



Easy Writer Instruction manual



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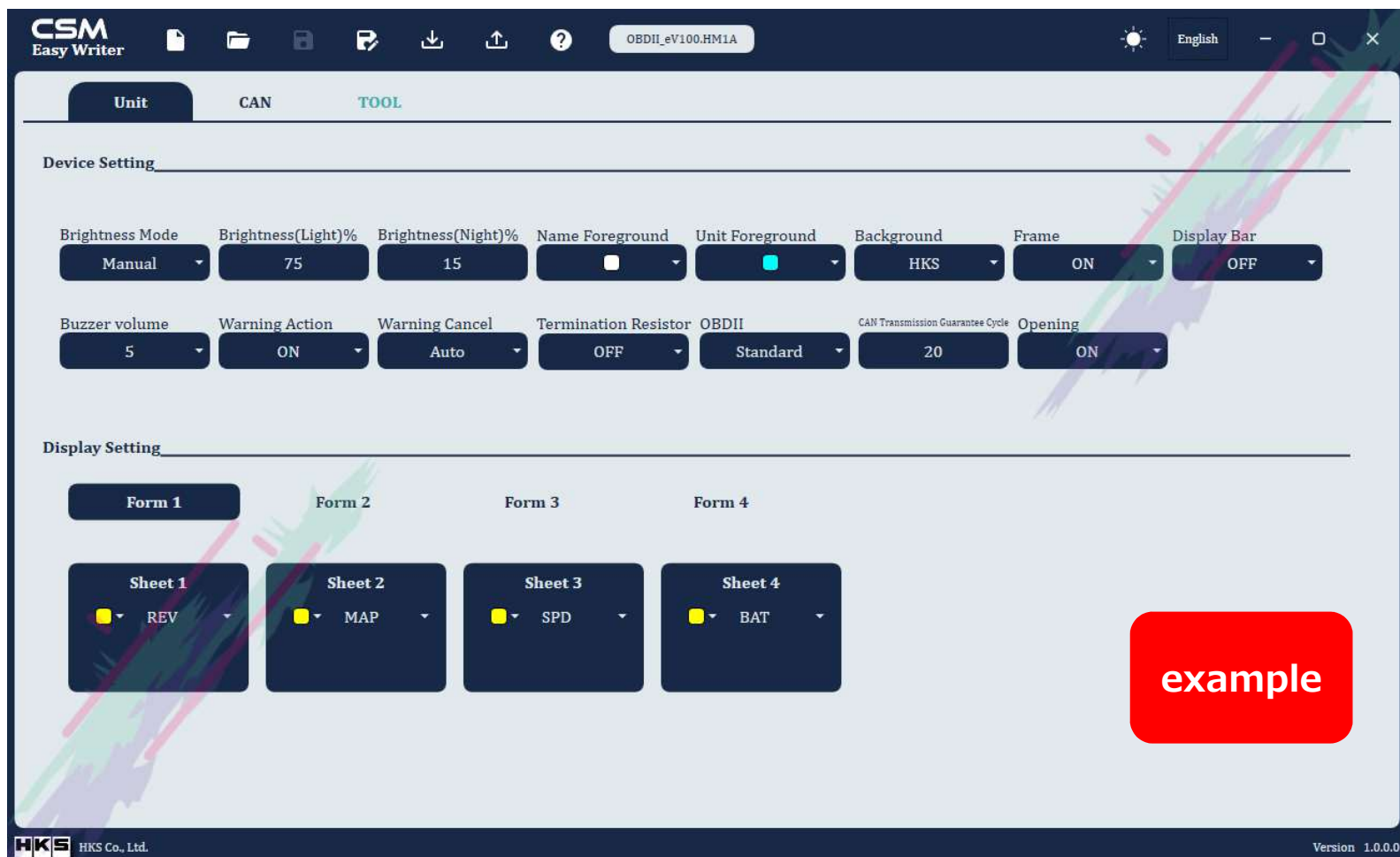
1. Introduction

1.1. What is Easy Writer?

CAN SMART METER Easy Writer is a tool for editing the configuration data of CAN SMART METER (hereinafter referred to as CSM).


