HITACHI PROGRAMMABLE CONTROLLER

HIDICEH-150

DeviceNet Master configuration Software (EH-RMDCFG) APPLICATION MANUAL



O Warranty period and coverage

The warranty period is the shorter period either 18 months from the date of manufacture or 12 months from the date of installation. However within the warranty period, the warranty will be void if the fault is due to;

(1) Incorrect use as directed in this manual and the application manual.

- (2) Malfunction or failure of external other devices than this unit.
- (3) Attempted repair by unauthorized personnel.

(4) Natural disasters.

The warranty is for the PLC only, any damage caused to third party equipment by malfunction of the PLC is not covered by the warranty.

O Repair

Any examination or repair after the warranty period is not covered. And within the warranty period any repair and examination which results in information showing the fault was caused by any of the items mentioned above, the repair and examination cost are not covered. If you have any questions regarding the warranty please contact either your supplier or the local Hitachi Distributor. (Depending on failure part, examination might be impossible.)

O Ordering parts or asking questions

When contacting us for repair, ordering parts or inquiring about other items, please have the following details ready before contacting the place of purchase.

- (1) Model
- (2) Manufacturing number (MFG no.)
- (3) Details of the malfunction

Warning

- (1) This manual may not be reproduced in its entirety or any portion thereof without prior consent.
- (2) The content of this document may be changed without notice.
- (3) This document has been created with utmost care. However, if errors or questionable areas are found, please contact us.

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Safety Precautions

Read this manual and related documents thoroughly before installing, operating, performing preventive maintenance or performing inspection, and be sure to use the unit correctly. Use this product after acquiring adequate knowledge of the unit, all safety information, and all cautionary information. Also, make sure this manual enters the possession of the chief person in charge of safety maintenance.

Safety caution items are classified as "Danger" and "Caution" in this document.



Cases where if handled incorrectly a dangerous circumstance may be created, resulting in possible death or severe injury.



: Cases where if handled incorrectly a dangerous circumstance may be created, resulting in possible minor to medium injury to the body, or only mechanical damage.

However, depending on the circumstances, items marked with



CAUTION may result in major accidents.

In any case, they both contain important information, so please follow them closely.

Icons for prohibited items and required items are shown below:

: Indicates prohibited items (items that may not be performed). For example, when open flames from hibited, is shown.



: Indicates required items (items that must be performed). For example, when grounding must be performed,

is shown.

1. About installation

- Use this product in an environment as described in the catalog and this document. If this product is used in an environment subject to high temperature, high humidity, excessive dust, corrosive gases, vibration or shock, it may result in electric shock, fire or malfunction.
- Perform installation according to this manual. If installation is not performed adequately, it may result in dropping, malfunction or an operational error in the unit.
- Do not allow foreign objects such as wire chips to enter the unit. They may become the cause of fire, malfunction or failure.

2. About wiring

REQUIRED

• Always perform grounding (FE terminal).

If grounding is not performed, there is a risk of electric shocks and malfunctions.

▲ CAUTION

- Connect power supply that meets rating. If a power supply that does not meet rating is connected, fire may be caused.
- The wiring operation should be performed by a qualified personnel. If wiring is performed incorrectly, it may result in fire, damage, or electric shock.

3. Precautions when using the unit

DANGER

- Do not touch the terminals while the power is on. There is risk of electric shock.
- Structure the emergency stop circuit, interlock circuit, etc. outside the programmable controller (hereinafter referred to as PLC).

Damage to the equipment or accidents may occur due to failure of the PLC.

However, do not interlock the unit to external load via relay drive power supply of the relay output module.

• When performing program change, forced output, RUN, STOP, etc., while the unit is running, be sure to verify safety.

Damage to the equipment or accidents may occur due to operation error.

• Supply power according to the power-up order. Damage to the equipment or accidents may occur due to malfunctions.

4. About preventive maintenance

DANGER

Do not connect the ⊕, ⊖ of the battery in reverse. Also, do not charge, disassemble, heat, place in fire, or short circuit the battery.

There is a risk of explosion or fire.

• Do not disassemble or modify the unit. These actions may result in fire, malfunction, or malfunction.

