

CONPROSYS Robust I/O Series
Modbus-RTU RS-485 Remote I/O
Analog Output 12bit 8ch
CPSR-M7028DG



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

Features

8 Analog Outputs
Source-type Current Output
12-bit Analog Output
Individual Channel Configuration
Open Wire Detection for Current Output
RF Immunity
Configurable Power-on Value and Safe Value Settings

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 a 12-bit, 8-channel analog output module. It provides a programmable output range on all analog output channels (0 - 5 V, +/-5 V, 0 - 10 V, +/-10 V, +4 - +20 mA or 0 - +20 mA). Each analog output channel can be configured for an individual range and the module also features per-channel open wire detection for the +4 - +20 mA output, together with 8 kV ESD Protection as well as 3000 VDC intra-module isolation. Options for configuring power-on and safe values are also included.

- * 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

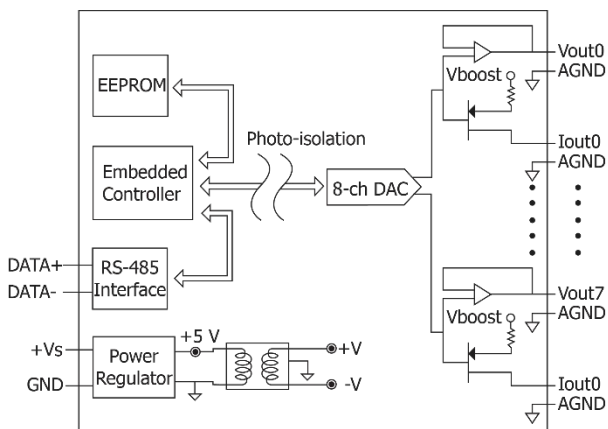
System specification

Model	Description
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Display	
Type	I/O LED Indicator
Isolation	
Intra-module Isolation	3000 VDC
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for 8 Power Line
ESD (IEC 61000-4-2)	±8 kV Contact for Each Terminal
RS Immunity (IEC 61000-4-3)	3 V/m, 80 MHz - 1 GHz
LED Indicators	
Status	1 x Power and Communication 8 x Analog Output
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	4.8 W
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

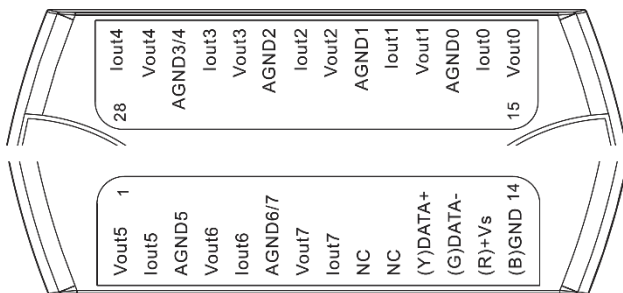
I/O specification

Item	Description
Analog Output	
Channels	8
Type	Voltage, Current
Current	0 ~ +5 VDC, ± 5 VDC 0 ~ +10 VDC, ± 10 VDC 0 ~ +20 mA, +4 ~ +20 mA
Resolution	12-bit
Accuracy	$\pm 0.1\%$ of FSR
DA Output Response Time	10 ms per channel
Programmable Output Slope	Voltage
	0.0625 ~ 512 V/Second
	Current
	0.125 ~ 1024 mA/Second
Current Output Wiring	Source
Open Wire Detection	For 4 ~ 20 mA Only
Voltage Output Capability	10 V @ 10 mA
Current Load Resistance	500 Ω
Power on Value	Programmable
Safe Value	Programmable

Internal I/O Structure



Pin Assignments



Wire Connections

