

CONPROSYS Robust I/O Series
Modbus-TCP Ethernet Remote I/O
Digital Input (Counter) (Dry Contact) 16ch
CPSR-ET7053



* 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: 16 Channels

The product provides 16 dry contact digital input channels. Each input channel can be used as a 32-bit counter. It features optical isolation for 3750 Vrms of transient overvoltage protection but doesn't provide channel-to-channel isolation. 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

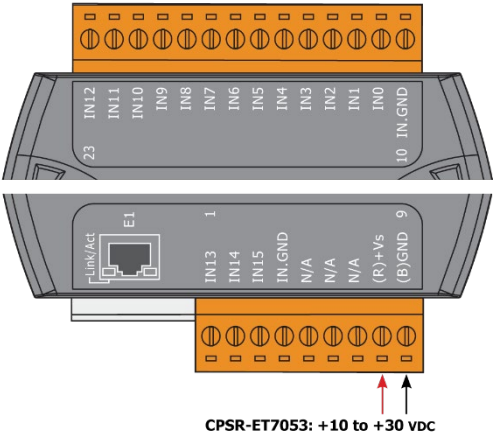
System specification

| 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 |
| 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 | 2.7 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 |
|------------------------------|------------------------|
| Digital Input/Counter | |
| Channels | 16 |
| Type | Dry Contact |
| Sink/Source (NPN/PNP) | Source |
| ON Voltage Level | Close to GND |
| OFF Voltage Level | Open |
| Max. Counts | 4,294,967,295 (32-bit) |
| Frequency | 500 Hz |
| Min. Pulse Width | 1 ms |
| Effective Distance | 500m (Max.) |

Pin Assignments



Wire Connections

| Digital Input /Counter | ON State Readback as 1 |
|------------------------|------------------------|
| Dry Contact | |
| | |