
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, please 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. Please keep this manual in a convenient location in case questions arise during operation. Furthermore, for handling precautions, functions, and operating procedures for 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 to the product's performance and functionality. Refer to our website to view our latest manuals.
- The figures given in this manual may differ from those that actually appear 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 dealer.
- 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 following DL series.
DL850/DL850V series, DL850E/DL850EV series, DL350, DL950, DLM2000 series, DLM3000 series, DLM4000 series, DLM5000 series, DLM5000HD series, DL6000/DLM6000 series, SB5000 series, and DL9500/DL9700 series.

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Yokogawa Test & Measurement Corporation

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Article 5: Court with Jurisdiction

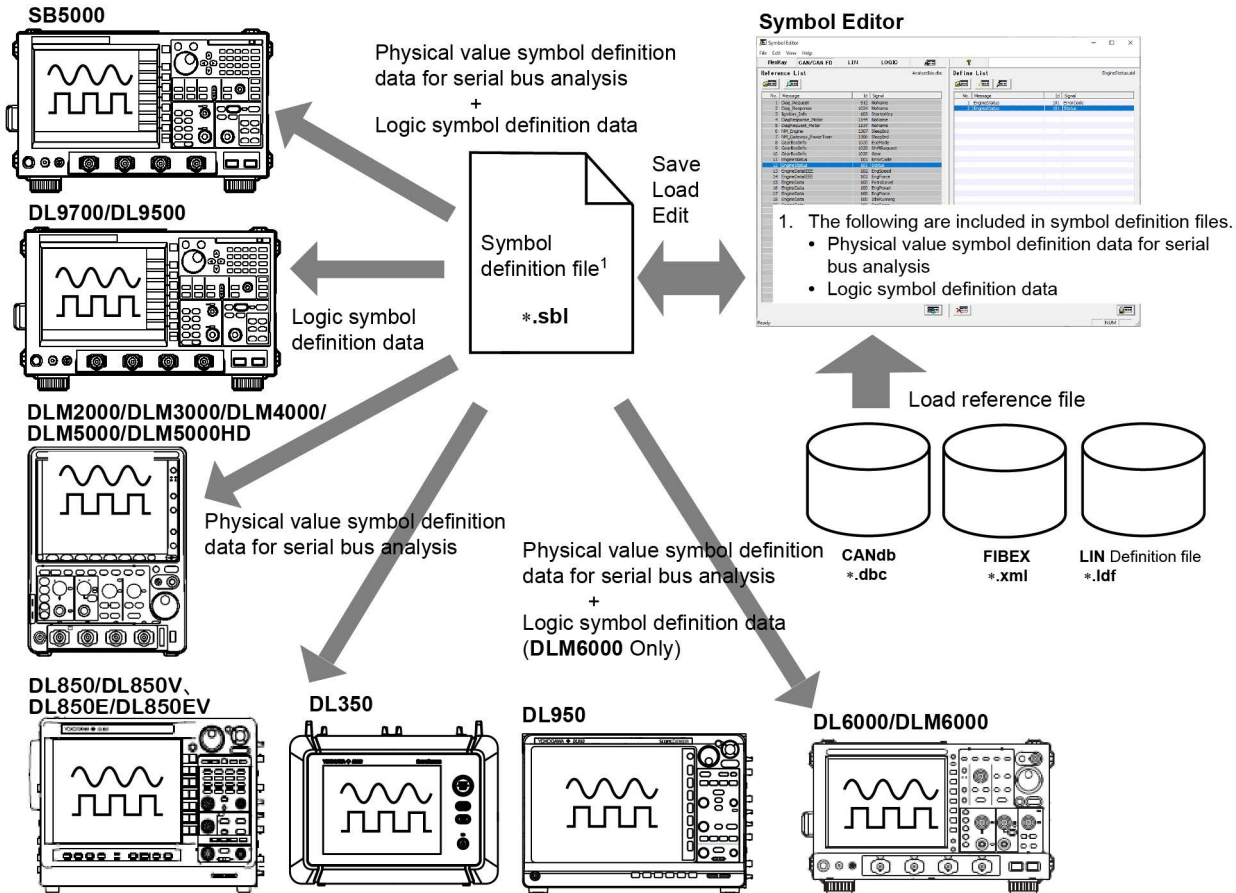
Should a dispute arise as a result of using This Software or in regards to this license agreement, both parties agree to discuss the issue in good faith. If an agreement cannot be reached, the Tokyo District Court shall be the exclusive agreement jurisdictional court of the first hearing.

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Product Overview

Functions



Create and Edit Physical Value Symbol Definition Files for DL850/DL850V, DL850E/DL850EV, DL350, DL950, DLM2000, DLM3000, DLM4000, DLM5000, DLM5000HD, DL6000/DLM6000, and 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 DL850/DL850V, DL850E/DL850EV, DL350, DL950, DLM2000, DLM3000, DLM4000, DLM5000, DLM5000HD, DL6000/DLM6000, and 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 DL850/DL850V, DL850E/DL850EV, DL350, DL950, SB5000, DLM2000, DLM3000, DLM4000, DLM5000, DLM5000HD, and DL6000/DLM6000.

Import LIN Definition Files

You can load LIN definition files and create physical value symbol definition files for the DL850/DL850V, DL850E/DL850EV, DL350, and DL950.

Import FIBEX Files

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

Create and Edit Logic Symbol Files for the SB5000, DLM6000, DL9700, and DL9500 Series

You can create logic symbol definition files that can be used on the SB5000, DLM6000, DL9700, and DL9500 series. Created files can be saved for use on the SB5000, DLM6000, 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 10 or Windows 11 having a Core 2 Duo, 2 GHz or faster CPU and 1 GB or more (2 GB or more recommended) of memory.

Display

Resolution: SVGA/XGA (XGA or higher recommended)
Colors: 65536 or more
A display that is compatible with Windows 10 and Windows 11.

Mouse

A mouse that is compatible with Windows 10 and Windows 11.

