

Reference Manual

CONTEC Data Collector for Modbus

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CONTEC CO., LTD.

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Introduction

This chapter provides necessary information of the product such as the product configuration and manuals before actual use.

1.Related Manuals

The manuals related to the product are listed below.

Read them as necessary along with this document.

Must Read The Following Manuals.

Name	When To Read	Contents		How To Get
CONTEC Data Collector for Modbus (This document)	Read this when setting up the product.	This describes the usable specifications and how to set parameters with the product.	~	Download from the Edgecross Marketplace (PDF)
Edgecross Basic Software User's Manual	Read this when setting the [CONTEC Data Collector for Modbus].	This describes the specifications, procedure to run the software, functions, troubleshooting, and more.	*	Download from the Edgecross Marketplace (PDF)

Download Manuals

Download the manuals from the following URL.

Download

https://www.marketplace.edgecross.org/

2.Product Overview

1. About Edgecross

Edgecross is a standard open edge computing software platform going beyond the bounds of companies and industries that promote the use of IoT at manufacturing sites. It connects the edge computing area between FA and IT systems and realizes seamless data coordination, which is independent from hardware.

Since 2017, which is when "Edgecross Consortium" was establishment, operation monitoring, preventive maintenance and data analysis software, or supporting industrial computers have been released, and the applications for those have expanded in the field of edge applications. On the other hand, while data were collected from industrial networks such as OPC UA in the area of FA field, it was difficult to collect the data from sensors or switch circuits that were incompatible with industrial networks due to the lack of supporting devices or software.

With the "CONTEC Data Collector" software, you can utilize our extensive measuring controllers and remote I/O devices on the Edgecross platform, and collect data from sensors or switch circuits that are incompatible with industrial networks. This software enhances the application range of the Edgecross platform, and contributes to the development for various industries as well as the manufacturing industry.



${igle}$ edgecross imes conprosys

2. About "CONTEC Data Collector for Modbus "

The [CONTEC Data Collector for Modbus] is software that implements data coordination between the Edgecross basic software platform and the digital, analog I/O measurement control, remote I/O devices of the CONTEC.

Modbus is a communication protocol widely used in the industrial field.

Collecting, reading, and writing data for the CONTEC devices containing Modbus slave function can be performed by installing the Data Collector on higher-level communication devices containing a Modbus master function.

3.Data Collector Specifications

1. Modbus Function

The following table lists supporting function codes.

Modbus function code	Description
Read Coil Status (0x01)	Read coil and digital outputs.
Read Input Status (0x02)	Read input status and digital inputs.
Read Holding Registers (0x03)	Read holding registers.
Read Input Registers (0x04)	Read input registers.
Force Single Coil (0x05)	Write single to coil and digital output.
Preset Single Register (0x06)	Write to holding register.
Force Multiple Coil (0x0F)	Write to multiple coils and to digital outputs simultaneously.
Preset Multiple Registers (0x10)	Write to multiple holding registers simultaneously.

2. Common Specifications

	Item	Specification
Support Language		English, Japanese
Collection Function	Collection Interval	100 msec to 900 msec 1 sec to 3600 sec
	Data Type	BOOL, UINT, UDINT, REAL
Read Function	Collection Interval	100 msec to 900 msec 1 sec to 3600 sec
	Data Type	BOOL, UINT, UDINT, REAL
Write Function	Collection Interval	100 msec to 900 msec 1 sec to 3600 sec
	Data Type	BOOL, UINT, UDINT, REAL

3. Data Type

There are four types of data handled by Modbus: Coil, Input Status, Input Registers, and Holding Registers.

Data type	Access	Data size	Corresponding function code
Coil	Read/Write	1bit	0x01, 0x05, 0x0F
Input Status	Read	1bit	0x02
Input Registers	Read	16bit	0x04
Holding Registers	Read/Write	16bit	0x03, 0x06, 0x10

4.Function

1. Collection Function

Inputting is performed at the set time interval from the specified function code and register.

2. Read Function

Inputting is performed at the timing requested by the Edgecross basic software from the specified function code and register.

3. Write Function

Outputting is performed at the timing requested by the Edgecross basic software from the specified function code and register.

Software

This section provides the information on the settings of the data collector software.

1.About Driver

1. Data Collector Installing

- **1** Extract the downloaded data collector package to an appropriate place.
- 2 Execute the extracted file listed below. \Installer\Modbus\setup.exe
- **3** Select the language you wish to install, and click the [Next].

CONTEC Data Collector for Modbus - InstallShield Wizard	_		×
Choose Setup Language Select the language for the installation from the choices below.			Z
English Japanese			
InstallShield	xt >	Ca	ncel

4 Enter the license code, and click the "Next".

CONTEC Data C	ollector for Modbus - InstallShie	ld Wizard		×
License co	de			No.
Please in⊧	ut the obtained license code	•		
License				
InstallShield ——	[< <u>B</u> ack	<u>N</u> ext >	Cancel

5 Select the program icon to add into the Program Folder, and click the "Next".

CONTEC Data Collector for Modbus - InstallShield Wizard	\times
Select Program Folder Please select a program folder.	
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list.	
<u>P</u> rogram Folder:	
CONTEC Data Collector	
Existing Folders: Accessories Administrative Tools CONTEC Edgecross Basic Software Maintenance StartUp System Tools	
InstallShield Cancel	

6 When the installation is completed, the "CONTEC Data Collector for Modbus " will be added to the Start menu, and this Reference Manual will be stored in the program folder.