Edit the "Unit" setting to set the operation and display of the CAN SMART METER, and the "CAN" setting to set the CAN data transmission and receive rules.


In addition, the auxiliary function "TOOL" allows you to view CAN incoming data in real time and send CAN data.



1. Introduction

1.2. Safety precautions

 caution	<p>When there is a risk of injury to the worker or employer (personal injury) When the occurrence of expanded property damage is expected (Extensive property damage refers to property damage caused by the product [e.g., damage to a vehicle and fire damage])</p>
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 caution
<ul style="list-style-type: none"> • Please be sure to read the instruction manual provided with the CSM and strictly follow the precautions provided. • When checking the CSM on the vehicle, be sure to stop it in a safe place. • When changing the CSM setting, start the engine and make sure that the warning lights such as the check engine light are not on or flashing. • Set CAN transmission and receive rules with a PC-only connection as much as possible. (To avoid unfair transmission to the opposing unit) • When transmitting CAN from CSM, there may be unintended operation, such as data that cannot be accepted by the other unit, such as the vehicle side device. Understand the functionality of the vehicle-side device and do not transmit incorrect data.

1. Introduction

1.3. Before using Easy Writer

- The CAN configuration data in this manual is for those who have basic knowledge and understanding of CAN.
- We do not provide data or information specific to the vehicle model/vehicle.
- CSM is not a measuring device.
Please note that this device is a device that quantifies and displays CAN data values, and does not have a function such as keeping strict records.

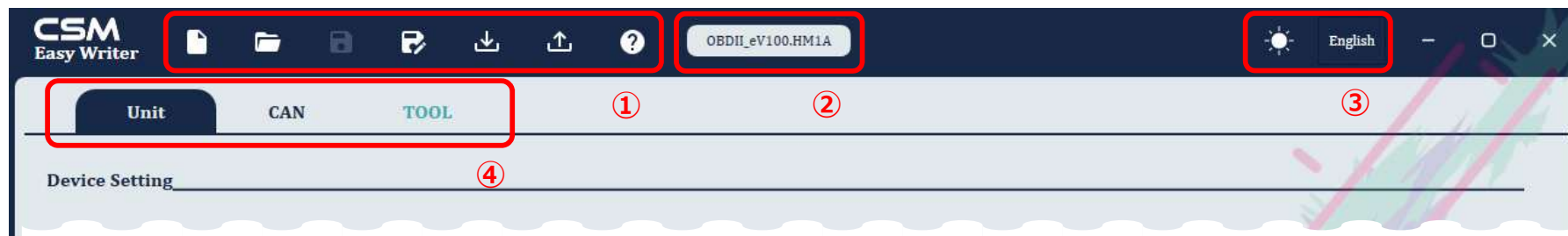
- You can enter up to 6 characters for the name and units, but due to the size of the CSM display area, all characters may not be displayed.*The number of characters that can be displayed will change depending on the width of the characters. (A larger text width reduces the number of characters that can be displayed.)
- The character types that can be displayed in names and units are, A~Z , a~z , ア~ン , ! " # \$ % & ' () ? / @ ° { } [] + - , etc. can be entered.
*If you want ° (upper circle) to be displayed, please enter '(back quote).
- When the OBD setting is set to something other than OFF (standard or custom), the sending setting number for the CAN request should be the same as the receiving setting number for the response.
*If you set different send and receive numbers, it may not be displayed.

- The contents of the description are subject to change without notice due to changes in the specifications of our products.

2. Easy Writer Overview

2.1. Screen description

By clicking the buttons displayed on the screen with the mouse, you can switch between screens and perform operations.
For more information, see Operation description from 2.2 onwards.



① Toolbar	2.2. See "Operation description" (1) Toolbar.
② File name	The file name of the currently open data.
③ Screen display settings	2.2. See "Operation description" (2) Screen display settings.
④ Settings Selection Tab	2.2. See "Operation description" (3) Setting selection tab.