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

DL9700/DL9500 series:	Version 4.00 and later
SB5000 series:	All firmware versions
DLM2000 series:	All firmware versions
DLM3000 series:	All firmware versions
DLM4000 series:	All firmware versions
DLM5000 series:	All firmware versions
DLM5000HD series:	All firmware versions
DL6000/DLM6000 series:	All firmware versions
DL850/DL850V series:	All firmware versions
DL850E/DL850EV series:	All firmware versions
DL350:	All firmware versions
DL950:	All firmware versions

Important Information for Users

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.

Note:

Regarding FIBEX(Field Bus Exchange Format)

FIBEX is one kind of common data base (format) used in bus systems such as FlexRay developed by the ASAM consortium when exchanging data and information between nodes (ECU, etc.). It defines data (messages and symbols), information about the sending/receiving nodes, and other information in the xml language.

Installing and Uninstalling the Software

Installing

1. Download 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.

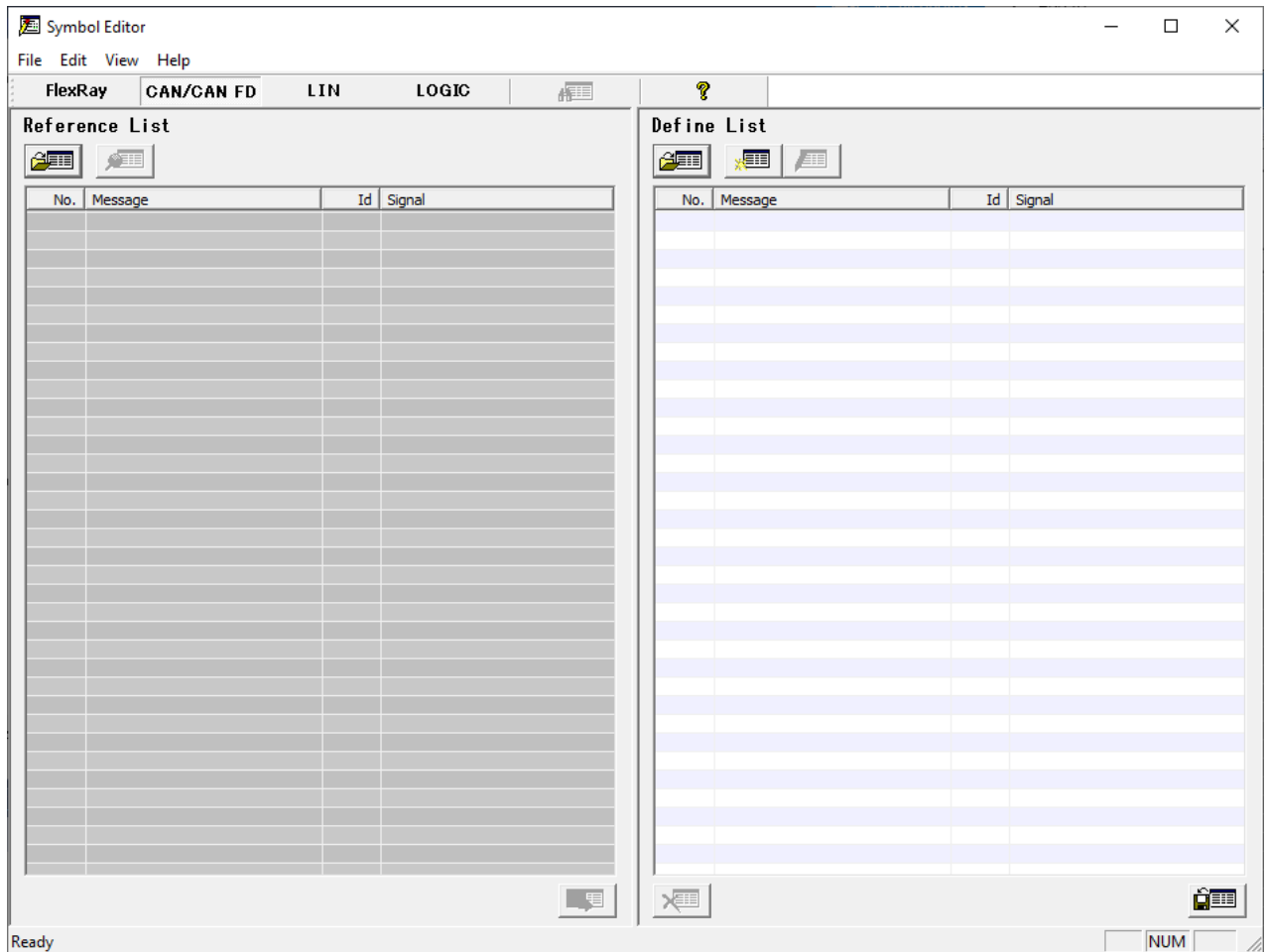
Uninstalling

Delete the Symbol Editor folder and all of its subdirectories.

1.1 Starting and Exiting the Program

- **Starting the Program**

Double-click **Symbol Editor.exe**. The program starts, and the window below appears.



For loading files as reference data.

For editing definition files.

- **Exiting the Program**

Click **File > Exit**.