CONTEC Data Collector for Mo	dbus - InstallShield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed CONTEC Data Collector for Modbus. Click Finish to exit the wizard.
	< Back Finish Cancel

2. Uninstall

Select the "CONTEC Data Collector for Modbus" from the "Programs and Features " in the "Control Panel", and uninstall it.

2.About Data Collector

This section describes how to set the data collector.

1. Parameter Setting

♦ Target Device Setting

Select and set a device used in the data collector.

On the "Real-time Flow Designer", select the [Target Device Setting].

On the [Target Device Setting List], select a row which has no target device.

Click the [Edit] button.

🛞 Real-time Flow Designer					-	\Box ×
<u>File Edit View Diagnostics H</u> elp						
Seal-time Flow Manager Parameter Seal-time Flow Manager Parameter Seal-time Flow Setting Data Logging Flow Setting Data Diagnosis Flow Setting Setting Gateway Setting	Adding/E	arget Device Setting List diting Target Device Setting ss [Edit] button after selecting to ss [Edit] button after selecting co	e blank row when Target D	vevice Setting is added to the new. sting Target Device Setting was edited.	Ø	Home
🖃 🍫 Common Setting	* "Settings	" are displayed only with the cor	responding Data collector.			
Operation setting	No.	Target Device Name	Comment	Data collector		s ^
🎲 DB Connection Common Settii	▶ 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	14					
	15					
						~
						,
<	Edit	Delete				
Discard Edit				Apply		Exit

On the "Select Data collector", select the [CONTEC Data Collector for Modbus Version 1]. Click the [OK] button.

Sel	ect Da	ta col	lector			×
2	Select	Data	collector			
F	Please	seleo	t a Data collector you want to use from the list of the currently installed	Data collectors.		
	No.		Data collector Name	Collect	Write	
	•	1	CONTEC Data Collector for Modbus Version 1 (CONTEC CO.,LTD.)	Supported	Supported	
		2	CSV File Data collector Version 1 (Edgecross Consortium)	Supported	Not Supported	
					ок	Cancel

Set the [IP Address] and the [Port No.] of the target device.

Target Device Sett	ing No. [1]			×
Setting Name	ContecModbus			
Comment	For communication with Modbus si	mulator		
Please specif	y the data access target.			
IP Address	127.0.0.1			
Port No.	502			
Unit identifier	r 00	(HEX)		
			OK Can	cel

Setting Item	Description
Setting Name *1	Set a name of the target device with 1-32 letters. The target device names that have already been used are displayed by default in order to avoid the same names to be set. Dev01, Dev02, Dev03,
Comment	A comments can be set within 100 letters
IP Address	Set IP address of the slaves. The default is 10.1.1.101. The range is 0.0.0.0 - 255.255.255.255.

Setting Item	Description
Port No.	Set a port No. with 1-4 letters. The default is 502. The range is 0 - 1023.
Unit identifier	Set a unit identifier. The default is 0001(HEX). The range is 0000 - FFFF(HEX).

*1 The target device names that have already been set are unavailable.

Collection Parameters

On the "Data Collection Setting" of the Edgecross, open the [Collection Option] tab.

CONTEC CO.,LTD. CONTEC Data Collector for Modbus I Colection Option a Setting lection data. Jata Name Constant Location (end) Data Type Length Setting Value ataolo1 1,1,1,1,1 1,1,1,1,1 BOOL A atao 1 1,1,1,1,1 1,1,1,1,1 A A A										
CONTEC Data Collector for Modbus I arrsion 1 Collection Option setting a Setting I lection data. I Jata Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	eveloper		CONTEC CO).,LTD.						
I I Colection Option a Setting a Setting I lection data. I Jata Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 I I,1,1,1,1 I,1,1,1,1 BOOL I I I I II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ata collector	Name	CONTEC Da	ta Collector for Modbu	us					
Collection Option a Setting lection data. Jata Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL	ata collector	Version	1							
Collection Option a Setting lection data. Jata Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL Image: Constant Control (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL Image: Control (top) Image: Control (t										
Concretion opcom a Setting lection data. Jata Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL Image: Constant Constan	ollection Da	Collection Option	0							
a Setting lection data. Data Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL Colspan="2">Colspan="2">Colspan="2">Colspan="2"	ollection ba		11							
a Setting lection data. Jata Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1 BOOL 1,1,1,1,1 BOOL 1,1,1,1,1 BOOL 1,1,1,1,1 BOOL 1,1,1,1,1 BOOL 1,1,1,1,1 BOOL 1,1,1,1,1 BOOL 1,1,1,1,1 BOOL					_					
Idection data. Data Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL	Collection [)ata Setting								
Instrume Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL Image: Constant instrume Image: Constant instrum Image:					_					
Data Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL	Please set	collection data.								
Data Name Constant Location (top) Location (end) Data Type Length Setting Value ata001 1,1,1,1,1 1,1,1,1,1 BOOL										
ata001 1,1,1,1,1 1,1,1,1,1 BOOL	No.	Data Name	Constant	Location (top)		Location (end)	Data Type	Length	Setting Value	
		Data Name	Constante							
	▶ 1	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
	▶ 1 2	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
	▶ 1 2 3	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
	▶ 1 2 3 4	Data001		1,1,1,1,1	····	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5	Data001		1,1,1,1,1	···· ···· ····	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6	Data001		1,1,1,1,1	···· ···· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7	Data001		1,1,1,1	···· ···· ··· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7 8	Data001		1,1,1,1	···· ···· ···· ···· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7 8 9	Data001		1,1,1,1		1,1,1,1,1	BOOL			
Image: Constraint of the second se	▶ 1 2 3 4 5 6 7 8 9 10	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
Image: Constraint of the second se	▶ 1 2 3 4 5 6 7 8 9 10 11	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
	1 1 2 3 4 5 6 7 8 9 10 11 12	Data001		1,1,1,1,1		1,1,1,1,1	BOOL	Image: Constraint of the second sec		
	▶ 1 2	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5	Data001		1,1,1,1,1	··· ··· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5	Data001		1,1,1,1	··· ··· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6	Data001		1,1,1,1,1	···· ···· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6	Data001		1,1,1,1	···· ···· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7	Data001		1,1,1,1,1	···· ··· ··· ···	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7 8	Data001		1,1,1,1	···· ···· ···· ····	1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7 8	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
Image:	▶ 1 2 3 4 5 6 7 8 9	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7 8 9 10	Data001		1,1,1,1,1		1,1,1,1,1	BOOL			
	▶ 1 2 3 4 5 6 7 8 9 10	Data001		1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1,1 1,1,1,1,1,1 1,1,1,1,1,1,1 1,1,1,1,1 1,1,1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1,1 1,1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1,1 1,1,1,1,1 1,1		1,1,1,1,1	BOOL			
Image:	▶ 1 2 3 4 5 6 7 8 9 10 11	Data001		1,1,1,1,1		1,1,1,1,1	BOOL	Image: Constraint of the sector of		

