User's Manual

Symbol Editor



Foreword	This user's manual describes the Symbol Editor's handling precautions, functions, operating procedures, and other important information for use of the software. To ensure correct use, plea120 110 se read this manual thoroughly during operation. After reading this manual, keep it in a convenient
	location for quick reference in the event a question arises during operation. Furthermore, for the handling precautions, functions, and operating procedures of the DL series, or for the handling and operating procedures of Windows, please see the manuals for those respective products.
Notes	
	 The contents of this manual are subject to change without prior notice as a result of improvements in performance or functionality. Display contents illustrated in this manual may differ slightly from what actually appears on your screen.
	 Every effort has been made in the preparation of this manual to ensure the accuracy of its contents. However, should you have any questions or find any errors, please contact your nearest YOKOGAWA representative as listed on the back cover of this manual.
	 Copying or reproduction by any means of all or any part of the contents of this manual without permission is strictly prohibited.
	• This software creates data files compatible with the SB5000 series and DL9500/DL9700 series.
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Revisions	

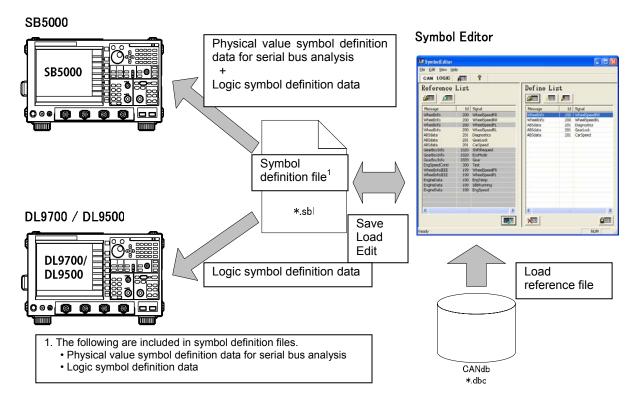
• 1st Edition January, 2008

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Product Overview

Functions



Create and Edit Physical Value Symbol Definition Files for SB5000 Series Serial Bus Analysis

You can create physical value symbol definition files for serial bus analysis. Created files can be saved for use on the SB5000. Saved files can be loaded and edited.

Import CANdb Files

You can load CANdb files and create physical value symbol definition files for the SB5000.

Create and Edit Logic Symbol Files for the SB5000, DL9700, and DL9500 Series

You can create logic symbol definition files that can be used on the SB5000, DL9700, and DL9500 series. Created files can be saved for use on the SB5000, DL9700, and DL9500 series. Saved files can be loaded and edited.

Search for Registered Messages

You can search created or loaded data for registered messages.

System Requirements

Personal Computer A personal computer (PC) is required that is running Windows 2000 SP4 or later, Windows XP SP2 or later, or Windows Vista, having a Pentium 4, 2 GHz or faster CPU and 512 MB or more (1 GB or more recommended) of memory. Display Display: SVGA/XGA (XGA or better recommended) Colors: 65536 or more The display must be compatible with Windows 2000 SP4 or later, Windows XP SP2 or later, or Windows Vista. Mouse A mouse that is compatible with Windows 2000 SP4 or later, Windows XP SP2 or later, or Windows Vista.

DL Series and Firmware Able to Load Symbol Definition Files (*.sbl)

DL9700/DL9500 series: Version 4.00 or later SB5000 series: All firmware versions

Important Information for Users

Disclaimers

By downloading and installing this software, the customer agrees to all of the following disclaimers.
Yokogawa bears no liability for any problems occurring as a result of downloading or installing this software.

- Yokogawa bears no responsibility for any damage caused directly or indirectly as a result of using this software.
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Usage Precautions

• If the PC enters a standby mode (a feature that may have been installed), this software may not be able to run continuously. Be sure to turn off the PC's standby mode.

Installing and Uninstalling the Software

Installing

- 1. Download the Symbol Editor from the Yokogawa Web site. Save the file to an appropriate location on the PC.
- 2. The downloaded file is compressed. Decompress the file using a suitable decompression program (such as WinZip). The Symbol Editor folder is created.

Uninstalling

1. Delete the Symbol Editor folder.

1.1 Starting and Exiting the Program

Starting the Program Double-click Symbol Editor.exe to start the program. The window below is displayed.