2. Easy Writer Overview

2.2. Operation description

(1) Toolbar



① ② ③ ④ ⑤ ⑥ ⑦

① New file	Automatically creates data with initial values.
② Open file	Open the data you saved on your computer.
③ Save file	Overwrite the currently open data with the open file name and save it.
④ Save file as	Save the currently open data with a new file name.
⑤ Read data	Reads the data that is configured in CSM.
⑥ Write data	Write the currently open data to CSM and make it the new setting.
⑦ Help	Open this manual PDF file.

2. Easy Writer Overview

2.2. Operation description

(2) Screen display settings



① Screen	Switches the Easy Writer screen between light mode (light background + dark text) or dark mode (dark background + light text).
② Language	Switch to either Japanese or English.

2. Easy Writer Overview

2.2. Operation description

(3) Settings selection tab



① Unit	Change the display to the CSM operation configuration data. For more information, see Section 5.1 Unit settings.
② CAN	Change the display to CSM CAN data. For more information, see Section 5.2, CAN settings.
③ TOOL	It is not a configuration of the CSM itself. This function communicates with CSM and provides support such as displaying and transmitting CAN received data as it is. For more information, see Section 6 TOOL.

3. How to connect

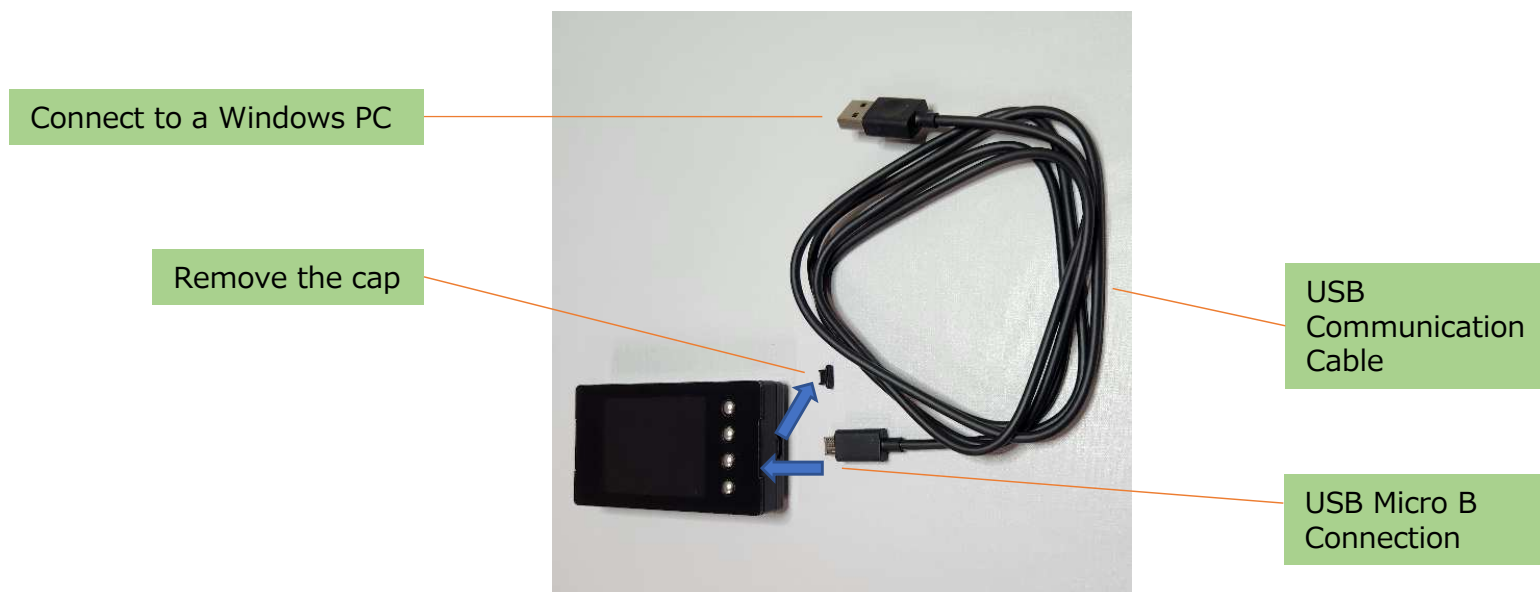
3.1. Connecting CSM to a Windows PC

- Please prepare a USB communication cable in advance. (Not included with CSM products)

Use a type of cable that can be connected to a Windows PC on one side (e.g., Type A) and a type that can be connected to CSM on one side (Micro B).

