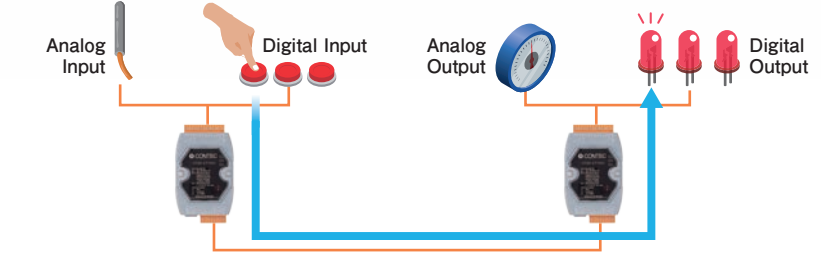


USEFUL CAPABILITY

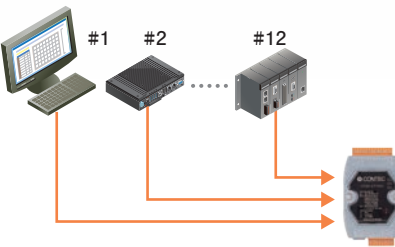
I/O pair connectivity function

Pairs of input modules and output modules can function as an alternative to signal cable connections. When the status of a digital input or analog input channel changes, the digital output channel or analog output channel settings are automatically updated accordingly. (CPSR-ET7000/ET7200 only)



Multi-host function

This function can be used as an I/O channel for up to 12 host controllers. (CPSR-ET7000/ET7200 only)



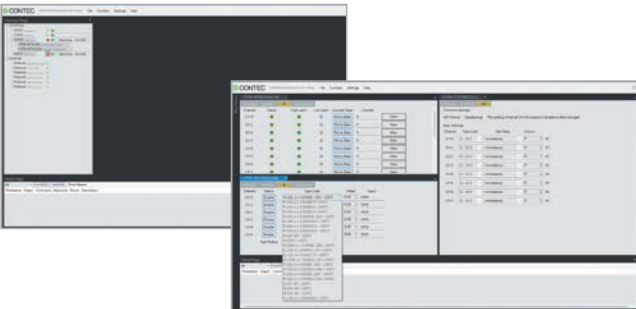
EASY INSTALLATION

Easy to use dedicated configuration utility software

Free download

CONPROSYS Robust I/O Utility for Windows
Supported OS : Windows 11/10

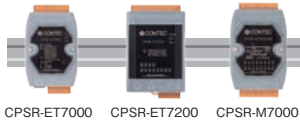
Easy to use dedicated utility software for Windows, CONPROSYS Robust I/O Utility is available (download from the website). The module connected to the host controller with RS-485/Ethernet is automatically detected. Communication parameters, sensors, input range and output range can be easily set from the GUI screen. Input channel monitoring and output channel test output can also be performed from the GUI screen.



Compact design

Compact design compatible with DIN rails

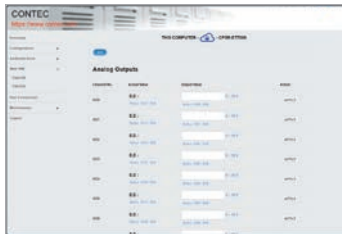
Compatible with 35 mm DIN rails. Compact design that can be installed on a control panel or in a small empty space in equipment.



CPSR-ET7000 : 123 × 72 × 35 mm / 4.84 × 2.83 × 1.38 in
CPSR-ET7200 : 120 × 76 × 38 mm / 4.72 × 2.99 × 1.50 in
CPSR-M7000 : 122 × 72 × 34 mm / 4.80 × 2.83 × 1.34 in

Web HMI function (built-in web server)

The module has a built-in web server that allows users to monitor and control the module from a remote location using a web browser. The Web HMI function allows you to create dynamic original web pages that monitor and control I/O points. No HTML or Java skills are required. (CPSR-ET7000/ET7200 only)