Specify the data collection interval.

Collection Data	Collecti	on Option						
Please specify	y the coll	ection inter	val.					
Collection inte	erval	1 ÷ 00	msec	~	(100-900)			

As for the collection interval, refer to "Common Specifications" (page7).

Location Parameters

Specify the location parameters to access devices set in the Target Device Setting.

On the "Data Collection Setting" of the Edgecross, select the button framed in by the red square

veloper									
		CONTEC CO	.,LTD.						
ta collector Nai	me	CONTEC Da	ta Collector for Modb	us					
ta collector Ver	rsion	1							
		-							
lection Data	Collection Option	3							
lection Data	Collection Option	1							
				_					
Collection Data	a Setting								
	antion data								
lease set colle	ection data.								
No. D	ata Name	Constant	Location (top)		Location (end)	Data Type	Length	Setting Value	1
				_					
▶ 1 Da	ata001		1,1,1,1,1		1,1,1,1,1	BOOL			
▶ 1 Da	ata001		1,1,1,1,1		1,1,1,1,1	BOOL			-
▶ 1 Da 2 3	ata001		1,1,1,1,1	•••	1,1,1,1,1	BOOL			
▶ 1 Da 2 2 3 4	əta001		1,1,1,1,1		1,1,1,1,1	BOOL			
 1 Da 2 3 4 5 	ata001		1,1,1,1,1	··· ··· ···	1,1,1,1,1	BOOL			
 1 Da 2 3 4 5 6 	ata001		1,1,1,1,1	···· ··· ···	1,1,1,1,1	BOOL			
 1 Da 2 3 4 5 6 7 	ata001		1,1,1,1,1	···· ···· ···· ···	1,1,1,1,1	BOOL			
 1 Da 2 3 4 5 6 7 8 	ata001		1,1,1,1,1	··· ··· ··· ···	1,1,1,1,1 	BOOL			
 1 Da 2 3 4 5 6 7 8 9 	ata001		1,1,1,1,1		1,1,1,1,1 	BOOL			
▶ 1 Da 2	ata001		1,1,1,1,1		1,1,1,1,1	BOOL			
▶ 1 Da 2 3 4 5 6 7 8 9 10 11	ata001					BOOL	Image: Constraint of the second sec		
▶ 1 Da 2 3 4 5 6 7 8 9 10 12	ata001					BOOL			
 1 Da 2 3 4 5 6 7 8 9 10 11 12 	ata001					BOOL			

Set the location parameters.

Location Setting	×
The function Read Coil Status (0x00000)	\sim
The starting address 00 00 (HEX)	
The number of register 00 01 (HEX)	
Data type Bool (1Bit) \sim	
Analog input range $$ -10 \sim 10V $$ \sim	
ОК	Cancel

Setting Item			Description						
The function	Set The	the function from Modb e default is Read Coil Stat	us function code. us(0x00000).						
The starting address	Set The	: the starting address. e default is 00001(HEX).							
The number of registers	Set The	the number of registers te default is 0001(HEX).	to access.						
Data type	Set The If t be As	Set a data type. The default is Bool (1Bit). If there is an inconsistency in the combination of function and data type, an error will be output. As for the data type, refer to " Common Specifications							
	Item								
		Support Language	English, Japanese						
		Collection Function	Collection Interval	100 msec to 900 msec 1 sec to 3600 sec					
			Data Type	BOOL, UINT, UDINT, RE					
		Read Function	Collection Interval	100 msec to 900 msec 1 sec to 3600 sec					
			Data Type	BOOL, UINT, UDINT, R					
		Write Function	Collection Interval	100 msec to 900 msec 1 sec to 3600 sec					
			Data Type	BOOL, UINT, UDINT, RE					
	Da	ta Type"(page7).							
Analog input range	Set Thi Sel (-1	the analog input range. s is available only when the ct the range from five chord to $+10V$, -5 to $+5V$,	ne data type is REAL (4Byte). noices listed below. -2.5 to +2.5V, 0 to +10V, -2	20 to +20mA)					

2. Error Handling

The detailed information on the errors that occur in the data collector function is listed below.