▲ CAUTION

• Turn off the power supply before removing or attaching module/unit. Electric shock, malfunction or failure may result.

No.	Description of Revision	Date of Revision	Manual Number
1	First release	2004/11	NJI-455(X)

Revision History

Chapter 1 Introduction

1.1 Before Using the Products

This manual provides instructions on how to use the EH-150 series programmable controllers (hereinafter as PLC), DeviceNet master Configuration software (EH-RMDCFG).

Please read this manual thoroughly and refer to it during installation and operation as well as during maintenance and inspection.

In addition, refer to the relevant manual of the PLC main unit when actually using the PLC system.

Item	Item Related manual name	
Main system of EH-150	EH-150 Application Manual	NJI-281*(X)
Programming Software LADDER EDITOR (for MS-DOS) (Windows®95/98/NT)		NJI-342*(X) NJI-343(X)
DeviceNet modules	EH-150 DeviceNet Application manual	NJI-364*(X)

Table 1.1 List of related manual

Please refer to the manual with the appropriate manual number, where "*" is A or higher. ("*" indicates the version of the applicable manual; the version number increases in alphabetic sequence, i.e., starting with A, B, C, and so on.)

1.2 Packaged Items

The following files are packaged in the installation CD. Please verify that each files is included by your PC.

Install Disk (CD)1 pcs(1)Install program2)Application manual (Japanese)(3)Application manual (English)

D:¥MANUALS¥Japanese D:¥MANUALS¥English

1.3 System requirements

(1)PC

OS:Windows 95/98/2000/ME/NT4.0/XP RAM:128MB or more HDD:10MB of free space on the hard drive (Application program) CD-ROM drive RS-232C port Internet Explorer 5.0 or higher

(2)PLC

- 1] EH-150 PLC (set)
- 2] DeviceNet cable
- 3] RS-232C Communication cable
- 4] DeivceNet Power
- 5] Termination register $121(120)\Omega$
- 6] DeviceNet slave(1 pcs or more)



This configuration software is supported by EH-150 DeviceNetTM master module (EH-RMD) of software ver.03 or more.

	EH-RMD Software version		
Configuration software	SOFTWARE VER.02 or less	SOFTWARE VER.03 or more	
EH-RMDCFGE	Not supported	supported	
$RSNetWorx^{\rm TM}$ for $DeviceNet^{\rm TM}$	supported	supported	

1.4 Installation



(4) InstallShield Wizard will start. If you accept the License Agreement, please click [Yes].	InstallShield Wizard License Agreement Please read the following license agreement carefully. Press the PACE DOWN key to see the rest of the agreement
	Hitachi EH-150 series EH-RMD configuration software EH-RMDCFG End-User License Agreement 1.License (1) You can use the Software on one single computer at any time. (2) You can make only one copy of the Software for saving purposes. 2.Prohibition (1) You may NOT have another party modify, adapt, translate the Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install EH-RMDCFG, you must accept this agreement. InstallShield Kerk Yes No

(3) Default of destination location is "C:¥ProgramFiles¥Hitachi¥ EH-RMDCFG"	InstallShield Wizard Choose Destination Location Select folder where Setup will install files.
To install to this folder, click [Next]. To install to a different folder, click [Browse] and select another folder.	Setup will install EH-RMDCFG in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
	Destination Folder C:¥Program Files¥Hitachi, Ltd¥EH-RMDCFG Browse
	InstallShieldCance



1.5 Uninstallation

(1)	
Open [Start]-[Setting]-[Control	Add/Remove Programs Properties
Panel].	Install/Uninstall Windows Setup Startup Disk
(2)	
Execute	To install a new program from a floppy disk or CD-ROM
"Add/Remove Programs".	
(3)	
Select EH-RMDCFG and click	<u>Install</u>
[Add/Remove].	· · · · · · · · · · · · · · · · · · ·
	Ihe following software can be automatically removed by
	Windows. To remove a program or to modify its installed components, select it from the list and click
	Add/Remove.
	Adobe Acrobat 4.0
	AHF
	CIF Device Driver
	EhOpper
	EH-KMDUEG EH-VIEW
	ETH2_IP_Address
	Ethereal
	Add/ <u>R</u> emove
	OK Cancel Apply