FAST DEVELOPMENT

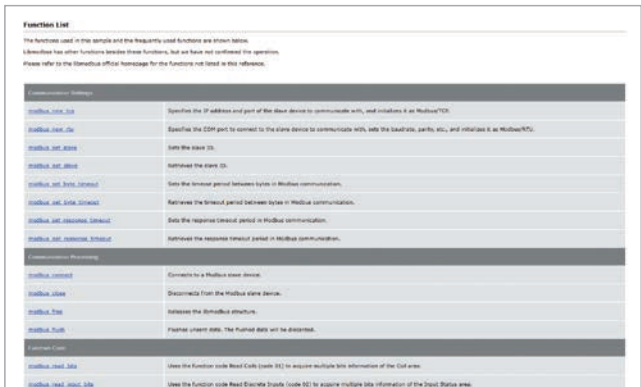
Easy-to-use Windows API / Linux API

Free download

DAQfast Modbus Communication Library for Windows/Linux

Provides the master function of Modbus communication with a Windows/Linux API, allowing you to control module communication from a Windows PC.

- Support for Modbus-TCP (Ethernet-based) and Modbus-RTU (RS-485 based)
- Easy to use packaging of the free software library libmodbus (LGPL2.1+ license)
- Includes easy-to-understand API function reference manual in online help
- Provides GUI sample programs for Visual C++/Visual C#/Visual Basic and CUI sample programs for Python



API function reference manual in online help

Related Products

CONPROSYS™ Family | Building IoT systems

Web HMI / SCADA
CONPROSYS HMI

New generation of web-based SCADA software



IoT Gateway
CONPROSYS

Transform Modbus/PLC/CNC data into IoT communications such as OPC UA



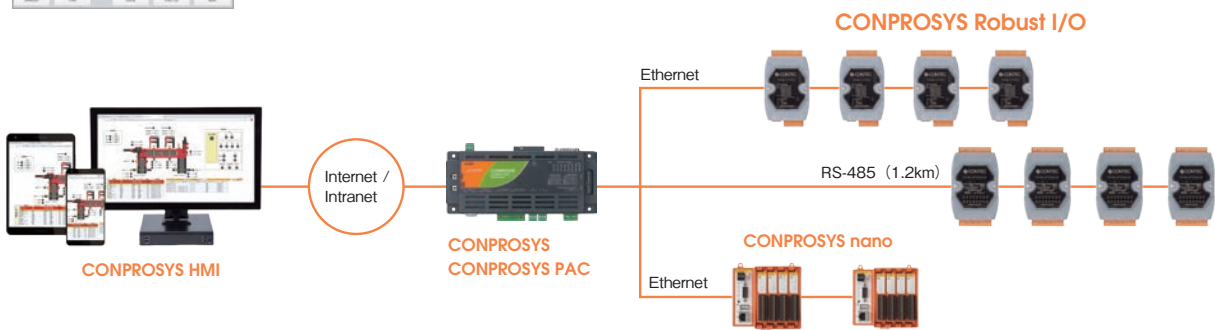
All-in-one PLC
CONPROSYS PAC

IEC61131-3 compliant CODESYS equipped controller



Modular Remote I/O
CONPROSYS nano

Modular remote I/O with customizable I/O channels



PC-HELPER | PC with extended RS-485 communication port *PCI card available

USB Unit

Isolation 1 port
RS-422A/485
COM-1PD2-USB
Windows Linux



Isolation 4 ports
RS-422A/485
COM-4PDHN-USB
Windows Linux



PCI Express Card

Isolation 1 port
COM-1PDH-LPE
Windows Linux



Isolation 2 ports
COM-2PD-LPE
Windows Linux



Isolation 4 ports
COM-4PD-PE
Windows Linux



Contec Global Network

U.S.A.