Communication is not possible with a dedicated charging cable.

- Remove the cap next to the CSM.
 - Please connect your Windows PC to the CSM using a USB communication cable.
 - CSM can be operated by USB power only.
- The configuration allows you to remove the CSM from the vehicle and read or write data.



4. Basic operation flow

4.1. Opening base data

Open the configuration data based on the "New file", "Open file", and "Read data" operations.

"Open files" is based on past settings stored on the computer.

"Read data" reads all the current configuration data from the CSM and uses the configuration data as the base data.

4.2. Editing data

Refer to Section 5. Data editing and edit the setting data (Unit settings and CAN Settings) to the desired values.

4.3. Writing and storing data

Write the configuration data edited in "Write Data" to CSM.

CSM works on what you set.

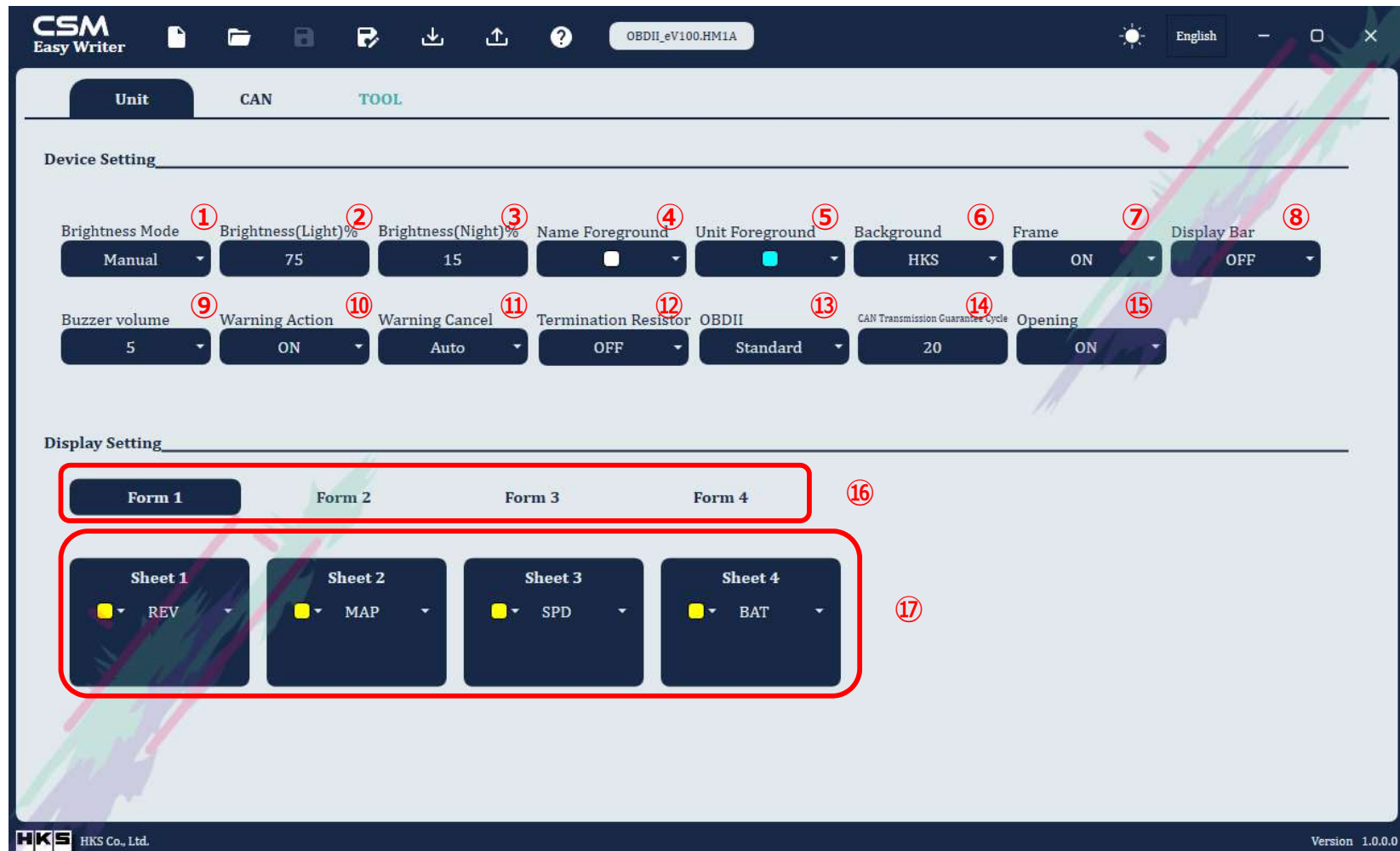
Also, use "Write File" and save the edited configuration data for the next edit or backup.