An example of the display contents

Overview

Collection parameters acquisition failure

Event code

2002

Detailed information

[Process flow information]

Error occurrence function : Data collector

Process flow type: Data diagnostic flow

Data logging / Diagnostic flow No. : 1

Process No. : 1

Target device setting No. : 1

Causes

An error occurred in collection parameters.

Troubleshooting Check the data collection interval.

Error Code

Error Code [Hex]	Description
1001	Target device Connected
1002	Target device Disconnected
2001	Communication parameter acquisition failed
2002	Collection parameter acquisition failed
2003	Data parameter acquisition failed
2010	Communication state report failed
2011	Data collection interval setting failed
2021	Socket creation error
2022	Socket transmission error
2023	Socket reception error
2024	Modbus response function code is not the expected value
2025	Modbus response message size is not the expected value

Examples of Data Collector Applications

This section describes how to collect data using the CONTEC's remote IoT device [CPSN-MCB271-S1]. For details on the CPSN-MCB271-S1, refer to the <u>Reference Manual</u>.

1. Procedure

1. Items

- PC with Edgecross Basic Software pre-installed (hereafter referred to as the Modbus master)
- CPSN-MCB271-S1-041 (hereafter referred to as the Modbus slave)
- Power unit for the CPSN-MCB271-S1-041
- I/O module for connecting a coupler unit of the CPSN-MCB271-S1-041

(The [CPSN-DI-16BCL] is used in the example).

- Ethernet cable

2. Device Setting

- Install this Data Collector into the Modbus master. (Refer to "Data Collector Installing(page10)")
- 2 Set up the Modbus master network. See the "Set the Computer Network" section in Reference Manual (Software) of CPSN-MCB271-S1-041, and set up the network with IP address as listed below.

IP address: **10.1.1.200** Subnet mask: **255.0.0.0**

Internet Protocol Version 4 (TCP/IPv4)	Properties	×
General		
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator	
Obtain an IP address automatical	ly	
Use the following IP address: —		
IP address:	10 . 1 . 1 . 200	
S <u>u</u> bnet mask:	255.0.0.0	
Default gateway:		
Obtain DNS server address auton	natically	
• Use the following DNS server add	resses:	
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Ad <u>v</u> anced	
	OK Cance	9

- **3** Connect the I/O module to the Modbus slave.
- 4 Connect the Modbus slave and the Modbus master with Ethernet cable, then, turn on the power of the slave.
- **5** Open Internet Explorer on the Modbus master.

6 Type "10.1.1.101" in the address bar. Press the [Enter] key on the keyboard. The login page appears. Type "mcb271" and click the [Login].

← → ◎ 10.1.1.101 ◎ CONPROSYS nano WEB Set × 1		- →	検索	 © © ☆ ☆ ⊕
CONPROSYS nano V	/EB Setting			CPSN-MCB271-S1 - ver.1.33
	Please enter the password and logir	n. Login		

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 \sim

7 Enter an arbitrary value in the register of the I/O module to see whether data can be collected appropriately. The CONPROSYS nano WEB Setting page appears. Click the [I/O Module].

(-) (-) (-) (-) (-) (-) (-) (-) (-) (-)	op.htm 👻	- ロ X さ 検索 タマ 命会際 🥴
CONPROSYS nano WEB Set ×	1	
CONPROSYS nan	o WEB Setting	CPSN-MCB271-S1 - ver.1.33
Settings	Settings	
 System 	Sustam	
Device I/O Control	Device_I/O.Control	
= I/O Module	I/O Module	
Network Time	Network Time	
= Log	Log	
✓ Status	a	
System	Status	
= Log	Custom	
I/O Data View	Log	
Modbus Data View	I/O Data View	
✓ Maintenance	Modbus Data View	
Firmware Update		
Configuration File	Maintenance	
Time Adjustment		
Default Setting	Firmware Update	
Top Page	Configuration File	
Japanese	Default Setting	
Help		~
trops, y for the to the state of the		©2018 CONTEC CO., LTD. All rights reserved.