(4)	InstallShield Wizard
InstallShield Wizard will start.	
Select Remove and click [Next].	Modify, repair, or remove the program.
(5)	Welcome to the EH-RMDCFG Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.
When confirmation window is	C Modify
displayed, lick [OK].	Confirm File Deletion
	Do you want to completely remove the selected application and all of its components?
	Remove Remove all installed components. Installed Provided Action Installed Components. Installed Components.
	< Back (Next >) Cancel

(6) When uninstallation was finished, click [Finish].	InstallShield Wizard Maintenance Complete InstallShield Wizard has finished performing maintenance operations on EH-RMDCFG.
	< Back [Finish] Cancel

Chapter 2 Configuration

In order to operate DeivceNet, the information of each slave must be registered in EH-RMD.

 Off-line setting: Registration information is created before building up the network.
 On-line setting: All slaves must be connected to the network. EH-RMDCFG reads out information from those slaves.

The configuration can be done by either (1) or (2).

2.1 Off-line setting

STEP1: Start EH-RMDCFG

Click [Start]-[Programs]-[EH-RMDCFG]-[EH-RMDCFG].

STEP2: Open new file

Input the "Network Name", and click [OK].

EH-RMDCFG	<u>_</u> _×
<u>Eile View Tools H</u> elp	
DeviceNet Hardware	
Hitachi, Ltd.	
HMS Industrial Network Name ?	
Comron Corporation	
Rockwell Automation OK Cancel	

If you have already working data, click [Cancel], and open the file by choosing [File]-[Load NetWork from file]

When the list of "DeviceNet Hardware" is not displayed, click [View]-[Show Hardware].

STEP3: Registration of the device

Drag and drop a necessary device from left side to right side with setting node address (Mac ID). Master module is always necessary.



EH-RMD has two different mode, either Link mode or Remote mode.

STEP4: Registration of EDS file

If slave module to use is not displayed in "DeviceNet Hardware", EDS file must be registered EDS Wizard will start by clicking [Tools]-[Install EDS-file]. Click [Next] and proceed to the next step. When the registration finished, new icon is created to "DeviceNet Hardware".

		<u>- </u>
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp		
D 🗲 🗉 🗟 🛒 🕫	EDS	
DeviceNet Hardware	Untitled1	
🖃 😱 Hitachi, Ltd.	Eds Wizard	
🖃 🚸 AC Drive		
🛛 🕺 🔬 SJ100D		
📄 🚽 Communication	 Install EDS from file 	
🚽 ЕН-ЮС	C Create EDS from device (on-line mode only)	
👖 🕺 ен-вм		
📲 🥂 ен-вм		
📕 🝼 ЕН-ВМ		
📄 🛷 General Purpos		I
📗 📄 RD×16		
RDY16	Next > Cancel	

STEP5: Make Scan List

EH-RMDCFG	
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp	
DeviceNet Hardware Scanner EDS	
Hitachi, L ScanList Input Dutput	
🗕 🚸 A(Available Added	
👘 🗸 📲 0, EH-RMD(Link) (Slav 🛛 📲 1, EH-IOCD	
2, RDX16D	EH-IOCD
🖃 🥂 Cd 👔 3, RDY16R	
🗧 🚅 Load 🛛 🖓 Upload 🛛 🖓 Edit Slave	
	RDX16D
Grave Download Close	
Scan Interval (ms) : 10 🛨 EPR (ms): 75 🗲	
Background Poll Ratio : 1 👤	
Node 0 in Untitled1	
	J

Double click the master icon. Then property window will appear.

Double-click slave modules displayed in [Available].

Then another window for setting communication type and I/O size is displayed. Check if it is correct setting, and click [OK].

If no information is set or should be changed, set communication type and I/O size.

Node: 2 RDX	16D		×
Bit Strobed			
Rx(bytes)	0 🚖	Enable Tx Strobe	e Bit 🗖
Polled			
🔽 Enable			
Rx(bytes)	2 🔹	Poll every scan cy	ocle 💌
Tx(bytes)	0 🚖		
-Change Of Sta	te/Cyclic		
🗖 Enable	🖸 Ci	hange Of State 🛛 Cyr	elie
Rx(bytes)	0 🚖	Heart Beat Rate(m	s) 48 主
Tx(bytes)	0 🛨	Ack Time(ms)	0 🗲
		Inhibit Time	0 🗲
Identity Verification Keys			
🔽 Vendor	Id 🗖 P	roduct Type 📃	Product Code
Active Nod	le [<u>0</u> k	C <u>a</u> ncel

EH-RMD (Link or Remote) (Slave Mode) displayed in [Available] is used as a slave module with another master.