5. Data editing

5.1. Unit settings

Unit settings are settings related to CSM operation and display.

Please refer to the next page for an explanation of the settings.



5. Data editing

5.1. Unit settings

Unit settings(1/4)

Data Name	Data Coverage	explanation
① Brightness Mode	Manual / Auto	<p>This is the setting for brightness switching on the CSM display.</p> <ul style="list-style-type: none"> •When setting Manual You can switch between light and dark brightness mode with the click of a button. •When setting Auto In the CAN receive settings, set the name to [LIGHT] or [light]. Depending on the result of the CAN receive operation, it switches to dark mode or light mode. You cannot switch between light and dark mode with the operation of a button. <p>★ The default setting is [Manual].</p>
② Brightness (Light)	0 ~ 100	<p>This is the setting of CSM screen brightness when it is in light mode. The higher the number, the brighter it is. On the other hand, the lower the number, the darker it is.</p> <p>★ The default setting is [75].</p>
③ Brightness (Dark)	0 ~ 100	<p>The screen brightness of CSM is set when it is in dark mode. The higher the number, the brighter it is. On the other hand, the lower the number, the darker it is.</p> <p>★ The default setting is [15].</p>
④ Name Foreground	White / Yellow / Green / Blue / LightGreen / Pink / Cyan / Magenta	<p>This sets the color of the data name display when the meter is displayed. It is common to all forms and all seats.</p> <p>★ The default setting is [White].</p>
⑤ Unit Foreground	White / Yellow / Green / Blue / LightGreen / Pink / Cyan / Magenta	<p>Sets the color of the data unit display when displaying the meter. It is common to all forms and all seats.</p> <p>★ The default setting is [Yellow].</p>
⑥ Background	BLACK / CARNON / HKS	<p>This is the design setting of the screen background when the meter is displayed. "BLACK" is a design with no black background. "CARBON" has a carbon-like design. "HKS" is a design in HKS oil color.</p> <p>★ The default setting is [HKS].</p>

5. Data editing

5.1. Unit settings

Unit settings(2/4)

Data Name	Data Coverage	explanation
⑦ Frame	ON / OFF	On the meter display screen, this is the setting of whether or not to display the frame (frame) that separates the data from the data. ★The default setting is [ON].
⑧ Display Bar	ON / OFF	In the case of Form 2 and Form 4 on the meter display screen, this is the setting to display a bar on the background of the number. The number of bars is the percentage of data values actually entered, dividing the range of minimum and maximum value settings into 10 levels. ★The default setting is [OFF].
⑨ Buzzer Volume	0 ~ 10	This is the loudness setting of the buzzer sound when the button is operated or when the warning operation is conducted. 0 does not sound the buzzer. The higher the number you set, the louder the buzzer volume. ★ The default setting is [5].
⑩ Warning Action	ON / OFF	This is the setting to sound the buzzer sound or not when the warning operation. ★ The default setting is [OFF].
⑪ Warning Cancel	AUTO / MANUAL	When a warning action is performed and then falls outside the warning operation range, the warning action is automatically canceled or manually (button operation). ★ The default setting is [AUTO].