8 The I/O module setting page opens. Go to [CPSN-DI-16BCL] - [CH0]. Enter any values in the [Comparison Value]. Then, click the [Submit].

	no WEB Setting			CPSN-MC	B271-S1 - ver.1.3
= Log	Digital Filter	OFF 🗸			
∕ Status					
 System 	Slot 2: CPSN-DI-16BCL				
Log	Channel Setting				
I/O Data View	Channel Number	CH0	CH1	CH2	CH3
Modbus Data View	Digital Filter(ms)	1	1	1	1
Eirmware Undate					
Configuration File	Count Edge	Rise V	Rise V	Rise 🗸	Rise V
 Time Adjustment 	Count Operation	Stop 🗸	Stop 🗸	Stop 🗸	Stop 🗸
Default Setting	Count Initial Value	Not set 🗸	Not set 🗸	Not set 🗸	Not set 🗸
Top Page		0	0	0	0
Japanese	Comparison Value	4294967290	0	0	0
Help	<				>
≠ Save / Reboot					
Save & Reboot	Channel Number	CH8	CH9	CH10	CH11
Save	Digital Filter(ms)	1	1	1	1
Reboot	Count Edge	Rise 🗸	Rise 🗸	Rise 🗸	Rise 🗸
Shutdown	Count Operation	Stop 🗸	Stop 🗸	Stop 🗸	Stop 🗸
= Logout		Not set 🗸	Not set 🗸	Not set 🗸	Not set 🗸
	Count Initial Value	0	0	0	0
	Comparison Value	0	0	0	0
					>

9 The following page opens. Click the [Save & Reboot].

	et_cfg_io_module.cgi マウ 検索 ・ ・ ・ ・ ① ☆ 谷	× \$\$ (!)
© CONPROSYS nano WEB Set × [♪		
CONPROSYS nano	WEB Setting CPSN-MCB271-S1 - ver.1.33	3
Menu 🗄 🖻		
✓ Settings		
= System		
= Device I/O Control		
= I/O Module		
Network Time		
= Log	Setting was saved temporarily.	
✓ Status	It is necessary to Save and Reboot.	
= System		
= Log	>>> Top	
= I/O Data View		
Modbus Data View		
✓ Maintenance		
Firmware Update		
Configuration File		
Time Adjustment		
= Default Setting		
= Top Page		
Japanese		
= Help		
✓ Save / Reboot		
Save & Reboot		
= Save		
= Reboot		
= Shutdown		
= Logout		
	©2018 CONTEC CO., LTD. All rights reserve	ed.

10 Wait for three minutes or so, and repeat steps 5-7, then click the "Modbus Data View". Check whether the setting value has been saved as shown below.

UNPROSYS nano WEB Set ×																
CONPROSYS nan	o WEB S	Setting										CPSN	-мсв2	71-S1	- ver.1	
lenu Te																
Settings	Moap	ous data v	lew													
 System 	Status >	Modbus Data View														
Device I/O Control		7/0.14	- · ·													
I/O Module	Slot	I/O Module	Register	Data Name	Add	ress	Number								Data	
Network Time					Dec	Hex		+00	+01	+02	+03	+04	+05	+06	+07	
Log	0	CPSN-DI-08L	Input Status	Digital Input	0	0000	8	0	0	0	0	0	0	0	0	
tatus	1	CPSN-DO-08L	Coil	Digital Output	0	0000	8	0	0	0	0	0	0	0	0	
System				Count Operation	8	0008	16	0	0	0	0	0	0	0	0	
Log				Count Match	24	0018	16	0	0	0	0	0	0	0	0	
I/O Data View			Coil	Carry	40	0028	16	0	0	0	0	0	0	0	0	
Modbus Data View				Counter Value Zero Clear	56	0038	16	0	0	0	0	0	0	0	0	
Firmerunges Undets				Input Status	Digital Input	8	0008	16	0	0	0	0	0	0	0	0
Firmware Update								0000	0000	0000	0000	0000	0000	0000	0000	
Configuration File				Counter Input	0	0000	32	0000	0000	0001	0000	0000	0000	0000	0000	
Time Adjustment			Input Register	Digital Input	32	0020	1	0000	-	-	-	-	-	-	-	
Default Setting				Count Match	33	0021	1	0000	-	-	-	-	-	-	-	
op Page	2	CPSN-DI-16BCL		Carry	34	0022	1	0000	-	-	-	-	-	-	-	
apanese				Comparison Value				FFFF	FFFA	0000	0000	0000	0000	0000	0000	
ieip				Setting	0	0000	32	0000	0000	0000	0000	0000	0000	0000	0000	
ave / Reboot								0000	0000	0000	0000	0000	0000	0000	0000	
Save & Repoot				Count Value Setting	32	0020	32	0000	0000	0000	0000	0000	0000	0000	0000	
Save			Holding	Count Operation	64	0040	1	0000	-	-	-	-	-	-	-	
Reboot			Register	Register	Count Match	65	0041	1	0000	-	-	-	-	-	-	-
Shutdown				Carry	66	0042	1	0000	-	-	-	-	-	-	-	
Logout				Counter Value Zero Clear	67	0043	1	0000	-	-	-	-	-	-	-	
	3	CPSN-DI-08L	Input Status	Digital Input	24	0018	8	0	0	0	0	0	0	0	0	
	<														`	

3. Data Collection Setting

1 On the Modbus master, start up the "Edgecross Real-time Flow Designer". Select the [Target Device Setting] and choose the blank row where no [Target Device Setting] is set. Click the [Edit].