1.2 Basic Operations in the Main Screen

Changes the data to edit

- FlexRay
- CAN/CAN FD
- LOGIC
- LIN

Search: Searches for messages registered in the list

Displays the Help Window

Open: Loads symbol definition files (*.sbl)

New definition: Creates new messages

Edit definition: Edits registered messages

Sort messages
Click a title without No. in the table to sort in ascending or descending order

Symbol Editor
File Edit View Help

FlexRay CAN/CAN FD LIN LOGIC

Reference List Comfort.dbc

No.	Message	Id	Signal
1	TP_Dashboard	1541	data
2	Diag_Request	1792	NoName
3	Diag_Response	1536	NoName
4	DiagResponse_Motor	1537	data
5	DiagResponse_DoorLeft	1543	data
6	DiagRequest	1542	data
7	TP_Console	1540	data
8	NM_Gateway	1053	SleepInd
9	NM_DOORright	1052	SleepInd
10	NM_DOORleft	1051	SleepInd
11	NM_Console	1050	SleepInd
12	DOOR_r	497	WN_Position
13	DOOR_l	496	WN_Position
14	Console_2	417	Phase
15	Console_2	417	Active
16	Console_2	417	Light
17	Console_1	416	WN_right_up
18	Console_1	416	WN_right_down
19	Console_1	416	WN_left_up
20	Console_1	416	WN_left_down
21	Console_1	416	Mirror_r2d
22	Console_1	416	Mirror_r2u
23	Console_1	416	Mirror_r2r
24	Console_1	416	Mirror_r2l
25	Console_1	416	Mirror_l2d
26	Console_1	416	Mirror_l2u
27	Console_1	416	Mirror_l2r
28	Console_1	416	Mirror_l2l
29	Gateway_2	273	Voltage
30	Gateway_2	273	PetrolLevel
31	Gateway_2	273	EngSpeed
32	Gateway_2	273	CarSpeed
33	Gateway_2	273	EngineTemp
34	Gateway_1	272	Gear

Define List ComfortTestData.sbl

No.	Message	Id	Signal
1	Diag_Request	1792	NoName
2	Diag_Response	1536	NoName
3	DiagResponse_Motor	1537	data
4	DiagResponse_DoorLeft	1543	data
5	DiagRequest	1542	data
6	TP_Console	1540	data
7	NM_Gateway	1053	SleepInd
8	NM_DOORright	1052	SleepInd
9	NM_DOORleft	1051	SleepInd
10	NM_Console	1050	SleepInd

Show definitions: Displays messages

Add definition: Adds messages to the definition list

File name :
The file name to be editing

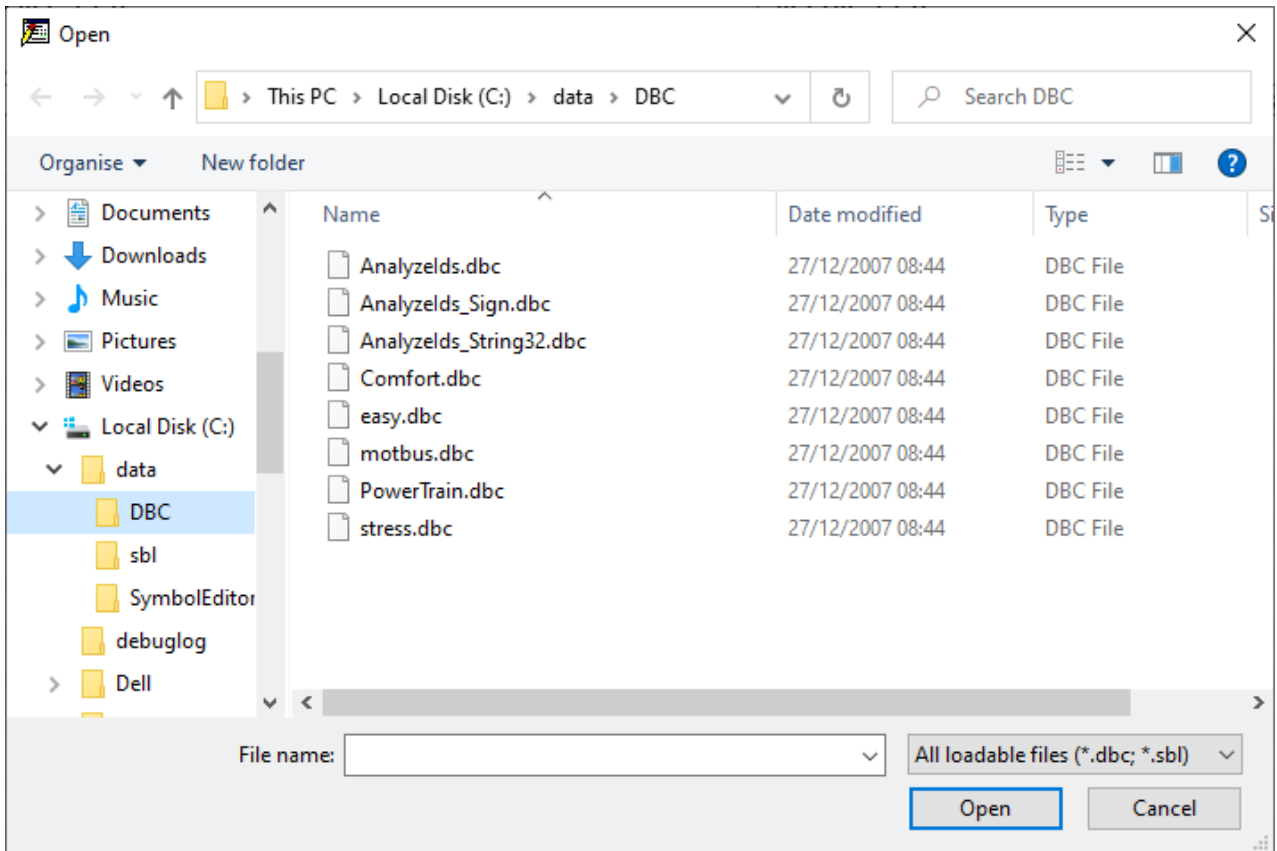
Delete definition:
Deletes messages from the definition list

Save definition:
Saves the symbol definition file

Reference: Load CANdb file (*.dbc)
Load LIN definition file (*.ldf)
Load FIBEX file (*.xml)
Load symbol definition file (*.sbl)