•About Warning Behavior

The only data that is being warned is the data that is being metered

5. Data editing

5.1. Unit settings

Unit settings(3/4)

Data Name	Data Coverage	explanation
⑫ Terminal Resistance	ON / OFF	<p>Termination resistors are resistors installed at both ends of the CAN bus (communication wire) to improve communication reliability. This resistor is installed in the CSM, but it can be set to OFF (cut off = not installed) in the setting. In the existing CAN bus system, set it to OFF because it is set in that system. If there is no termination resistor installed in the CAN bus, such as in a new system, set it to ON. ★ The default setting is [OFF].</p>
⑬ OBDII	OFF / standard / custom	<p>This is the operation setting at the start of CAN communication at startup.</p> <ul style="list-style-type: none"> •OFF: Immediately start the set CAN transmitting and receiving CAN operations. •Standard : Transmits standard ID <0x7DF> When standard ID <0x7E8> is received, the configured CAN transmit and receive operations begin. •Custom : In the CAN transmission settings, if the ID and data are set to Name = "COBD", Transmit= "ON", and Trigger = "Manual", then the configured CAN transmission and CAN reception operations will begin. In the CAN receive settings, if the Name = "COBD", Receive = "ON", and the configured ID and the actually received ID match, then the configured CAN transmission and CAN receive operations will begin. <p>★ The default setting is [Standard].</p>
⑭ CAN Transmission Guarantee Cycle	10 ~ 1000 (msec)	<p>If multiple time-period data is set in a CAN transmission, the overall transmission interval may be too short. Example: If there are 30 transmitted data with a 60 msec period, the overall interval will be $60/30 = 2$ msec. If the transmission interval is too short, the CAN communication of the connected system may be overloaded. By setting the CAN transmission guarantee period (minimum interval), transmission can be avoided at intervals shorter than this setting, protecting the connected system. *However, the cycle time set for each CAN transmission setting will not be observed. ★ The default setting is [20].</p>

5. Data editing

5.1. Unit settings

Unit settings(4/4)

Data Name	Data Coverage	explanation
⑮ Opening	ON / OFF	This is the setting to perform or not to perform the opening operation when the CSM is powered on. ★ The default setting is [ON].
⑯ form	1~4 form types	The contents of each sheet in the selected form are displayed, and you can check and change the settings of each sheet.
⑰ display	data : Any of the numbers 1~30 set in the CAN receive	This is the setting of the data to be displayed in each form and sheet.
	color : White / Yellow / Green / Blue / LightGreen / Pink / Cyan / Magenta	This is the color setting of the data number to be displayed.

5. Data editing

5.2. CAN Settings

CAN settings are settings for the CAN data that CSM sends or receives.

Please refer to the next page for an explanation of the settings.



① CAN Settings	This is the CAN settings screen.
② Number	You can set 30 CAN transmit and receive CAN (numbers 1 to 30). When you press this number, you will see the details of the number setting.
③ Detail	A single setting, sending or receiving, or sending and receiving is displayed. Select the number part to see the settings for that number.
④ Transmission	For 30 transmission settings, the settings are displayed on one screen.
⑤ Receive	For 30 receive settings, the settings are displayed on one screen.
⑥ Display Switching	When viewing details, switch the display to the receive settings if only the transmission settings are displayed, and to the sending settings if only the receive settings are displayed.

