	Normal Mode 10 Hz (total channels) Fast Mode 50 Hz (total channels)
Input Impedance	Voltage 2 M Ω Current 125 Ω
Common Voltage Protection	± 200 VDC
Overvoltage Protection	240 Vrms
Overcurrent Protection	50 mA at 110 VDC (Max.)
Individual Channel Configuration	Yes
Open Wire Detection	For 4 to 20 mA only
Virtual Channel to Channel Isolation	± 400 VDC
Digital Output	
Channels	4
Type	Isolated Open Collector
Sink/Source (NPN/PNP)	Sink
Max. Load Current	700 mA/channel
Load Voltage	+5 to +50 VDC
Overvoltage Protection	+60 VDC
Overload Protection	1.4 A
Short-circuit Protection	Yes
Power on Value	Programmable
Safe Value	Programmable

Wire Connections



Pin Assignments

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