

CONPROSYS Robust I/O Series

Modbus-TCP Ethernet Remote I/O RTD 7ch

CPSR-ET7015



* 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
 - Built-in I/O
 - RTD Input: 7 Channels

The product is specifically designed for long-distance RTD measurement. It features automatic compensation for three-wire RTD regardless of the length of wires and provides open-wire detection for RTD measurement. The product offers 7 channels, each of which could be connected with different kinds of RTD (Pt100, Pt1000, Ni120, Cu100, Cu1000). Also, the product is fully RoHS-compliant and has qualification for 4 kV 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.

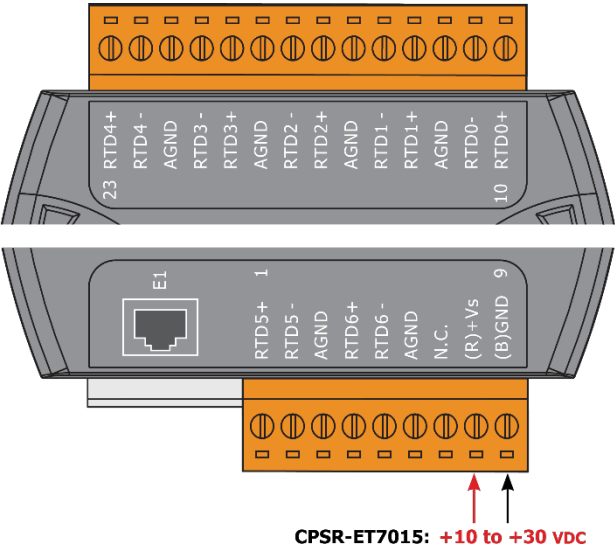
Specifications

Model	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	2.2 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
Analog Input	
Channels	7 (Differential)
Type	RTD (2-wire, 3-wire)
Sensor Type	Pt100, Pt1000, Ni120, Cu100, Cu1000
Resolution	16-bit
Accuracy	±0.05%
Sampling Rate	12 Hz (total channels)
Input Impedance	>1M Ω
Overvoltage Protection	+120 VDC
Individual Channel Configuration	Yes
3-wire RTD Lead Resistance Elimination	Yes
Open Wire Detection	Yes

Pin Assignments



Wire Connections

Open Collector (Sink)	CH0, 1, 2, 5 and 6	CH3 and CH4
2-wire of RTD		
3-wire of RTD		