

CONPROSYS Robust I/O Series
 Modbus-TCP Ethernet Remote I/O
 Analog Input 16bit 6ch / Analog Output 12bit 2ch /
 2ch DI (Counter) / 2ch DO
CPSR-ET7026



* 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
 AI: 6 Channels with 240 Vrms Overvoltage Protection
 AO: 2 Channels
 DI/Counter: 2 Channels
 DO: 2 Channels

The product is a multi-function module with 6-channel analog inputs, 2-channel analog outputs, 2-channel digital inputs and 2-channel digital outputs.

It provides various programmable analog inputs (± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, $0 \sim 20$ mA and $4 \sim 20$ mA), and analog outputs (± 5 V, ± 10 V, $0 \sim 20$ mA and $4 \sim 20$ mA).

Each analog input is allowed to configure a proper range with 240 Vrms high voltage protection.

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

- * 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

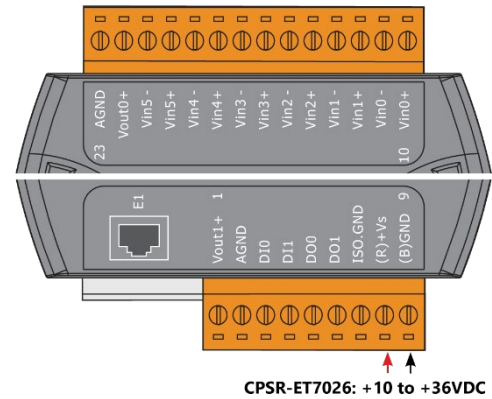
System specification

Item	Description
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
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
Ethernet	
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	3.6 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	$-25 \sim +75$ °C
Storage Temperature	$-30 \sim +80$ °C
Humidity	10 ~ 90% RH, Non-condensing
Standard	VCCI Class A, FCC Class A, CE Marking (RoHS Directive), UKCA

I/O specification

Item	Description
Analog Input	
Channels	6 (Differential)
Type	Voltage, Current
Range	±500 mV, ±1 V, ±5 V, ±10 V 0 to 20 mA, ±20 mA, 4 to 20 mA (Jumper Selectable)
Resolution	16-bit
Accuracy	Normal Mode: ±0.1% Fast Mode: ±0.5% or better
Sampling Rate	Normal Mode: 10 Hz (total channels) Fast Mode: 50 Hz (total channels)
Input Impedance	Voltage: 2 MΩ 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
Analog Output	
Channels	2
Type	Voltage, Current
Range	+0 to +5 VDC, ±5 VDC, +0 to +10 VDC, ±10 VDC, 0 to 20 mA, 4 to 20 mA (Jumper Selectable)
Resolution	12-bit
Accuracy	±0.1% of FSR
Open Wire Detection	For 4 to 20 mA only
Voltage Output Capability	10 V @ 20 mA
Current Load Resistance	500 Ω
Individual Channel Configuration	Yes
Power on Value	Programmable
Safe Value	Programmable
Digital Input/Counter	
Channels	2
Type	Dry Contact, Wet Contact
ON Voltage Level	Dry: Close to GND Wet: +1 VDC (Max.)
OFF Voltage Level	Dry: Open Wet: +3.5 to +30 VDC
Max. Counts	4,294,967,295 (32-bit)
Frequency	100 Hz
Min. Pulse Width	5 ms
Effective Distance	500m (Max.)
Overvoltage Protection	+30 VDC
Digital Output	
Channels	2
Type	Isolated Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+5 to +50 VDC
Load Current	700 mA/channel
Overvoltage Protection	+60 VDC
Overload Protection	1.4 A
Short-circuit Protection	Yes
Power on Value	Programmable
Safe Value	Programmable

Pin Assignments



Wire Connections

Analog Input		
Voltage Input (Default)		
	Vinx+ Vinx-	J1 ~ J6
Current Input		
	Vinx+ Vinx-	J1 ~ J6
Analog Output		
Voltage Output (Default)		
	Old Version	PCB V1.20 and later
		J7 ~ J8
Current Output		
	Old Version	PCB V1.20 and later
		J7 ~ J8
Digital Input/Counter		
	ON State Readback as 1	OFF State Readback as 0
Dry Contact		
	Wet Contact	
Wet Contact		
Digital Output		
	ON State Readback as 1	OFF State Readback as 0
Open Collector (Sink)		