When EH-RMD (Link or Remote) is used as a master, do not register in this window.

STEP6: Mapping of I/O data

I/O mapping is configured in each slave.

Click the slave displayed in "Node", and click [AutoMap] for both the "input" tab and the "output" tab.

By setting Word Offset, I/O table is freely mapped. **(ONLY FOR LINK MODE)** Bit Offset is invalid. Leave it as 0.



When the mapping of all nodes is completed, close the property window of the master.

STEP7: Save configuration data

Save configuration data by choosing [File]-[Save All] If system configuration is changed, this saved data should be modified accordingly.

STEP8: Data transfer to the EH-RMD

Transfer the scan list data to EH-RMD. Refer to the chapter 2.2 "On-line setting" for further information.

2.2 On-line setting

Set up PLC and network system before configuration.

Necessary environment condition is described in chapter 1.3.

Power must be supplied to PLC and **slave modules too** since EH-RMDCFG communicates with all modules in the network.

Even if all modules are not be prepared, connect one slave at least.



STEP1: PLC Set up

(1) I/O assignment

Start Ladder Editor for Windows®, make I/O assignment for the EH-RMD.

I/O Assignment Table						
Type(<u>S</u>):	Standard		•			
I/O Assigr	nment Table					
	Unit 0	Unit 1	Unit 2	Unit 3	Unit 4	
Slot0	CPU link	Empty 16				
Slotl	Empty 16	l pty 16				
Slotž	Empty 16	Empty 16				
Slot3	Empty 16	Empty 16				
Slot4	Empty 16	Empty 16				
Slot5	Empty 16	Empty 16				
Slot6	Empty 16	Empty 16				
Slot7	Empty 16	Empty 16				
Slot8						

I/O assignment of "CPU link" is for EH-RMD link mode, "Remote 2" is for EH-RMD remote mode.

(2) Operation Parameter (Only LINK mode)
Click the Link No. to use.
Top assign No. should be fixed as WL0/WL1000.^(*1)
Last assign No. should be fixed as WL1FF/WL11FF.^(*1)

Operation Parameter	×
Coperation Control	Transmission Mode in Error Condition
Definition of Input(E)	Remote I/O Assign(R): Not Transmit 💌
Input I/O No.(<u>D</u>):	Remote Substation Error(C): Not Transmit
Delay Check Time	CPU Link Parameter
Setting Value(): 10 X10ms	✓ No.1 Link(1)
Operation Mode in Error Condition	Top Assign No.(<u>S</u>) WL
I/O Assign Unmatched(): Not Operate 🔻	Last Assign No.(E) WL
Add Unit Error(II): Not Operate	▼ No.2 Link(2)
	Top Assign No.(A) VVL
Remote Error(<u>M</u>): Not Operate 💌	Last Assign No.(N) WL
	[Execute⊗] Cancel

*1: When mounting two modules having I/O assignment of "CPU Link", left module is Link No.1.

After downloading I/O assignment to CPU module, check the indication of "STATUS" LED on the EH-RMD. Link mode : Solid Green Remote mode : Solid Green or 4 times flash Green In case of remote mode, after scan list is configured in RMDCFG, it is necessary to assign Remote stations again. After downloading I/O assignment CPU module, close Ladder Editor or enter off-line mode (GRS). STEP2: Start EH-RMDCFG

Click [Start]-[Programs]-[EH-RMDCFG]-[EH-RMDCFG].

STEP3: Open new file

Input the "Network Name", and click [OK].

EH-RMDCFG	
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp	
DeviceNet Hardware	
Hitachi, Ltd.	
HMS Industrial Networks	
NetWork Name ?	
Name:	
Untitled	
OK Cancel	

If you have already working data, click [Cancel], and open the file by choosing [File]-[Load NetWork from file]

 $STEP4 \hbox{:} Serial port setting/connection$

Click [Tools]-[Configure Driver], and click [OK] in Dialog window.