2.1 Loading Reference Files

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




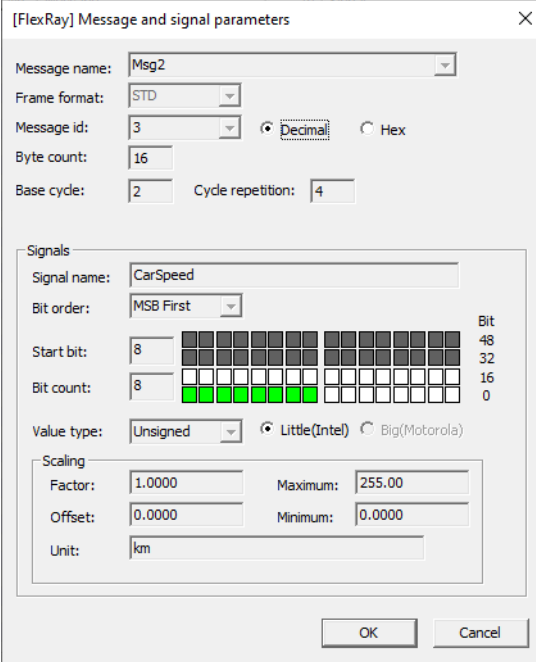
2. Type the name of file you wish to open in the File name box or select one from the list, then click **Open**. The messages are displayed in the reference list.

Note:

- If the edit mode is CAN/CAN FD, CANdb (*.dbc) and symbol definition (*.sbl) files can be loaded.
 - If the edit mode is FlexRay, FIBEX (*.xml) and symbol definition (*.sbl) files can be loaded. FIBEX files are limited to FIBEX v2.x-based FlexRay definitions.
 - If the edit mode is LOGIC, symbol definition (*.sbl) files can be loaded.
 - If the edit mode is LIN, LIN definition (*.ldf) and symbol definition (*.sbl) files can be loaded.
 - CANdb files can contain up to 5000 messages.
 - FIBEX files can contain up to 2048 messages.
 - LIN definition files can contain up to 3840 messages.
-

2.2 Displaying Definitions

In the reference list, select a message then click , or click **Edit > View** to display a dialog box for displaying definitions.



[FlexRay] Message and signal parameters

Message name:

Frame format:

Message id: Decimal Hex


Byte count:

Base cycle: Cycle repetition:

Signals

Signal name:

Bit order:

Start bit: 

Bit count:

Value type: Little(Intel) Big(Motorola)

Scaling

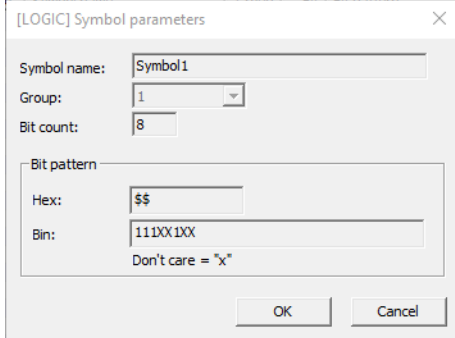
Factor: Maximum:

Offset: Minimum:

Unit:

OK Cancel

FlexRay



[LOGIC] Symbol parameters

Symbol name:

Group:

Bit count:

Bit pattern

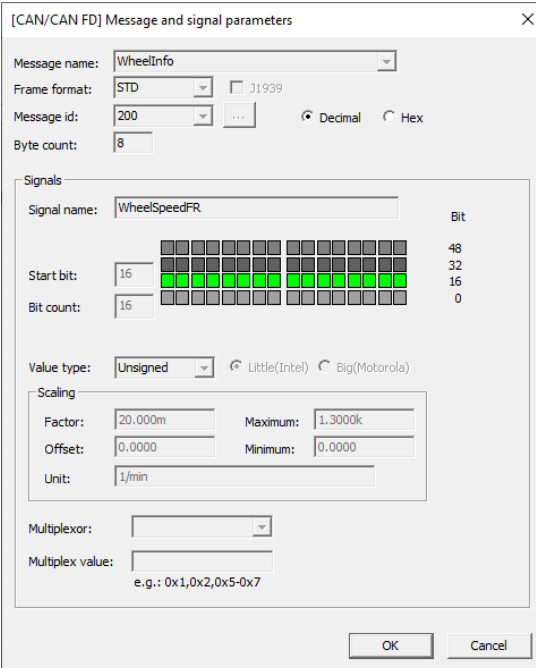
Hex:

Bin:

Don't care = "x"

OK Cancel

LOGIC



[CAN/CAN FD] Message and signal parameters

Message name:


Frame format: J1939

Message id: Decimal Hex

Byte count:

Signals

Signal name:

Start bit: 

Bit count:

Value type: Little(Intel) Big(Motorola)

Scaling

Factor: Maximum:

Offset: Minimum:

Unit:

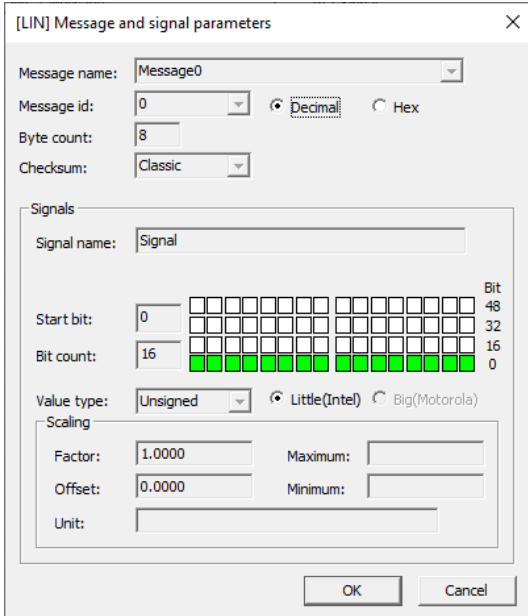
Multiplexor:

Multiplex value:

e.g.: 0x1,0x2,0x5-0x7

OK Cancel

CAN/CAN FD



[LIN] Message and signal parameters

Message name:


Message id: Decimal Hex

Byte count:

Checksum:

Signals

Signal name:

Start bit: 

Bit count:

Value type: Little(Intel) Big(Motorola)

Scaling

Factor: Maximum:

Offset: Minimum:

Unit:

OK Cancel

LIN

Note:

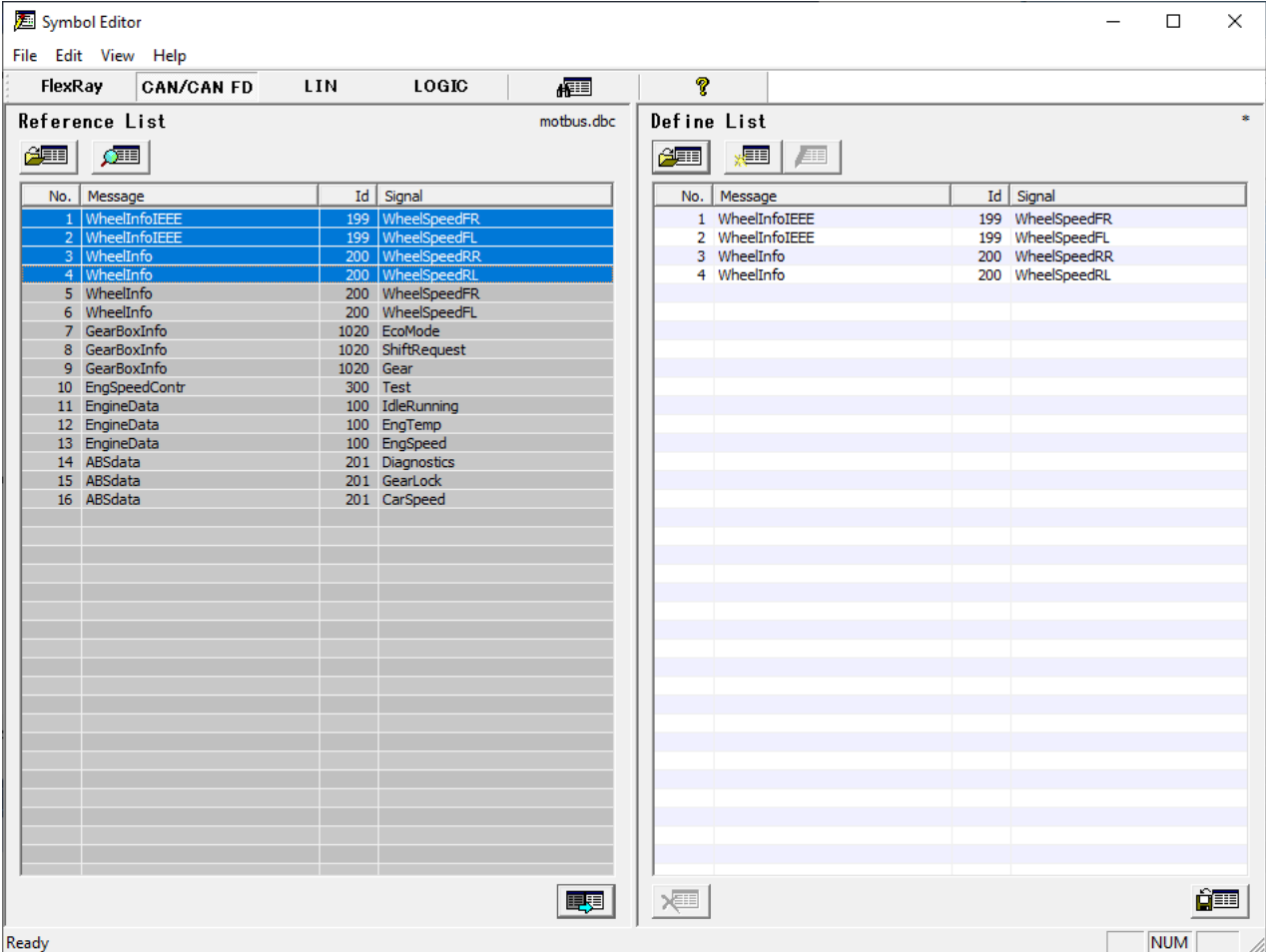
- The contents of the dialog box differs depending on the edit mode.
 - The contents of messages do not change.

 - CAN/CAN FD, FlexRay, LIN
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)

 - If the FIBEX definition encoding type is something other than INDENTICAL/LINNER, the start bit, bit count, and scaling are blank.
 - For FlexRay, if the byte count is greater than 8, up to 64 bits in the position of the byte corresponding to the start bit is displayed.
-

2.3 Adding Definitions

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



The screenshot shows the Symbol Editor window with the following data:

No.	Message	Id	Signal
1	WheelInfoIEEE	199	WheelSpeedFR
2	WheelInfoIEEE	199	WheelSpeedFL
3	WheelInfo	200	WheelSpeedRR
4	WheelInfo	200	WheelSpeedRL
5	WheelInfo	200	WheelSpeedFR
6	WheelInfo	200	WheelSpeedFL
7	GearBoxInfo	1020	EcoMode
8	GearBoxInfo	1020	ShiftRequest
9	GearBoxInfo	1020	Gear
10	EngSpeedContr	300	Test
11	EngineData	100	IdleRunning
12	EngineData	100	EngTemp
13	EngineData	100	EngSpeed
14	ABSdata	201	Diagnostics
15	ABSdata	201	GearLock
16	ABSdata	201	CarSpeed