CONTEC AMERICAS INC.
3991 Sarno Road, Melbourne, FL 32934 U.S.A.
Tel. : +1-321-728-0172
e-mail : sales@us.contec.com

KOREA

CONTEC CO., LTD. KOREA BRANCH
19, Cheongmyeong-ro 21beon-gil,
Yeongtong-gu, Suwon-si, Gyeonggi-do,
16705 KOREA

TAIWAN

TAIWAN CONTEC CO., LTD.
9FL, No. 738, Zhongzheng Road,
Zhonghe District, Xinbei 23511 TAIWAN
Tel. : +886-2-8227-8669

INDIA

CONTEC CO., LTD. India Liaison Office
Unit No. DPT-134, First Floor,
DLF Prime Towers , Okhla Phase- 1,
New Delhi -110020, INDIA
Tel. : +91-11-40541327

CHINA

CONTEC (SHANGHAI) CO., LTD
Room 1002, Qilai Building, No. 889,
Yishan Road, Xuhui District, Shanghai
200233 CHINA
Tel. : +86-21-5401-2288

SINGAPORE

SINGAPORE CONTEC PTE. LTD.
Blk 4010, Ang Mo Kio Ave. 10 #07-06A
Techplace I, 569626 SINGAPORE
Tel. : +65-6459-1667

https://www.contec.com/

Headquarters: CONTEC CO., LTD. (Japan)
3-9-31, Himesato, Nishiyodogawa-ku, Osaka 555-0025, Japan
Tel:+81-6-6477-5219 e-mail:intsales@jp.contec.com



