

CONPROSYS Robust I/O Series  
Modbus-TCP Ethernet Remote I/O  
Digital Input (Counter) 8ch / 8ch Digital Output (Source)  
**CPSR-ET7052**



\* 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: 8 Channels  
DO: 8 Channels

The product provides 8 wet contact digital input channels and 8 source-type digital output channels. It features optical isolation for 2500 VDC of transient overvoltage protection but doesn't provide channel-to-channel isolation. Each input channel can be used as a 32-bit counter and each output channel can drive a 650 mA load. The power-on value and safe value of the digital output channel are programmable. It can safely be used in applications where hazardous voltages are present.

- \* 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

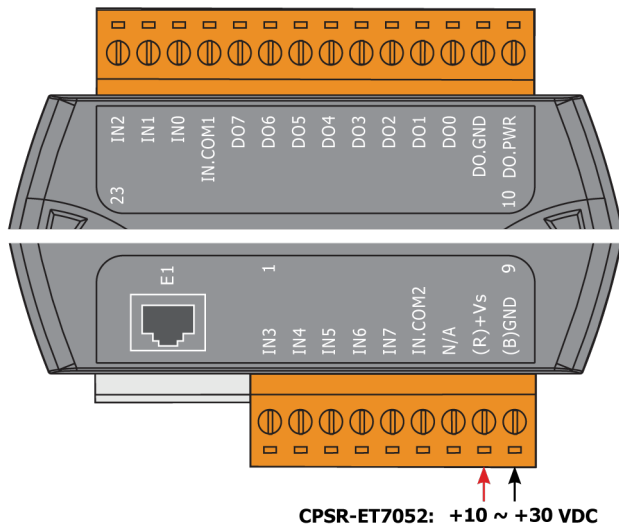
### System specification

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	2.5 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 - 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
<b>Digital Input/Counter</b>	
Channels	8
Type	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 k $\Omega$
Overvoltage Protection	$\pm 70$ VDC
<b>Digital Output</b>	
Channels	8
Type	Isolated Open Collector
Sink/Source (NPN/PNP)	Source
Load Voltage	+10 to +40 VDC
Load Current	650 mA/channel at 25°C
Overvoltage Protection	+47 VDC
Short-circuit Protection	Yes
Power on Value	Programmable
Safe Value	Programmable

## Pin Assignments



## Wire Connections

Digital Input/Counter	Readback as 1
Sink	<b>+10 to +50 VDC</b>
	<b>Readback as 0</b>
	<b>OPEN or &lt;4 VDC</b>

Digital Input/Counter	Readback as 1
Source	<b>+10 to +50 VDC</b>
	<b>Readback as 0</b>
	<b>OPEN or &lt;4 VDC</b>

Digital Output	ON State Readback as 1
Source	
	<b>OFF State Readback as 0</b>