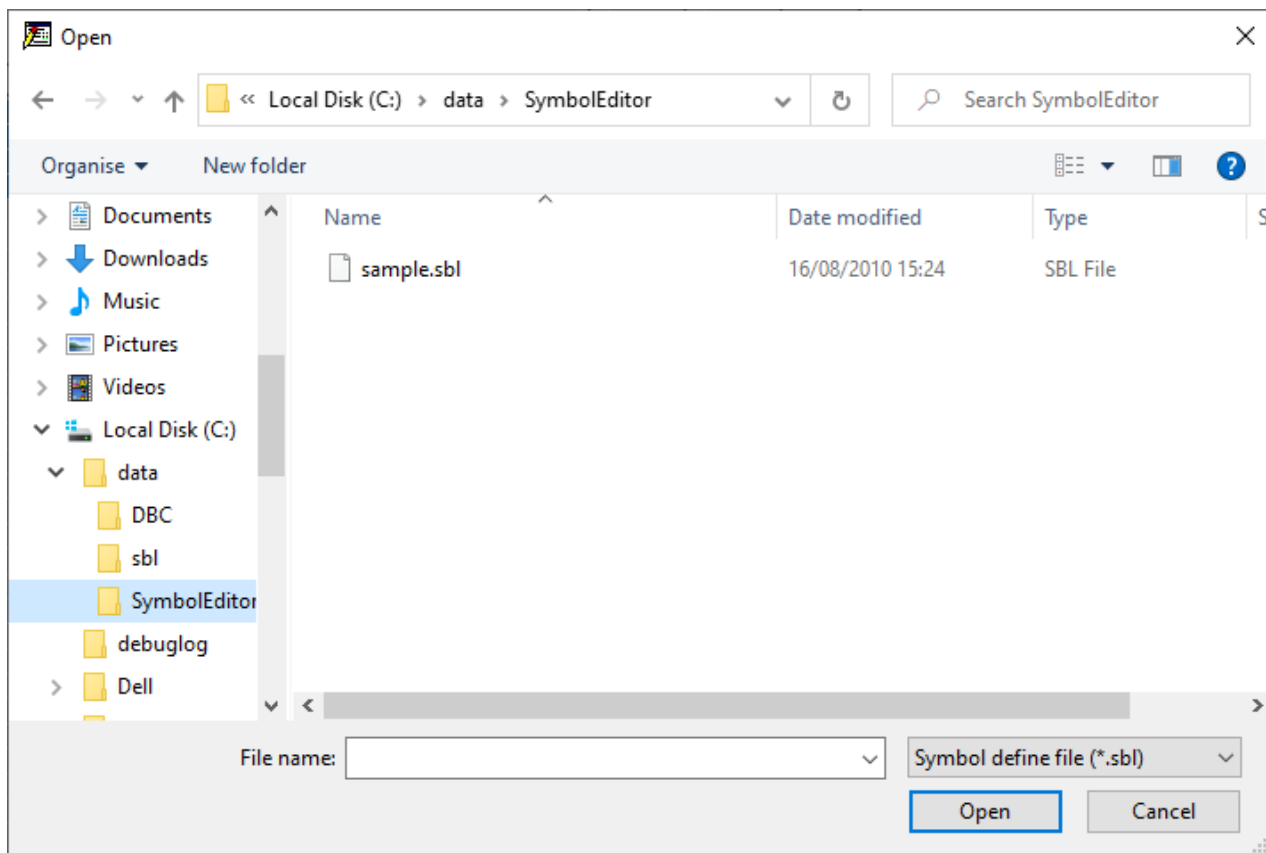
No.	Message	Id	Signal
1	WheelInfoIEEE	199	WheelSpeedFR
2	WheelInfoIEEE	199	WheelSpeedFL
3	WheelInfo	200	WheelSpeedRR
4	WheelInfo	200	WheelSpeedRL

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.
- Definitions cannot be added for the following signals.
 - (1) If the definition overlaps with another signal
 - (2) If part of the display screen is blank
 - (3) If the encoding type is something other than INDENTICAL/LINNER
 - (4) If the encoding information (bit order, start bit, bit count, or byte order specification) is invalid

3.1 Loading Definition Files

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



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

In the definition list, click , or click **Edit > New** to display the dialog box for new definitions.

FlexRay

LOGIC

CAN/CAN FD

LIN

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/CAN FD

- 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)
When the J1939 check box is selected, Frame format is fixed to XTD. *
- Byte count setting range
When the J1939 check box is not selected: 0 to 64*
When the J1939 check box is selected: 0 to 1785*
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 64.
- 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.

- Multiplex setup*

Signals in the same message can be selected as Multiplexor. If Multiplexor is left blank, the Multiplex function is turned off.

Multiple multiplex values can be set.

To set multiple values, separate the values with commas or specify a range by hyphenating the minimum and maximum values.

* Only the DL950 and DL350 support J1939 and Multiplex.

LIN

- You may not enter a signal name that already exists within a message.
- The message id setting range is 1 to 63 (3F 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.

FlexRay


- You may not enter a signal name that already exists within a message.
- The message id setting range is 1 to 2047 (7FF hex)
- The byte count setting range is 0 to 254.
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 setting range for the base cycle is 0 to (cycle repetitions – 1).

-
- The setting range for the cycle repetition is 1 to 64.
The send schedule for messages in FlexRay is determined by the base cycle and cycle repetition.
Base cycle: In communication cycles (0 to 63), specify the cycle at which the first message is sent.
Cycle repetition: Specify an interval in numbers of cycles starting from the base cycle at which messages are sent.
Ex. 1) Base cycle=3, Cycle repetition=4
The cycle count: 3, 7, 11, ...59, 63 is defined as the message send schedule.
Ex. 2) Base cycle=0, Cycle repetition=1
The entire cycle count: 0, 1, 2, ..., 63 is defined as the message send schedule.
 - 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)
Up to 64 bits from the byte position corresponding to Start can be used.
You cannot click or drag the mouse 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.
-

3.3 Editing Definitions

In the definition list, select a message and click , or click **Edit > Edit** to display the dialog box for editing definitions.

