

CONPROSYS Robust I/O Series RS-485 I/O Module 8-ch AI CPSR-M7017G



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

Features

8 Differential Analog Inputs
Voltage and Current Inputs
High Resolution: 16-bit
Open Wire Detection for 4 - 20 mA
Built-in Dual Watchdog

Support Software

Name	Contents	How to get
DAQ-LBMB-WIN	Modbus communication library for Windows	Download from the CONTEC website
DAQ-LBMB-LNX	Modbus communication library for Linux	Download from the CONTEC website
CONPROSYS Robust I/O Utility	Users can configure the communication parameters and I/O settings for each module by using CONPROSYS Robust I/O Utility.	Download from the CONTEC website
Modbus Master Tool	It provides a friendly interface for quick configuring and communicating our Modbus slave devices.	Download from the CONTEC website

Download the files from the following URL.
<https://www.contec.com/download/>

The product is analog input modules that provide either 8 differential input channels.

The input type includes both voltage and current, and all channels are available for the same input range.

An optional external 125 Ω resistor is required for current input.

The modules also feature 3000 VDC intra-module isolation, as well as ± 35 VDC overvoltage protection.

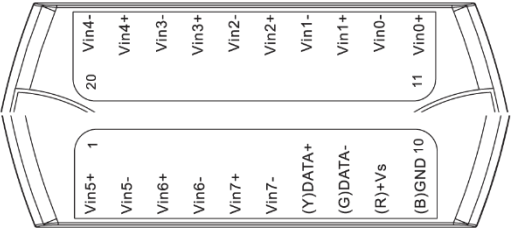
- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of July, 2026.

Specifications

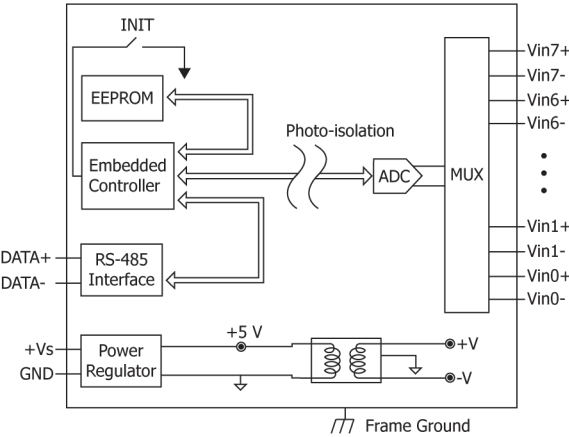
System specification

Item	Description
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Isolation	
Intra-module Isolation	3000 VDC
EMS Protection	
EFT (IEC 61000-4-4)	± 2 kV/Contact for Each Terminal
RS Immunity (IEC 61000-4-3)	± 4 kV for Power
LED Indicators	
Status	1 x Power and Communication
Analog Input	
Channels	8 Differential
Type	Voltage, Current
Range	± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, 0 - 20 mA, 4 ~ 20 mA (requires optional external 125 Ω resistor)
Resolution	16-bit
Accuracy	Normal Mode : $\pm 0.1\%$ of FSR
Sampling Rate	Normal Mode : 10 Hz
Input Impedance	20 M Ω
Common Voltage Protection	± 15 VDC
Overvoltage Protection	± 120 VDC
COM Ports	
Ports	1 x RS-485
Baud Rate	1200 - 115200 bps
Data Format	(N, 8, 1)
Protocol	Modbus RTU
Power	
Reverse Polarity Protection	Yes
Input Range	+10 - +30 VDC
Consumption	1.3 W
Mechanical	
Dimensions (mm)	72(W) x 122(L) x 34 (H)
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	-25 - +75 $^{\circ}$ C
Storage Temperature	-40 - +85 $^{\circ}$ C
Humidity	10 - 95% RH, Non-condensing
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA

Pin Assignments



Internal I/O Structure



Wire Connections