🔎 SymbolEditor				
<u>File E</u> dit <u>V</u> iew <u>H</u> elp				
CAN LOGIC		 		
Reference L	ist	Define Li	st	
Message	Id Signal	Message	Id Sign	al
		×		Ê
Ready				NUM /

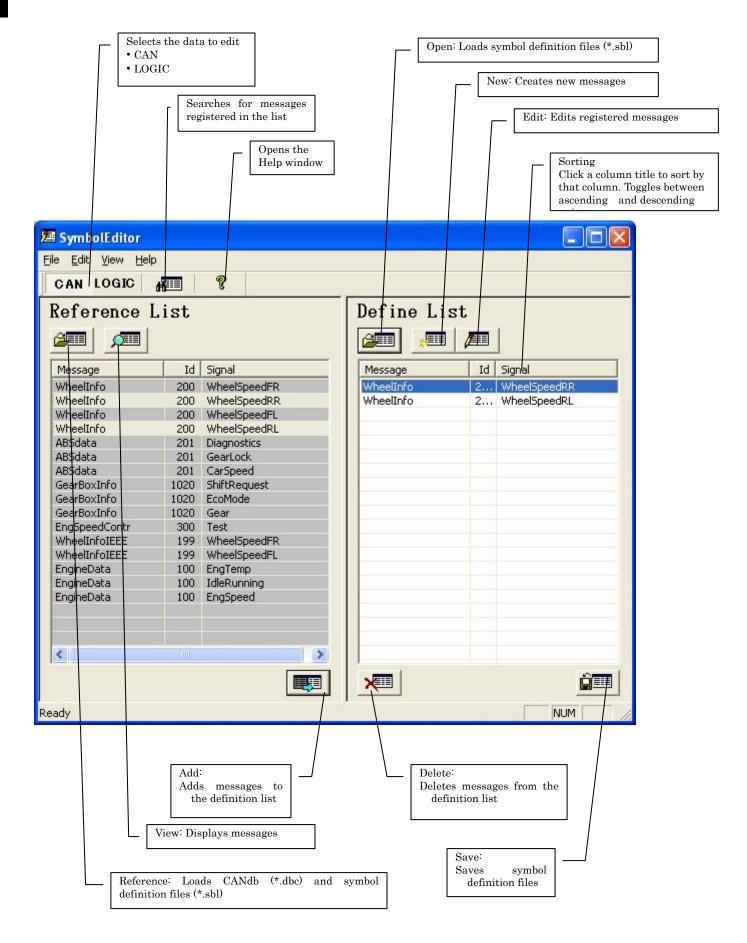
Loads files as reference data.

Edits definition data.

Exiting the Program

Click File > Exit.

1.2 Basic Operations in the Main Screen



2.1 Loading Reference Files

1. In the Reference list, click

, or click **File** > **Reference** to display the Open dialog box.

Open					? 🛛
Look in:	C SymbolE ditor		-	🗢 🗈 💣 🏢	•
My Recent Documents Desktop	easy.dbc	8			
My Documents					
My Computer					
No.					0.000
My Network Places	File name:				Open
	Files of type:	CANdb file (*.dbc)		<u> </u>	Cancel
		CAN db file (*.dbc) Symbol define file (*.sbl)			

2. Type the name of file you wish to open in the File name box or select one from the list, then click **Open**. The messages are displayed in the reference list.

Note:

- If the edit mode is CAN, CANdb (*.dbc) and symbol definition (*.sbl) files can be loaded.
- CANdb files can contain up to 5000 messages.
- If the edit mode is LOGIC, symbol definition (*.sbl) files can be loaded.

2.2 Disp	laying Definitions	
	 In the reference list, select a message then of for displaying definitions. 	click, or click Edit > View to display a dialog box
[CAN] Messag	e and signal parameters 🛛 🔀	
Message name: Frame format: Message id:	STD ZOO C Hex	
Byte count: Signals Signal name:	8 WheelSpeedRR	
Bit order: Start bit: Bit count: Value type:	MSB First H H H H H H H H H H H H H	[LOGIC] Message parameters Message name: Symbol1 Group: 1 Bit count: 3
Scaling Factor: Offset: Unit:	20.000m Maximum: 1.3000k 0.0000 Minimum: 0.0000 1/min 1/min	Bit pattern Hex: \$\$ Bin: 111X1XXX Don't care = "x"
ОК	Cancel	OK Cancel
CAN	Note:	LOGIC
	 The contents of the dialog box di The contents of messages do no CAN 	

Meanings of colors

Green: Bit used by signal in question

Gray: Bit used by other signal (4 gradations express multiple signals)