Technology for a better life

IoT Remote I/O Modules

CONPROSYS™ Robust I/O Series



Ethernet type



Daisy chain model

RS-485 type



ROBUST DESIGN

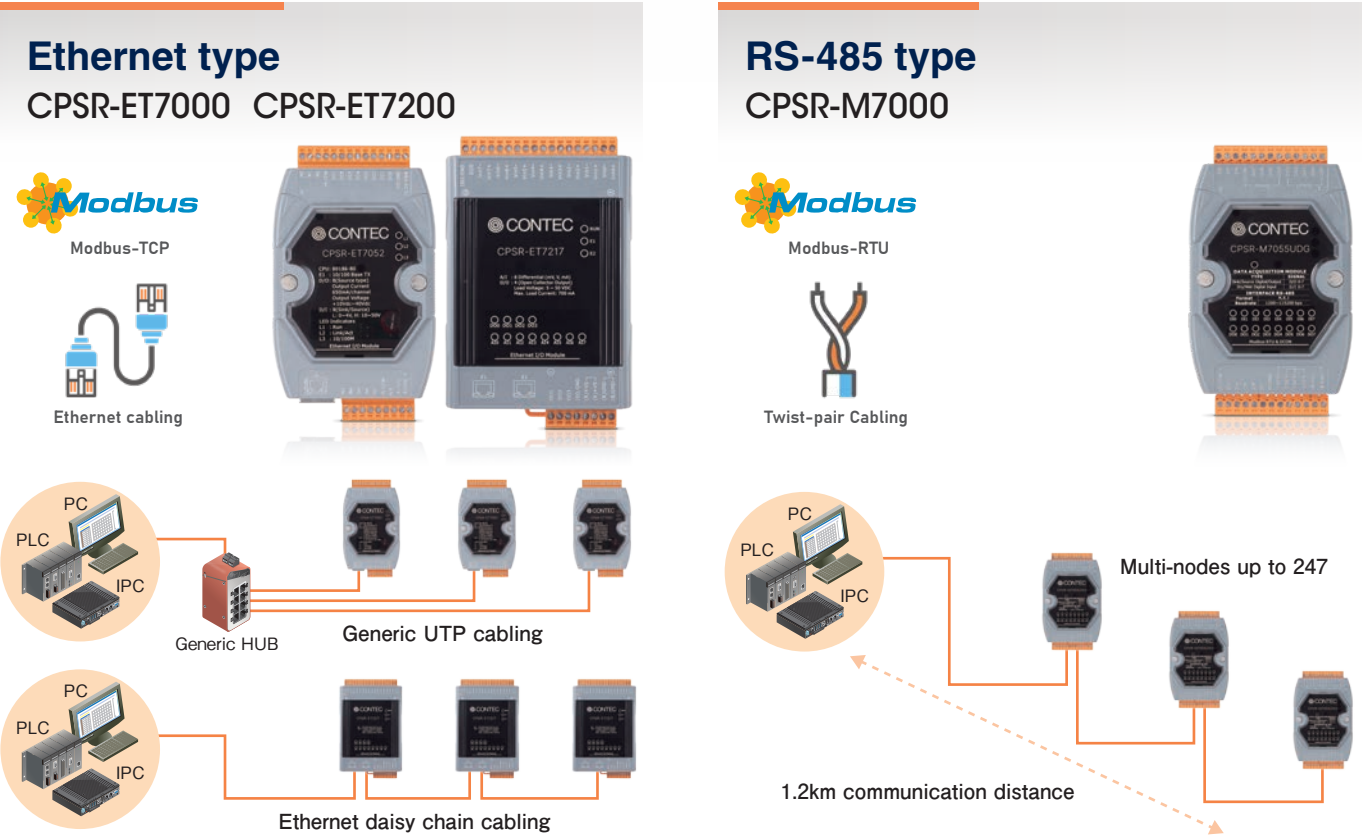
USEFUL CAPABILITY

EASY INSTALLATION

FAST DEVELOPMENT

www.contec.com

Environmentally
Resistant Remote I/O module



ROBUST DESIGN

-25 to 75°C / -13 to 167°F wide temperature range design

Operating: -25 to 75°C / -13 to 167°F (10 to 90% relative humidity).
Storage: -30 to 80°C / -22 to 176°F wide temperature range design.
Robust design that can be used in ambient temperature environments with large temperature changes.

Monitoring for both module and communication failures: Dual Watchdog

The Dual Watchdog function monitors for both module and communication failures. It automatically restarts when a module malfunction is detected. A module with a signal output forcibly returns the signal output to the power-on state (optional setting). The signal output is also returned to the safe value (optional setting) when communication commands from the host are interrupted. This prevents damage or abnormal operation of sensors/actuators connected to the module.

Strong ESD/EFT resistance and surge resistance

Passed IEC 61000-4-5 surge test, IEC 61000-4-2 ESD test, IEC 61000-4-4 EFT test.
Robust design resistant to noise, spikes and high voltage electrostatic discharge.
*Specifications vary by product.

Overvoltage protection

High overvoltage protection is provided for analog input and digital input channels. It prevents module damage caused by high-voltage spikes and miswiring.
*Specifications vary by product.

Overcurrent protection

The analog input channel provides overcurrent protection. It is protected so that high current and high voltage in the current loop do not affect current measurement.

LAN Bypass

When the module is powered off, the bypass function automatically activates to maintain and continue network communication.
(CPSR-ET7200 only)

Disconnection detection

The sensor input channel has a disconnection detection function. This prevents system malfunction due to broken wiring between the sensor and the input channel.

Virtual channel isolation

The analog input channel has virtual channel isolation function (leakage current less than 1 µA). Prevents noise interference from adjacent channels.

Common voltage protection

Common voltage protection is provided for the analog input channel. Measurement error is reduced when multiple channels are connected.