EH-RMDCFG	_ 🗆 🗵
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp	
DeviceNet Hardware Untitled1	
Hitachi, Ltd.	
HMS Industrial Networks	
Driver Dialog	
Select a Driver	
🐗 EH150 DeviceNet driver Ver:1. 0	
NetWork Offline	

When "EH-150 Driver Paths" window is displayed, click [Create]. Previous path names are listed.

EH-150 Driver Paths		
Configured Paths		
Path Name	Туре	Path Id
👦 Create 🏻 🍱 Configure 🛛 🐼 Delete	🗶 Can	cel 🛛 🖌 OK

[Create]: New [Configure]: modifying the setting [Delete]: delete

Input path name for every communication setting, and click [OK].

Path Name 🗙	
Please supply a name for the new path: My new path	For easy understanding Ex: "COM1 19200 Own Slot0"
OK Cancel	

Input "Comport", "Baud rate", "Network Address", and "Slot No.". Click [OK].



When "Path Configuration" window is closed, EH-RMDCFG will go on-line mode.

STEP5: On-line mode

When on-line connection is established, the following window appears. Click [OK].

EH-RMDCFG Eile View Tools Help DeviceNet Hardware Hitachi, Ltd. HMS Industrial Networks	ed1 EH-RMDCFG Eile View Tools Help DeviceNet Hardware	The ICON will be
		changed.
Confirm NetWork conn	ction established, press OK to update NetWork !	X
Net	lork Offline	

When on-line connection is failed, the icon is not changed and "Confirm" window does not appear. Check "communication port", "baud rate", "network address", and Slot No. again. When NS LED of EH-RMD is not lighting, on-line connection is not established. STEP6 : Browsing network

After on-line connection, EH-RMDCFG reads out the information of devices connected to network. During the Browsing, the indicator will be displayed in the lower part of the window. When the indicator will disappear, the Browsing is finished. (Maximum 2 minute) It takes a few seconds before the indicator is displayed.



STEP7: Registration of EDS file

If the browsed device's EDS file is not registered in RMDCFG, the device is displayed with the icon as shown below screen shot.

In this case, EDS file must be registered.

Double click the icon, follow the EDS wizard and create EDS file.

In on-line mode, EDS file is created by reading out information from the device.



STEP8: Make Scan List

Double click the EH-RMD. Confirmation window appears (upload or not), click [No].

When clicking [Yes], the configuration data will be uploaded from EH-RMD. Then current the configuration data will be overwritten and lost. Please click [No] for making new configuration data or already made in OFF-line mode.

EH-RMDCFG
<u>File V</u> iew <u>T</u> ools <u>H</u> elp
DeviceNet Hardware Untitled1
Hitachi, Ltd.
HMS Industrial Networks
U 1 EH-RMD(REMOTE) EH-IOCD
Confirm X
The scan list may not be synchronized, do you want to upload this before entering?
<u>Yes</u> <u>N</u> o
NetWork Online

When the property window of EH-RMD appears, make scan list according to STEP5,6 in chapter 2.1.

STEP9: Downloading Scan List

In "Scanlist" tab of property window, click [Download].

👬 EH-RMD(Link)	×
Scanner EDS	
ScanList Input Dutput	
Available Added	
at 0, EH-RMD(Link) (Slav at 1, EH-IOCD	
2, RDX1 Scanlist Upload/Download progress	
3, RDY1 Writing record No :17	
Cancel	
🕞 Save 🖞 Download 🗧 Close	
Scan Interval (ms): 10 🗲 EPR (ms): 75 호	
Background Poll Ratio : 1 🚖	
Node 0 in Untitled1	

After downloading, scan list configuration is completed. When the EH-RMD is Link mode, the necessary setting is finished. When the EH-RMD is Remote mode, additional setting is necessary. Refer to the chapter 2.3.

2.3 I/O assignment (Remote station)

When EH-RMD is used in Remote mode, it is necessary to configure the I/O assignment of Remote stations in programming software based on scan-list information.