2.3 Adding Definitions

1. In the reference list, select a message then click , or click Edit > Add. A message is added to the definition list.

Reference	∦≣ List	ę	Define Li	st	
200					
Message	Id	Signal	Message	Id	Signal
WheelInfo	2	WheelSpeedFR	WheelInfo	2	WheelSpeedRR
WheelInfo		WheelSpeedRR	WheelInfo	2	
WheelInfo	2	WheelSpeedFL		19 m r	and the second
WheelInfo	2	WheelSpeedRL			
ABSdata	2	Diagnostics			
ABSdata	2	GearLock			
ABSdata	2	CarSpeed			
GearBoxInfo	1	ShiftRequest			
GearBoxInfo	1	EcoMode			
GearBoxInfo	1	Gear			
EngSpeedContr		Test			
WheelInfoIEEE		WheelSpeedFR			
WheelInfoIEEE		WheelSpeedFL			
EngineData		EngTemp			
EngineData		IdleRunning			
EngineData	1	EngSpeed			

Note:

- You can select one message or multiple messages to add at a time. To select multiple messages, hold down the Ctrl key while clicking each message. When multiple messages are selected, all are added to the definition list together.
- You can add definitions by dragging messages from the reference list to the definition list.
- Up to 500 messages can be registered in the definition list.
- CANdb data of value type Float cannot be added to the definition list.

3.1 Loading Definition Files

1. In the definition list, click **File** > **Open** to display the Open dialog box.

Open					? 🛛
Look jn:	SymbolE dite	r	•	🗢 🗈 💣 📰 •	
My Recent Documents Desktop	sample.sbl				
My Documents					
My Network Places	File <u>n</u> ame: Files of <u>t</u> ype:	Symbol define file (*.	sbl)	<u> </u>	<u>O</u> pen Cancel

2. Type the name of file you wish to open in the File name box or select one from the list, then click **Open**. The messages are displayed in the definition list.

Note:

• Symbol definition files (*.sbl) are loaded.

3.2 New	Definitions	
	1. In the definition list, click , or click E	dit > New to display the dialog box for new definitions.
[CAN] Message	and signal parameters 🛛 🛛 🔀	
Message name:	-	
Frame format:	STD 💌	
Message id:	0 • Decimal C Hex	
Byte count:	8	
Signals Signal name: Bit order: Start bit: Bit count: Value type: Scaling Factor: Offset: Unit:	MSB First	[LOGIC] Message parameters Message name: Group: Bit count: 8 Bit pattern Hex: XX Bin: XXXXXXX Don't care = "x"
ОК	Cancel	OK Cancel
CAN		LOGIC

Note:

- The contents of the dialog box differs depending on the edit mode.
- The characters that can be used in the Message name, Signal name, and Unit boxes are: 0 to 9, A to Z, a to z, %, _, (,), -, and /
- You may not enter a message name that is already assigned to a message.
- Up to 500 messages can be registered in the definition list.
- CAN
- · You may not enter a signal name that already exists within a message.
- Message ID setting range
 - If Frame format = STD, 0 to 2047 (7FF hex)

If Frame format = XTD, 0 to 536870911 (1FFFFFFF hex)

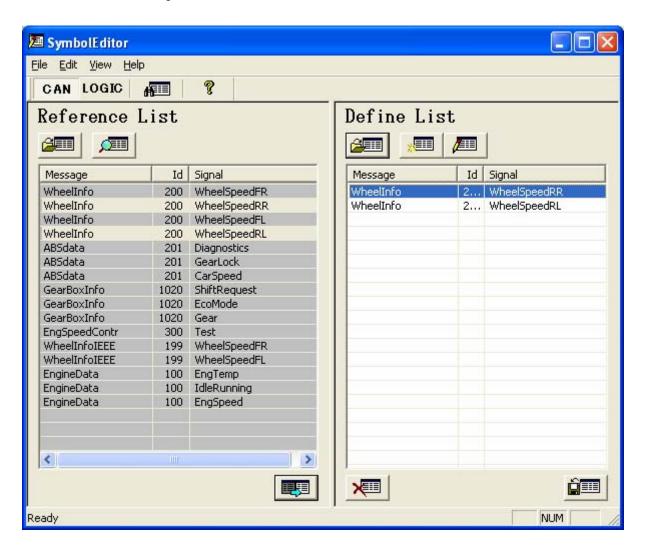
- The byte count setting range is 0 to 8.
 - If 0, the signal cannot be set.
- The signal start bit setting range is 0 to (byte count × 8-1).
- The signal bit count setting range is 1 to (byte count × 8 start bit).
- The maximum number of characters that can be used in the Message name, Signal name, and Unit boxes is 32.
- When creating a new definition, you can copy previously defined message and signal settings from the Message name, Message id, and Signal name lists.
- The usage of bits within the message is shown to the right of the Start bit and Bit count boxes.
 - Meanings of colors
 - White: Unused bit
 - Green: Bit used by signal in question
 - Gray: Bit used by other signal (4 gradations express multiple signals)
 - You can click or drag to select.
- LOGIC
- You cannot create an identical bit pattern to one that already exists in the same group.
- The maximum number of characters that can be used in the Message name box is 16.