PRODUCT LINE UP

Ethernet (Modbus-TCP) type CPSR-ET7000 / - ET7200

Model	COM Port	Analog Input / Sensor Input							Analog Output			Digital Input / Counter				Digital Output			Overvoltage Protection / Overload Protection	Isolation	EMS Protection						
		Channels	Resolution	Input Range / Sensor Type	Sampling Rate	Overvoltage / Overcurrent Protection	Virtual CH to CH Isolation	Open Wire Detection	Channels	Resolution	Output Range	Channels	Contact	Off / On Voltage Level	Overvoltage Protection	Channels	Type	Load Voltage			EFT (IEC 61000-4-4)	ESD (IEC 61000-4-2)	Surge (IEC 61000-4-5)				
Analog Input / Output																											
CPSR-ET7217	2xRJ-45 (10 / 100BASE-TX)	8	16bit	±150mV, ±500mV, ±1V, ±5V, ±10V, 4 to 20mA, 0 to 20mA, ±20mA	10Hz (Normal) 50Hz (High speed)	240Vrms / 50mA max.(@110VDC)	±400VDC	Yes (for 4 to 20mA only)	-	-	-	-	-	-	-	4	Isolated Open Collector (Sink)	5 to 50VDC	60VDC / 1.4A	1500VDC (Ethernet) 2500VDC (I/O)	±2kV (Power Line)	±4kV (Contact for Each Terminal) ±8kV (Air for Random Point)	±2kV (Power Line)				
CPSR-ET7017		8							-	-	-	-	-	-	-	-							-	-	-	-	±0.5kV (Power Line)
CPSR-ET7026	1xRJ-45 (10 / 100BASE-TX)	6							-	-	-	2	12bit	0 to 5V, ±5V, 0 to 10V, ±10V, 4 to 20mA, 0 to 20mA	2 / 100Hz	Dry / Wet							1VDC max. (Wet) / 3.5 to 30VDC (Wet)	30VDC	2	±0.5kV (Power Line)	
CPSR-ET7224	2xRJ-45 (10 / 100BASE-TX)	-							-	-	4	5 / 100Hz		5	±2kV (Power Line)												
CPSR-ET7028	1xRJ-45 (10 / 100BASE-TX)	-	-	-	8	-	-	-	-	-	-	-		-	-												
Sensor Input																											
CPSR-ET7015	1xRJ-45 (10 / 100BASE-TX)	7	16bit	RTD Pt100, Pt1000, Ni120, Cu100, Cu1000	12Hz	120VDC	-	Yes	-	-	-	-	-	-	-	-	-	-	-	1500VDC (Ethernet) 2500VDC (I/O)	±4kV (Power Line)	±4kV (Contact for Each Terminal) ±8kV (Air for Random Point)	±0.5kV (Power Line)				
CPSR-ET7018ZS		10		Thermocouple J, K, T, E, R, S, B, N, C, L, M, LDIN43710 Voltage / Current ±15mV, ±50mV, ±100mV, ±500mV, ±1V, ±2.5V, 4 to 20mA, 0 to 20mA, ±20mA	10Hz	240Vrms										6	5 to 50VDC	60VDC / 1.4A									
Digital Input / Output																											
CPSR-ET7051	1xRJ-45 (10 / 100BASE-TX)	-	-	-	-	-	-	-	-	-	16 / 500Hz	Wet Sink / Source	4VDC max. / 10 to 50VDC	70VDC	-	-	-	-	1500VDC (Ethernet) 2500VDC (I/O)	±4kV (Power Line)	±4kV (Contact for Each Terminal) ±8kV (Air for Random Point)	-					
CPSR-ET7053												Dry Source	-	-													
CPSR-ET7044												8 / 500Hz	Wet Sink / Source	4VDC max. / 10 to 50VDC	70VDC	8	Isolated Open Collector (Sink)	10 to 40VDC	60VDC / 1.4A								
CPSR-ET7052																	Isolated Open Collector (Source)		47VDC			±0.5kV (Power Line)					
Relay Output																											
CPSR-ET7060	1xRJ-45 (10 / 100BASE-TX)	-	-	-	-	-	-	-	-	-	6 / 500Hz	Wet Sink / Source	4VDC max. / 10 to 50VDC	70VDC	From A : 6	Power Replay	5A @250VAC / 24VDC	-	1500VDC (Ethernet) 3000VDC (I/O)	±2kV (Power Line)	±4kV (Contact for Each Terminal) ±8kV (Air for Random Point)	±0.5kV (Power Line)					
CPSR-ET7066															From A : 8	PhotoMOS Relay	60V / 1.0A (-25 to 40°C, -13 to 104°F) 60V / 0.8A (40 to 60°C, 104 to 140°F) 60V / 0.7A (60 to 75°C, 140 to 167°F)				±4kV (Contact for Each Terminal)	-					