(1) Reading Mounted I/O

Start LADDER EDITOR or programming software and read out I/O assignment from the DeviceNet via CPU module by choosing [Utility]-[I/O assignment]-[Mounted I/O].

Type(<u>S</u>):	Remote Mas	ster Station 1					
I/O Assigr	nment Table						
	Station 0	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6
Slot0	Bit ¥ 16				Bit X 16		
Slotl	Bit ¥ 16				Bit X 16		
Slotž	Bit ¥ 16				Bit X 16		
31ot3	Bit ¥ 16				Bit X 16		
Slot4	Bit ¥ 16				Bit X 16		
31ot5	Bit ¥ 16				Bit X 16		
Slots	Bit ¥ 16				Bit X 16		
Slot7	Bit ¥ 16				Bit X 16		
Slot8							
31ot9							
SlotA							
SlotB							
SlotC							
SlotD							
SlotE							
SlotF							
SlotF	01-44					+	

Check the I/O size of configured slaves on EH-RMD. Download to the CPU module by clicking [Execute].

2.4 Word Offset

There are various I/O sizes available for DeviceNet slave modules. The mapping example of odd byte is described as below.

If 1 byte device and 2 byte device are used together, 2 byte data can be mapped in 2 words. (see example 1) To avoid this, it is easy to map as 2 byte device at first. (see example 2) Besides this, each device can be mapped flexibly by using Word Offset. **(ONLY FOR LINK MODE)** (see example 3)

EH-RMD (Lin	k)			<u>></u>
Scanner <u>E</u> DS				
<u>S</u> canList <u>I</u> nput	0utput			
Node	Туре	Rx	Мар	
📋 1, 1790D	Poll	1	Yes	AutoMap
3, RDX16D	Poll	2	Yes	
) 5, 1790D	Poll	1	Yes	UnMap
				-
Word Offset : 0	🕏 Bit O	ffset: 0	No.1LIN	< ?
0 1	2 3 4	5 6 7 8	9 10 11	12 13 14 15 🔺
WL200 <u>1,179</u>	0D 8 Universal In	/8 Sink Out, Pol	3, RD)	×16D, Poll
WL201	3, RDX16D,	Poll 5	, 1790D 8 Unive	rsal In/8 Sink Out, Pol
WL202				
WL203				
WL204				
WL205				
WL206				
WL207				<u>•</u>

Ex.1 Straddling on Two words

👬 EH-RMD(Linl	k)			×
Scanner <u>E</u> DS				
ScanList Input	0utput			
Node	Туре	Rx	Мар	
1, 1790D	Poll	1	Yes	AutoMap
) 3, RDX16D	Poll	2	Yes	
5, 1790D	Poll	1	Yes	UnMap
	-			
Word Offset : Ju	Bit O	ffset: J ^u 2		<u> </u>
0 1	2 3 4	5 6 7 8	9 10 11	12 13 14 15 🔺
WL200		3, RDX16), Poll	
WL201 <u>1,179</u>	UD 8 Universal In/	'8 Sink Uut, Pol <mark>j 5</mark> ,	1790D 8 Universa	I In/8 Sink Uut, Pol
WL202				
WL203				
WL204				
WL205				
WL206				
JWL207				_ _
Node 0 in Untitled	1			

Ex.2 Changed the order

TEH-RMD(Lin	k)			×	1
Scanner <u>E</u> DS					
<u>S</u> canList <u>I</u> nput	0utput				
Node	Туре	Bx	Мар	[
🗎 1, 1790D	Poll	1	Yes	AutoMap	
3, RDX16D	Poll	2	Yes		
) 5, 1790D	Poll	1	Yes	UnMap	
Word Offset : 0 0 1 WL200 1,179 WL201 WL202 5,179 WL202 5	Bit 0 2 3 4 0D 8 Universal In 0D 8 Universal In	Iffset : 0 5 6 7 /8 Sink Out, P 3, RD /8 Sink Out, P	No.1LINK 8 9 10 11 10 ×16D, Poll	₹ ? 12 13 14 15 ▲	Set 1 in Word Offset, select the device, and click [AutoMap].
WL204 WL205 WL206				Set 2 in V select the and click	Word Offset, e device, : [AutoMap].
ode 0 in Untitled	1				

Ex.3 Using Word offset (Only LINK mode)

Chapter 3 Additional function

In this chapter, additional function of this tool is described.