FlexRay

LOGIC

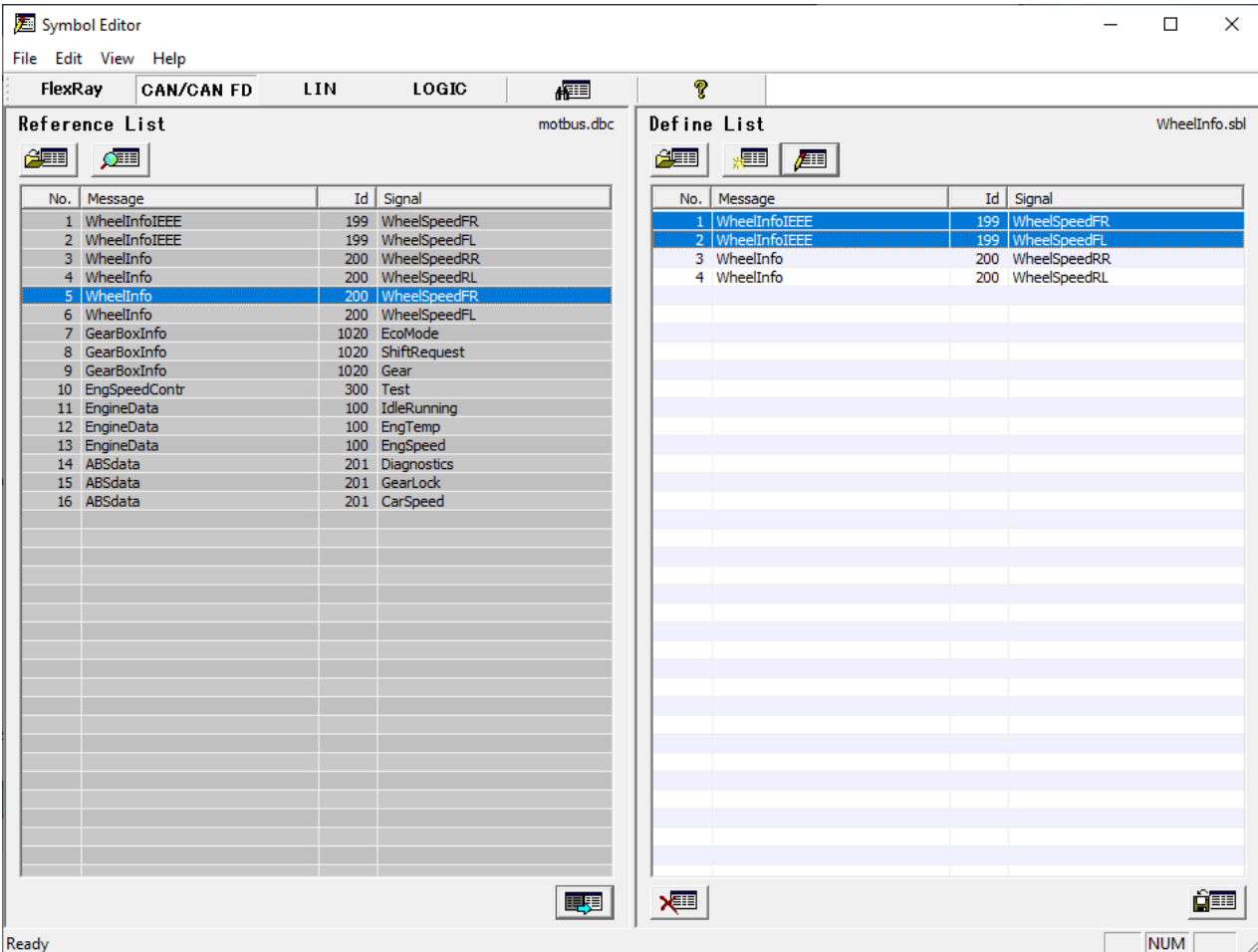
CAN/CAN FD

LIN

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

3.4 Deleting Definitions

In the definition list, select messages and click , or click **Edit > Delete**. The selected messages are deleted from the definition list.



The screenshot shows the Symbol Editor interface with two panels: Reference List and Define List.

Reference List (motbus.dbc):

No.	Message	Id	Signal
1	WheelInfoIEEE	199	WheelSpeedFR
2	WheelInfoIEEE	199	WheelSpeedFL
3	WheelInfo	200	WheelSpeedRR
4	WheelInfo	200	WheelSpeedRL
5	WheelInfo	200	WheelSpeedFR
6	WheelInfo	200	WheelSpeedFL
7	GearBoxInfo	1020	EcoMode
8	GearBoxInfo	1020	ShiftRequest
9	GearBoxInfo	1020	Gear
10	EngSpeedContr	300	Test
11	EngineData	100	IdleRunning
12	EngineData	100	EngTemp
13	EngineData	100	EngSpeed
14	ABSdata	201	Diagnostics
15	ABSdata	201	GearLock
16	ABSdata	201	CarSpeed

Define List (WheelInfo.sbl):