5. Data editing

5.2. CAN Settings

CAN Transmission settings

CSM Easy Writer OBDII_eV100.HM1A English

Unit **CAN** TOOL

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30

Transmission Setting

Name
REV

Transmission Enable **ON** Trigger **Time Period** Format **Standard** ID (HEX) **7DF** Data Length **8** Transmission Cycle (ms) **100**

Data (HEX)

Data[0] Data[1] Data[2] Data[3] Data[4] Data[5] Data[6] Data[7]
2 1 C 0 0 0 0 0

Detail Transmission Receive

HKS Co., Ltd. Version 1.0.0.0

5. Data editing

5.2. CAN Settings

CAN Transmission settings (1/1)

CSM can transmit CAN data in 30 patterns with numbers 1~30 (green dotted line frame on the previous page).

Data Name	Data Coverage	explanation
① Name	Text 0 ~ 6 characters	The name of the transmitted data. When manually submitting, this name appears in the CSM.
② Transmission Enable	ON / OFF	The content of the transmission number is the setting of whether to send CAN or not.
③ trigger	Time Cycle / Manual	This is the setting of whether the transmission is sent at a fixed time period or manually.
④ format	Standard / Extended	This is the setting of whether the CAN ID to be sent is a standard ID or an extended ID.
⑤ ID(HEX)	For standard 0x1~0x7FF For extensions 0x1~0x1FFFFFFF	This is the setting of the CAN ID to be sent.
⑥ Data Length	1 ~ 8	This is the setting of the length of the data (number of bytes) in the CAN to be sent.
⑦ Transmission Cycle	10~1000 (msec)	This is the time setting when the CAN transmit trigger is set to the time period.
⑧ Data D[0]~ D[7]	0x00 ~ 0xFF	The value of the data to be sent.

- Triggering "Manual" in CAN transmission is done by CSM operation.
For details, refer to the CAN transmission mode in the manual that comes with the CSM.
- Up to 4 triggers "manual" can be set for CAN transmission.
Even if you set more than 5 items, you cannot display or select them on the CSM screen.

5. Data editing

5.2. CAN Settings

CAN Receive settings.

CSM Easy Writer | OBDII_eV100.HM1A | English

Unit | **CAN** | **TOOL**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30

Receive Setting

Name ^① Unit ^②
REV rpm

Receive Enable ^③ Format ^④ ID (HEX) ^⑤ Identification Count ^⑥ Identification 0 (HEX) ^⑦ Identification 1 (HEX) Identification 2 (HEX) Identification 3 (HEX)
ON Standard 7E8 3 04 41 0C 00

Sign ^⑧ Byte order ^⑨ Bit Position ^⑩ Data Length ^⑪ Precision ^⑫ Multiplier ^⑬ Divisor ^⑭ Addend ^⑮
Unsigned Motorola 32 16 0 1 4 0

Minimum ^⑯ Maximum ^⑰ Initial Value ^⑱ Out of range value ^⑲ Lower Warning Threshold ^⑳ Upper Warning Threshold ^㉑ Warning Judgment Time(ms) ^㉒
0 8000 0 0 0 8000 10000

Detail | Transmission | Receive

HKS HKS Co., Ltd. Version 1.0.0.0

5. Data editing

5.2. CAN Settings

CAN Receive settings (1/3)

CSM can receive CAN data in 30 patterns with numbers 1~30 (green dotted line frame on the previous page).

After receiving the data, the necessary part of the data is extracted, converted into display value data.

Data Name	Data Coverage	explanation
① name	Text 0 ~ 6 characters *Due to the screen display area, all characters may not be displayed.	The name of the received data. This is the name displayed on the meter screen.
② unit	Text 0 ~ 6 characters *Due to the screen display area, all characters may not be displayed.	The unit of incoming data. This is the unit displayed on the meter screen.
③ Trust or not	ON / OFF	This is the setting of whether to receive and convert to the value you want to display in this receiving number.
④ format	Standard / Extended	This is the setting of whether the CAN ID to be received is a standard ID or an extended ID.
⑤ ID(HEX)	For standard 0x1~0x7FF For extensions 0x1~0x1FFFFFFF	This is the setting of the CAN ID to be received.
⑥ Number of identification data	0 ~ 4	Instead of using CAN inbound as an identification filter based on ID alone, you can use up to 4 bytes in the data as an identification filter. This is the setting of the number of bytes of data that you want to use as an identification filter.
⑦ Identification Data 0~3	0x00 ~ 0xFF	This is the data value to be identified when the number of identified data is set to a setting other than 0, which is compared to the CAN incoming data. Set the number of identification data.