3.1 Printing function

Scan-list can be printed out as following example.

(1)Master property: The information of Scan List is displayed.

Reference State: Name: Untitled1 Date:2004/05/27	
	<u> </u>
Name: Untitled1 Date:2004/05/27	
Node: 0 🎢 Product Name :EH-RMD(Link)	
Scanlist Summary	
Node Active Key Input Output Size Mapped Size	Mapped
1 Yes 8 Yes 8 2 Yes 2 Yes 2	No No
Input Memory Mappping	
Node Lenght(bit) Offset MessageType	
1 64 WL200.0 Poll 2 16 WL204.0 Poll	
Output Memory Mappping	
Node Lenght(bit) Offset MessageType	
1 64 WL0.0 Poll	
0% Page 1 of 5	

(2)Each slave property: The parameter which each slave has is displayed.

Name: Untitled1_new.NET Date:2004/10/19		- - ×
	Close	
		<u> </u>
Name: Untit	led1_new.NET Date:2004/	10/19
Node: 1 👔 Product Name : Li	LOODN	
_		
Parameters		
Parameter Name	Parameter Value	
1: Rated Capacity	0.2KW	
2: RatedInput/Offage	0 λ	
4. Statue	0 4	
5: Output Frequency	0 Hz	
6: OutputCurrent	0 A	
7: RunningDirection	00:Stopped	
8: InputTerminal	Terminal1	
9: OuntupTerminal	0	
10: ConvertedMonitor	o	
11: CumulativeRunHours	0	
12: PN Voltage	0 V	
13: BRD OnTime	0 %	
14: CumurativeE-Thermal	0 %	
15: TotalTripCount	0	
16: TripCause1	0	
17: TripFrequency1	0 Hz	
18: TripCurrent1	0 A	
19: TripPNVoltage1	0 V	
		F
0% Page 2 of 6		

To display the actual parameter in slaves, it is necessary to uploading the parameter from each slaves.

3.2 Slave prameter setting/monitoring

Inverter or servo drives, etc. have a function to read or write parameters by using Explicit message. This tool provides easy interface to read or write the parameters.

SJ100DN		X
Parameter <u>E</u> DS		
All Parameters		_
24: TripPNVoltage2	ر ٥٧	
25: TripRunHours2	0	
26: TripCause3	0	
27: TripFrequency3	0 Hz	RED colored data is
28: TripCurrent3	0 A 0	"monitoring" only.
29: TripPNVoltage3	0 V	
30: TripRunHours3	0)	
31: MaximumFrequency	60 Hz	
32: BaceFrequency	60 Hz	
33: StartFrequency	0.5 Hz	"setting" and "monitoring
34: FrequencyUpperLimiter	0 Hz	
net et al annual an		
🖆 Load 🛛 🔶 Uploa	ad <u>? P</u> a	ram Help
⊡ Save ∳ Downlo	bad 📘	Close
Node 1 in Untitled1		

The information about these parameters must be specified in EDS file.

When EDS file is created and registered by RMDCFG in on-line mode, those parameter information is not created. Be sure to use and register official EDS file provided by each vendor.

Chapter 4 Troubleshooting

In this chapter, torubleshooting of this tool is described.

[1] Can't ON-line

The ICON of OFF-line state

EH-RMDOFG	
<u>File V</u> iew <u>T</u> ools <u>H</u> elp	_
D 🖻 日 🚳 📕 🖉 ⊄	EDS T

The ICON of ON-line state

EH-RMDCFG		
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp		
	2 ³⁴ 🗘 EI	os 🕂

When not changing into ON-line state, the ICON doesn't become like the above figure. In this case, please check the following item.

- 1) Communication setup is right. Please set up correctly the slot No. in which EH-RMD is mounted.
- 2) SOFTWARE VER. of EH-RMD is 03 or more.
- 3) "NS" LED of EH-RMD is solid GREEN or FLASHING GREEN.

[2] Can't Upload/Download

When Upload/Download processing doesn't progress, please go to OFF-line state once and go to ON-line again.