	 In the definition list, select a message and for editing definitions. 	click Edit > Edit to display the dialog b
[CAN] Message	and signal parameters	
Message name: Frame format: Message id: Byte count:	WheelInfo STD 200 C Decimal C Hex 8	
Signals Signal name: Bit order: Start bit: Bit count: Value type: Scaling Factor: Offset: Unit:	WheelSpeedRR MSB First Bit 48 Bit 48 16 0 0 Unsigned Little(Intel) 20.000m Maximum: 1.3000k 0.0000 Minimum: 1/min	[LOGIC] Message parameters Message name: Symbol1 Group: 1 Bit count: 8 Bit pattern Hex: \$\$ Bin: 111X1XXX Don't care = "x"
	Cancel	

For precautions when editing definitions, see "Note" in section 3.2.

3.4 Deleting Definitions

1. In the definition list, select messages and click messages are deleted from the definition list.



Note:

• You can select one message or multiple messages to delete at a time. To select multiple messages, hold down the Ctrl key while clicking each message. When multiple messages are selected, all can be deleted from the definition list together.

or click Edit > Delete. The selected

3.5 Saving	g Definiti	ions				
1.	In the definition li	st, click [] , or cli	ck File > S	ave to dis	splay the S	ave As dialog box
Save As						? 🛛
Savejn:	SymbolE ditor		•	🕈 🔁	r 🖾 🛧	
My Recent Documents Desktop My Documents My Computer	sample.sbl					
My Network Places	File <u>n</u> ame:				•	<u>S</u> ave
	Save as <u>t</u> ype:	Symbol define file (*.sbl)			•	Cancel

2. In the File name box, type the name under which you wish to save the file or select a file from the list, then click **Save**. The contents of the definition list are saved to the file.

Note:

• You can save symbol definition files (*.sbl).

4.1 Searching Messages

1. Click

, or click Edit > Search to display the Find dialog box.

Find	
Find List	•
Find Cancel	

2. Enter the string you wish to search for in the Find what box, then click **Find**. The matching location in the specified list is selected and displayed.

Note:

· You can select from a history of previously entered search strings in the list.

4.2 Selecting or Sorting All Items in the List

Selecting All Items in the List

1. Click Edit > All to select all items in the active list.

Sorting All Items in the List

1. Click a column title to sort. Toggles between ascending and descending sort order.

<mark>■ SymbolEditor</mark> jle <u>E</u> dit <u>V</u> iew <u>H</u> e	*lp				
CAN LOGIC	H	8			
Reference	List		Define Li	st 🚈	
Message	Id	Signal	Message	Id	Signal
wheelinfo	200	Wheelopeedrik	wheelinfo	2	WheelSpeedRR
WheelInfo	200	WheelSpeedRR	WheelInfo		WheelSpeedRL
WheelInfo	200	WheelSpeedFL	EngineData	1	EngTemp
WheelInfo	200	WheelSpeedRL	EngineData	1	IdleRunning
ABSdata	201	Diagnostics	EngineData	1	EngSpeed
ABSdata	201	GearLock			
ABSdata	201	CarSpeed			
GearBoxInfo	1020	ShiftRequest	Column titles		
GearBoxInfo	1020	EcoMode			
GearBoxInfo	1020	Gear			
EngSpeedContr	300	Test			
WheelInfoIEEE	199	WheelSpeedFR			
WheelInfoIEEE	199	WheelSpeedFL			
EngineData	100	EngTemp			
EngineData	100	IdleRunning			
EngineData	100	EngSpeed			
					Î
eady					NUM

Note:

• When sorted, ▲ (ascending) or ▼ (descending) is indicated in the title.

5 Other Functions

Version Information

1. Click **Help > About** to display **version information**.

	About Symbol Editor	
	Æ	Symbol Editor Version 1.01 OK Copyright (C) 2008 Yokogawa Electric Corporation
User's Manual 1. Click, or click Help > User's Manual to display the user's manual.		
	Note:	Adobe Reader by Adobe Systems is required to open PDF files. You can Adobe Reader from the following Web page. http://www.adobe.com/jp/

• Viewing the Yokogawa Electric Web Site

1. Click Help > YOKOGAWA Web site > Test & Measurement, or click Help > YOKOGAWA Web site > Symbol Editor. The Yokogawa Web site appears.

Note:

If your PC is connected to the Internet, the Yokogawa Web site is displayed. Test & Measurement: The Yokogawa Test & Measurement home page is displayed. Symbol Editor: The product page is displayed, containing the latest product information including information on version upgrades.

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