

CONPROSYS Robust I/O Series
Modbus-RTU RS-485 Remote I/O
6ch 16bit RTD Input with Open Wire Detection
CPSR-M7015G



* Specifications, color and design of the products are subject to change without notice.

Features

- 6 RTD Inputs
- Lead Resistance Elimination for 3-wire Connection
- High Resolution: 16-bit
- Open Wire Detection
- Built-in Dual Watchdog

The product is a series of 6-channel RTD input modules that are used for measuring temperatures using RTD sensors and each channel can be connected to a different type of sensor. The product is fully RoHS-compliant and features 4 kV ESD protection as well as 3000 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 July, 2025.

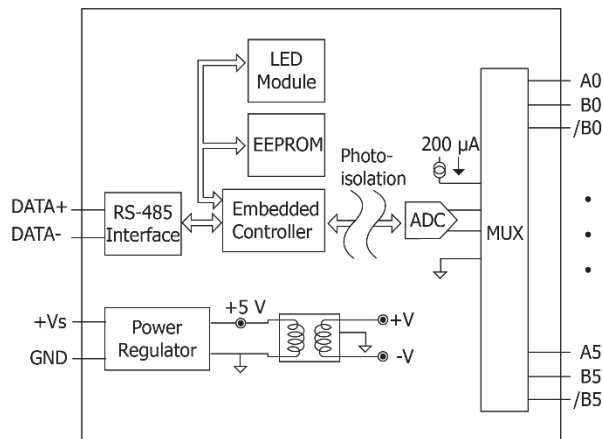
Specifications

System specification	
Model	Description
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Isolation	
Intra-module Isolation	3000 VDC
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for Power Line
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal
LED Indicators	
Status	1 x Power and Communication
Analog Input	
Channels	6
Type	RTD
Sensor Type	Pt100, Pt1000, Ni120, Cu50, Cu100, Cu1000
Resolution	16-bit
Accuracy	±0.05% of FSR
Sampling Rate	12 Hz (Total)
Overvoltage Protection	120 VDC
Individual Channel Configuration	Yes
Open Wire Detection	Yes
COM Ports	
Ports	1 x RS-485
Baud Rate	1200 - 115200 bps
Data Format	(N, 8, 1), (N, 8, 2), (E, 8, 1), (O, 8, 1)
Protocol	Modbus RTU
Power	
Reverse Polarity Protection	Yes
Input Range	+10 - +30 VDC
Consumption	1.1W
Mechanical	
Dimensions (mm)	72(W) x 122(L) x 34 (H)
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	-25 - +75 °C
Storage Temperature	-40 - +85 °C
Humidity	10 - 95% RH, Non-condensing
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA

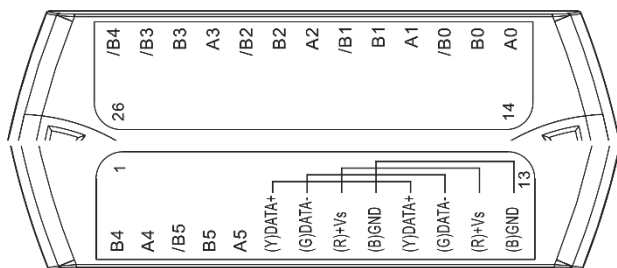
Measuring temperature range

Type Code	RTD Type	Temperature Range
20	Platinum 100, $\alpha=0.00385$	-100 to +100°C
21	Platinum 100, $\alpha=0.00385$	0 to +100°C
22	Platinum 100, $\alpha=0.00385$	0 to +200°C
23	Platinum 100, $\alpha=0.00385$	0 to +600°C
24	Platinum 100, $\alpha=0.003916$	-100 to +100°C
25	Platinum 100, $\alpha=0.003916$	0 to +100°C
26	Platinum 100, $\alpha=0.003916$	0 to +200°C
27	Platinum 100, $\alpha=0.003916$	0 to +600°C
28	Nickel 120	-80 to +100°C
29	Nickel 120	0 to +100°C
2A	Platinum 1000, $\alpha=0.00385$	-200 to +600°C
2B	Cu 100 at 0°C, $\alpha=0.00421$	-20 to +150°C
2C	Cu 100 at 25°C, $\alpha=0.00427$	0 to +200°C
2D	Cu 1000 at 0°C, $\alpha=0.00421$	-20 to +150°C
2E	Platinum 100, $\alpha=0.00385$	-200 to +200°C
2F	Platinum 100, $\alpha=0.003916$	-200 to +200°C
80	Platinum 100, $\alpha=0.00385$	-200 to +600°C
81	Platinum 100, $\alpha=0.003916$	-200 to +600°C
82	Cu 50 at 0°C	-50 to +150°C
83	Nickel 100	-60 to +180°C
84	Nickel 120	-80°C ~ 150°C
85	Cu 100 @ 0°C, $\alpha=0.00428$	0°C ~ 150°C

Internal I/O Structure



Pin Assignments



Wire Connections