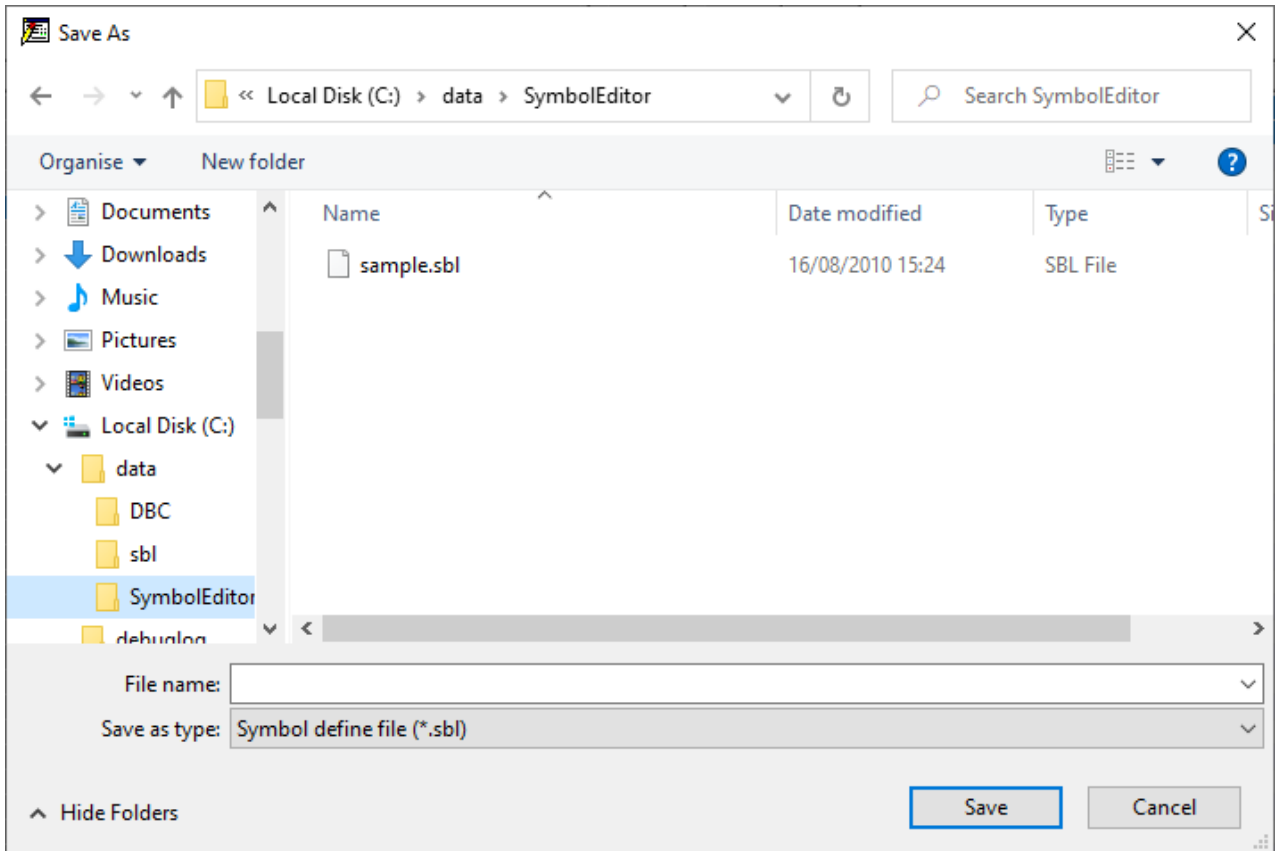
No.	Message	Id	Signal
1	WheelInfoIEEE	199	WheelSpeedFR
2	WheelInfoIEEE	199	WheelSpeedFL
3	WheelInfo	200	WheelSpeedRR
4	WheelInfo	200	WheelSpeedRL

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.

3.5 Saving Definitions

1. In the definition list, click , or click **File > Save** to display the Save As dialog box.



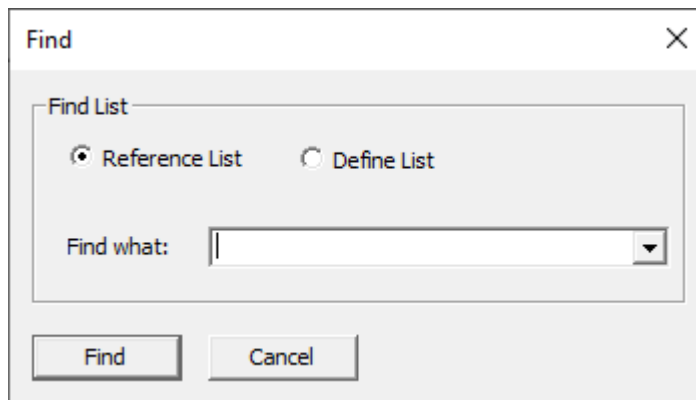
2. In the File name box, type the name under which you wish to save the file or select a file from the list, then click **Save**. The contents of the definition list are saved to the file.

Note:

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

4.1 Searching for Messages

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



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

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

• Sorting All Items in the List

Click a column title without No. to sort. Toggles between ascending and descending sort order.

The screenshot shows the Symbol Editor interface with two tables side-by-side. The left table is titled 'Reference List' and the right table is titled 'Define List'. Both tables have columns for 'No.', 'Message', 'Id', and 'Signal'. A red box highlights the first row of both tables. A callout box labeled 'Table titles' points to the titles of the tables.

No.	Message	Id	Signal
1	WheelInfoIEEE	199	WheelSpeedFR
2	WheelInfoIEEE	199	WheelSpeedRL
3	WheelInfo	200	WheelSpeedRR
4	WheelInfo	200	WheelSpeedRL
5	WheelInfo	200	WheelSpeedFR
6	WheelInfo	200	WheelSpeedFL
7	GearBoxInfo	1020	EcoMode
8	GearBoxInfo	1020	ShiftRequest
9	GearBoxInfo	1020	Gear
10	EngSpeedContr	300	Test
11	EngineData	100	IdleRunning
12	EngineData	100	EngTemp
13	EngineData	100	EngSpeed
14	ABSdata	201	Diagnostics
15	ABSdata	201	GearLock
16	ABSdata	201	CarSpeed

No.	Message	Id	Signal
1	WheelInfoIEEE	199	WheelSpeedFR
2	WheelInfoIEEE	199	WheelSpeedRL
3	WheelInfo	200	WheelSpeedRR
4	WheelInfo	200	WheelSpeedRL

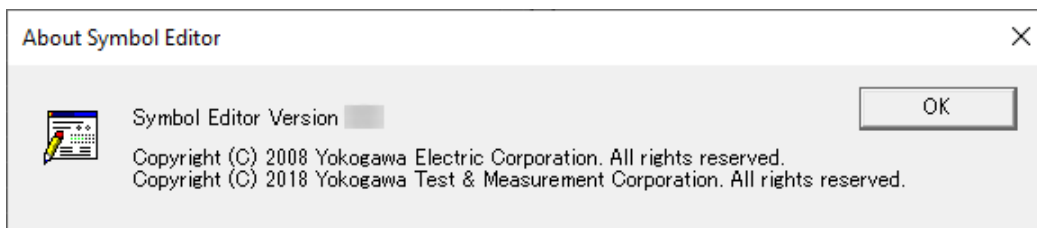
Note:

- When sorted, ▲ (ascending) or ▼ (descending) is indicated in the title.
- You can change the order of the messages by dragging them to any location in the definition list.

5 Other Functions

• Version Information

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



• User's Manual

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 download Adobe Reader from the following Web page.
<https://www.adobe.com/>

• Viewing the Yokogawa Test & Measurement Web Site

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.