Real-time Flow Designer						— r	×
Eile Edit View Disgnatics Hale						L	
Edic Otew DisplayEdic Parameter Bar Real-time Flow Manager Parameter Data Loging Flow Setting Data Loging Flow Setting Target Device Setting Gateway Setting Scommon Setting	Adding/E Please pres Please pres * "Settings	arget Device Setting List diting Target Device Setti ss [Edit] button after selectin s [Edit] button after selectin " are displayed only with the	ng g the blank row when Tr g corresponding row wh corresponding Data coll	arget Device Sett en existing Targe lector.	ing is added to the t Device Setting w	new. as edited.	r H
🍄 Operation setting	No.	Target Device Name	Comment	Data co	llector		
🎭 DB Connection Common Setti	▶ 1						
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	<						
د >	Edit <	Delete					1
Discard Edit					Apply	E	xit

2 On the [Select Data collector], select the [CONTEC Data Collector for Modbus Version 1(CONTEC CO., LTD.]. Click the [OK].

Select Da	ta coll	ector			 ×
Select	Data o	collector			
Please	selec	t a Data collector you want to use from the list of the currently installed D	ata collectors.		
No.		Data collector Name	Collect	Write	
	1	CONTEC Data Collector for Modbus Version 1 (CONTEC CO.,LTD.)	Supported	Supported	
	2	CSV File Data collector Version 1 (Edgecross Consortium)	Supported	Not Supported	
				OK	Cancol
				UK	Cancer

For the target device, set the IP address and the port number as listed below. Click the [OK]. Setting Name: Any name
 Comment: Any comment
 IP Address: 10.1.1.101
 Port No.: 502
 Unit identifier: 01(HEX)

Target Device Setting) No. [1]				×
Setting Name	Dev01]		
Please specify t	he data access target.				
IP Address	10.1.1.101]			
Port No.	502				
Unit identifier	01	(HEX)			
		-			
]	ОК	Cancel

4 Go to the [Process Flow Setting] menu and select the [Data Logging Flow Setting]. Choose the blank row where no [Data Logging Flow Name] is set. Click the [Edit].

🚳 Real-time Flow Designer						- (□ ×
<u>File Edit View Diagnostics Help</u>							
Real-time Flow Manager Parameter Real-time Flow Setting Data Logging Flow Setting Target Davice Setting Dev01 Gateway Setting	Adding/ Data Log Please pr Please pr	Data Logging Flow Setting List Editing Data Logging Flow ging Flow is a Process Flow wh ress [Edit] button after selectir ress [Edit] button after selectir	Setting ich is aimed at saving g blank row when Dat g corresponding row w	data to file. a Logging Flow S /hen existing Dat	etting was added t ta Logging Flow Set	o the new. tting was e	dited.
Common Setting Setting Setting Setting							L Move
Source DB Connection Common Setti	No. ▶ 1 2 3 4 5 6 7 8	Data Logging Flow Name	Comment	Numbe	r of Data Modificat	ion Process	
	Ed	lit Duplicate	Delete				1
< >	<						>
Discard Edit					Apply	E	xit

5 The Data Logging <u>Flow Setting page opens</u>. Select the "Not Set" in the [Detailed Setting].

eas ecu	e ade ite th	d processes to the li le Process Flow acc	ist and set processing content ording to the order of the list.	5.			
0	AIIIG	Process Type	Function Type	Process Name	Detailed Setting	Data Storing	Data Distributi
· ·	1	Data Collection	-	Data Collection	Not Set	Do not execute	Do not execu
	2	Data Modification	No Processing				

6 The Data Collection Setting page opens. Select the [Collection Option] tub. For the Collection interval, select 1 and Second.

Data Collection Setting		×
Data Collection Setting		
Please select the Target Device fo	or data collection and specify the collection option.	
Target Device	Dev01	~
Developer	CONTEC CO.,LTD.	
Data collector Name	CONTEC Data Collector for Modbus	
Data collector Version	1	
Collection Data Collection Op	tion	
Please specify the collection	n interval.	
Collection interval 1	Escond (1-3600) Second (1-3600) Intec	
	OF	Cancel

7 Select the [Collection Data] tab and click the place framed in by the red square.

iger perice	Dev01					
veloper	CONTEC CO.	.,LTD.				
ta collector Name	CONTEC Dat	ta Collector for Modbus				
ta collector Version	1					
action Data Collection	Ontion					
Colection	option					
Collection Data Setting						
Please set collection data						
No. Data Name		Location (ton)	eration (and)	Data Type	Length	
NO. Duca Harris		Location (cop)	ocación (cina)			
▶ 1		Location (cop)				
▶ 1 2						Ľ
▶ 1 2 3						ľ
▶ 1 2 3 4						ľ
▶ 1 2 3 4 5 5						I
I						I
NO. Description 2						
I I 2						
No. Dear Name ▶ 1 2						
Image: Constraint of the second matrix of the sec						

8 The [Location Setting] page opens. Set the details as listed below and click the [OK]. The function: Read Holding Registers(0x400000) The starting address: 0000(HEX) The number of registers: 0002(HEX) Data type: UDInt(4Byte)

The starting address 00 00 (HEX) The number of registe 00 02 (HEX) Data type UDInt (4Byte) ~
The number of registe 00 02 (HEX) Data type UDInt (4Byte) ~
Data type UDInt (4Byte) \lor
Analog input range $$ -10 \sim 10V $$ \sim