RS-485 (Modbus-RTU) type CPSR-M7000

Model	COM Port	Analog Input / Sensor Input							Analog Output			Digital Input / Counter				Digital Output			Overvoltage Protection / Overload Protection	Isolation	EMS Protection		
		Channels	Resolution	Input Range / Sensor Type	Sampling Rate	Overvoltage / Overcurrent Protection	Virtual CH to CH Isolation	Open Wire Detection	Channels	Resolution	Output Range	Channels	Contact	Off / On Voltage Level	Overvoltage Protection	Channels	Type	Load Voltage			EFT (IEC 61000-4-4)	ESD (IEC 61000-4-2)	Surge (IEC 61000-4-5)
Analog Input / Output																							
CPSR-M7017G	1×RS-485	8	16bit	±150mV, ±500mV, ±1V, ±5V, ±10V, 4 to 20mA, 0 to 20mA, ±20mA	10Hz	120VDC	-	-	-	-	-	-	-	-	-	-	-	-	3000VDC (Intra-module)	-	±2kV (Contact for Each Terminal)	-	
CPSR-M7028DG		-	-	-	-	-	-	-	8	12bit	0 to 5V, ±5V, 0 to 10V, ±10V, 4 to 20mA, 0 to 20mA	-	-	-	-	-	-	-	-	±4kV (Power Line)	±4kV (Contact for Each Terminal)	-	
Sensor Input																							
CPSR-M7015G	1×RS-485	6	16bit	RTD Pt100, Pt1000, Ni120, Cu100, Cu1000	12Hz	120VDC	-	-	-	-	-	-	-	-	-	-	-	-	3000VDC (Intra-module)	±4kV (Power Line)	±4kV (Contact for Each Terminal)	-	
CPSR-M7018ZGS		10		Thermocouple J, K, T, E, R, S, B, N, C, L, M, LDIN43710 ±15mV, ±50 mV, ±100mV, ±500mV, ±1V, ±2.5V, 4 to 20mA, 0 to 20mA, ±20mA	10Hz	240Vrms	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	±4kV (Power Line)	±4kV (Contact for Each Terminal)	±0.5kV (Power Line)
Digital Input / Output																							
CPSR-M7052DG	1×RS-485											8 / 100Hz	Wet Sink / Source	1VDC max. / 4~30VDC	±35VDC					5000Vrms (Intra-module)	±4kV (Power Line)	±4kV (Contact for Each Terminal)	-
CPSR-M7051DG												16 / 100Hz	Dry / Wet Sink / Source	4VDC max. / 10~50VDC	±70VDC								±8kV (空气中)
CPSR-M7053DG												16 / 100Hz	Dry Source	-	-	5000Vrms (Intra-module)	-	-	-	-			
CPSR-M7055UDG												8 / 100Hz	Dry / Wet Sink / Source	4VDC max. / 10~50VDC	±70VDC	8	Push-Pull (Sink / Source)	3.5 to 80VDC	-	2000VDC (Intra-module)	±4kV (Power Line)	±8kV (Contact for Each Terminal) ±15kV (Air for Random Point)	±2kV (Power Line)
Relay Output																							
CPSR-M7060PDG	1×RS-485											4 / 100Hz	Wet Sink / Source	4VDC max. / 10 ~ 50VDC	±70VDC	From A : 2 From C : 2	Power Replay	From A : 16A @250VAC / 10A @30VDC From C : NO 10A @250VAC / NC 6A @250VAC		3750VDC (Intra-module)	±4kV (Power Line)	±4kV (Contact for Each Terminal) ±8kV (Air for Random Point)	±3kV (Power Line)
CPSR-M7066PDG												-	-	-	-	From A : 7	PhotoMOS Relay	80V (AC peak or DC) @1A 0.24A @220VDC / 0.25A @250VAC		2000VDC (Intra-module)	±4kV (Relay) ±4kV (Power Line)	-	