9 On the [Data Logging Flow Setting] page, select the "Do not execute" in the [Data Storing].

Data Lo	ggin	g Flow Setting No. [1]				×
Settin	ig Na	me LoggingFlow	v01]		
Comn	nent				_		
Data	Log	aina Flow Settina					
Pleas	e ad	d processes to the li	st and set processing contents.				
Execu A max	ite th ximu	e Process Flow acc m of 4 processes ca	ording to the order of the list. In be executed in one flow.				
No.		Process Type	Function Type	Process Name	Detailed Setting	Data Storing	Data Distribution
►	1	Data Collection	-	Data Collection	Already Set	Do not execute	Do not execute
	2	Data Modification	No Processing				
A		ow Delete	Row				↑
						ОК	Cancel

10 For the Executable form, select the [File] and click the [Next].

Executable File Format Output Data Output Option Save File	
xecution format setting	
lease select the execution format to output the result of this process.	
Executable form File V Do not execute	
* When "Do not execute" is step confirming this screen.	
Back to Back to OK Canc	el

11 Select the file format to output and click the [Next].



12 Check off the box of the created process and click the [Next].

a storing	Jetting	,							Í
	° F	xecutable orm	File Fo	rmat	Output D	ata Out	tput Option Sav	e File	
lease set	ata S the o	etting itnut data	and output form	at for the	file				
elected d	ata is	output to	the file in the cor	ntent of [C	output Name].				
No.	_	Output	Process Name		Output Name	Data Type	Output Format		
1	1		Data Collection		Data001	UDINT	Integer Format		
	_	_		_		_			
s	elect	All	Cancel All						
				+	Back to	Next	OK.	Cance	

13 Set the format of output data. If no particular problems can be found, click the [Next].

Date Column Please set the format of output date	. column in the head column.
Output Name of Date Column	TIME
Specify the date and time form	nat
Data Row Output Format	YYYY/MM/DD hh:mm:ss.sss
Output Example	2020/11/24 16:45:10.199

14 Set the Saving File Setting. If no particular problems can be found, click the [OK].

- -)
ving file Setting	he file file name and the eneration of switching the file
ase set the save destination of th	ne nie, nie name and die operation of switching die nie.
Save Destination Folder	:#Users#Takao02#Documents
File Name Prefix	06
The example of saving file path	C:#Users#Takao02#Documents#LOG_0000001.csv
Upper bound number of sa when upper bound numbe	ving files (Delete the old file r of saving files was exceeded) 100 ⊕ [Number] (1 - 6000)
Upper bound number of sa when upper bound numbe Option Setting	ving files (Delete the old file of saving files was exceeded)
Upper bound number of sa when upper bound numbe Option Setting Execute any program al	ving files (Delete the old file of saving files was exceeded) [Number] (1 - 6000) fter switching file
Upper bound number of sz when upper bound numbe Option Setting Execute any program al Program Execution S	ving files (Delete the old file of saving files was exceeded) fter switching file etting Not Set
Upper bound number of sa when upper bound numbe Option Setting Execute any program al Program Execution S Use the Gateway to sen	wing files (Delete the old file of saving files was exceeded) fter switching file etting Not Set d the saved file
Upper bound number of sa when upper bound numbe Option Setting Execute any program al Program Execution S Use the Gateway to sen File Transmission Set	the switching file ter swet
Upper bound number of sa when upper bound numbe Option Setting Execute any program al Program Execution S Use the Gateway to sen File Transmission St	ving files (Delete the old file of saving files was exceeded) 100 € [Number] (1 - 6000) fter switching file etting Not Set thing Not Set

15 Select the [OK] and click the [Apply].

Real-time Flow Designer					- 🗆	×
<u>File Edit View Diagnostics Help</u>						
Qeal-time Flow Manager Parameter Process Flow Setting Data Logging Flow Setting	Data	Logging Flow Setting List	ntting			Q
Cognignow01 Data Diagnoss Flow Setting Data Diagnoss Flow Setting Dev01 Gateway Setting % Common Setting	Data Logging Please press Please press	Flow is a Process Flow whice [Edit] button after selecting [Edit] button after selecting	h is aimed at saving data blank row when Data Logo corresponding row when e	to file. Jing Flow Setting was added t xisting Data Logging Flow Set	to the new. tting was edited	d. Move Data Diagr
Operation setting	No. D	ata Logging Flow Name	Comment	Number of Data Modificat	tion Processes	
DB connection common seco	▶ 1 L0	ggingFlow01		0		
	2					
	3					_
	4					_
	5					_
	6					_
						_
	Edit	Duplicate	Delete			4
					_	
						,
Discard Edit				Apply	Exit	

4. Data Collection

Select the [Diagnostic] tab and select the [Real-time Flow Manager Diagnostics].

🞯 Real-time Flow Designer					-) ×		
<u>File Edit View Diagnostics Help</u>								
🗆 🎯 Real-time Flow 🛛 Real-time Flow M	lanager <u>D</u> iagn	ostics						
Process Flow Setting	Di Di	ata Logging Flow Setting List				G		
🗆 🔁 Data Logging Flow Setting								
LoggingFlow01	Adding/E	diting Data Logging Flow S	Setting					
🔯 Data Diagnosis Flow Setting	Data Logging Flow is a Process Flow which is aimed at saving data to file.							
Target Device Setting	Please pres	ss [Edit] button after selecting ss [Edit] button after selecting) blank row when Data I corresponding row w	a Logging Flow Setting was added when existing Data Logging Flow Se	to the new.	dited		
Dev01	ricuse pre.	oo (Early ballon arter beletting	, concoponding for h					
Gateway Setting						Move		
Second Second								
B Connection Common Setti	No.	Data Logging Flow Name	Comment	Number of Data Modifica	ation Proces	ses		
-	▶ 1	LoggingFlow01		0				
	2					_		
	3							
	4							
	5					_		
	6		_					
	/							
	8							
						_		
	Edit	Duplicate	Delete			1		
< >	<					>		
Discard Edit				Apply	E	Exit		

2 The [Real-time Flow Manager Diagnostics] page opens. Click the [Start Operation]. Wait for a minute or so. Make sure that there are no errors listed in the [Error Information List].

Real-time Flow Manager Diagnostics		×
Operating Status STOP	Monitor Status Start Operation Monitoring Stop Monitoring	
 Real-time Flow Manager Diagnos Operation Diagnosis Process Flow Diagnostics Data Logging Flow Data Diagnosis Flow 	Error Information List You can check the information of the errors occurring in Real-time Flow Manager and in the Data collect Manager. To check the event logs, please display the Event History screen using the button at the bottom of the s	or used by Real-time Flow creen.
Device Access Diagnostics Gateway Diagnostics Status memory monitor	No. Time and Date of Imp Error Code Overview Prob 1 No Error - - - -	olem Function
	Legend 🔺 Critical 🔺 Modest 📩 Minor	Clear Error
< >>	File Saving Event Log	Close

3 Select the [Stop].

The log will be created in the Save Destination Folder specified in the [**Data Collection Setting No. 14**]. *Default is a user's document folder.

🟥 🛃 📙 🖛 Docum	nents	-	- 🗆 X
File Home Sha	are View		~ (
\leftrightarrow \rightarrow \checkmark \bigstar	This PC → Documents	✓ Ö Search Document	ts 🔎
🔹 Quick access	Name	Date modified Type Siz	e
Desktop 3	LOG_0000001.csv	12/2/2020 11:56 AM Text Document	1 KB
Downloads	*		
🔮 Documents 🗦	et all a second and a second a		
Pictures 🤉	*		
💻 This PC			
💣 Network			

4 Open the log file. Check whether setting values specified in the [**Device Setting No. 8**] are obtained. *This example shows that obtained 4294967290(DEC), FFFF FFFA(HEX).

LOG_0000001.csv - Notepad		4	_		Х	
<u>F</u> ile <u>E</u> dit F <u>o</u> rmat <u>\</u>	<u>/</u> iew <u>H</u> e	lp				
TIME, INDEX, Data@	901					^
2020/11/24 14:54	4:35.40	9,1,429	49672	90		
2020/11/24 14:54	1:36.42	9,2 429	49672	90		
2020/11/24 14:54	1:37.42	4,3 429	49672	90		
2020/11/24 14:54	1:38.42	9,4 429	49672	90		
2020/11/24 14:54	1:39.42	9,5,429	49672	90		
2020/11/24 14:54	1:40.42	9,6,429	49672	90		
2020/11/24 14:54	4:41.42	9,7,429	49672	90		
2020/11/24 14:54	1:42.42	9,8,429	49672	90		
2020/11/24 14:54	1:43.42	9,9,429	49672	90		
2020/11/24 14:54	1:44.42	9,10,42	94967	290		
2020/11/24 14:54	1:45.42	9,1 <mark>1</mark> ,42	94967	290		
2020/11/24 14:54	1:46.42	9,1 <mark>2</mark> ,42	94967	290		
2020/11/24 14:54	1:47.42	9,1 <mark>1</mark> ,42	94967	290		
2020/11/24 14:54	1:48.42	9,1 <mark>4</mark> ,42	94967	290		
2020/11/24 14:54	1:49.42	9,15,42	94967	290		
2020/11/24 14:54	1:50.42	9,1 <mark>6</mark> ,42	94967	290		¥
<					>	
Window Ln 16, Cc 100%						

Appendix

This section describes software details, and inquiries.

1.Inquiries

Contact your retailer about the matter which is not described in this reference manual or unusual operation.

Moreover, because the contents of question are hard to grasp as being oral, please inquire it in Email or Web form. We will contact you back.

When it is thought that operation is unusual, please write down the version of driver, Edgecross basic software, Data Collector and the hardware environment of PC or other using devices in detail.

Please note that we cannot answer general questions such as how to use the Edgecross basic software.

Before inquiry

The retailer first checks whether the hardware is not working properly or the software is not working, and responds according to each situation.

If you suspect an abnormal operation, please let us know in detail as much as possible after confirming the reproduction procedure and the location where the problem occurred.

Inquiry Contact to

Please refer to the contact information and templates for making inquiries on our website. https://www.contec.com/support/

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https://www.contec.com/download/	Product have which, Krywn the
You can download updated driver software, firmware, and differential	CCM prove bio
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is required to use the services.	

Revision History

MONTH YEAR	Summary of Changes
June 2020	The First Edition
December 2020	The section of Examples of Data Collector Applications was added.

CONTEC CO., LTD. 3-9-31, Himesato, Nishiyodogawa-ku, Osaka 555-0025, Japan

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