※For identification data, refer to the CAN receive example in Section 5.3.

5. Data editing

5.2. CAN Settings

CAN Receive settings (2/3)

Data Name	Data Coverage	explanation
⑧ sign	Yes / None	This setting determines whether the data received and extracted from CAN is signed or unsigned.
⑨ ByteOrder	Motorola / Intel	This is a specified setting when extracting the required data from CAN received data when entering from a large digit (Motorola) or a small digit (Intel).
⑩ BitPosition	0 ~ 63	When extracting the required data from the CAN received data, the bit position of the extraction origin in all the received data is set.
⑪ Data Length	1 ~ 16	When extracting the required data from the CAN received data, this is the setting of the size of the bits to be extracted out of all the received data.
⑫ Decimal digit	0 ~ 4	When displaying the calculated display value, the decimal point is not added (0), or the number of digits (1~3) is set again.
⑬ multiplier	1 ~ 10000	This is a multiplier setting that converts the data retrieved from the CAN receive into a value that displays it. (Multiplication)
⑭ divisor	1 ~ 10000	This is a divisor setting that converts the data retrieved from the CAN receive into a value that displays. (Division)
⑮ addend	-10000 ~ 10000	This is an addition setting that converts the data extracted from the CAN receive into a display value. (Addition) If it is set negatively, it is subtracted. (Subtraction)

5. Data editing

5.2. CAN Settings

CAN Receive settings (3/3)

Data Name	Data Coverage	explanation
⑩ minimum value	-9999 ~19999	This is the minimum value setting of the displayed value after the extraction operation. If the displayed value after the extraction operation is less than this value, the displayed value is set to this value.
⑪ Maximum	-9999 ~19999	This is the maximum value setting of the displayed value after the extraction operation. If the displayed value after the extraction operation is greater than this value, the displayed value is set to this value.
⑫ Initial value	-9999 ~19999	This is the default value setting of the displayed value when the CAN SMART METER is started. This value is displayed until the CAN incoming data is entered.
⑬ Out-of-range values	-9999 ~19999	This is a setting that you don't want to use.
⑭ Warning minimum	-9999 ~19999	If the value received by CAN and converted to the displayed value is less than this set value, it performs a warning operation.
⑮ Warning max	-9999 ~19999	If the value received by CAN and converted to the displayed value is greater than this setting value, the warning operation will be performed.
⑯ Warning Judgment Time	1 ~ 10000 (msec)	If the warning conditions in (20) and (21) are met and continue for more than this judgment time, the warning action will be performed.

5. Data editing

5.2. CAN Settings

CAN Transmission settings (Special)

Data Name	Data Coverage	explanation
COBD		When OBDII="Custom" is set in the unit settings Repeat the CAN transmission for this configuration until the power is turned on and the ID of the COBD configuration for the CAN receive is received.

CAN Receive Settings (Special)

Data Name	Data Coverage	explanation
COBD		When OBDII="Custom" is set in the unit settings Wait in the start state (e.g., on the opening screen) until the power is turned on and the ID of the COBD configuration for the CAN receive is received.
light		When brightness is set = "AUTO" in unit settings If the calculation result is 0, the brightness is in dark mode, and if it is not 0, it is in light mode.
LIGHT		When brightness is set = "AUTO" in unit settings If the calculation result is 0, the brightness is in light mode, and if it is not 0, it is in dark mode.

5. Data editing

5.3. CAN Receiving example

This is an example of filtering and calculation for CAN inbound. (Conversion from CAN received data to display data)

If the receive settings are as shown in the figure below

Receive Setting											
Name		Unit									
REV		rpm									
Receive Enable	Format	ID (HEX)	Identification Count	Identification 0 (HEX)	Identification 1 (HEX)	Identification 2 (HEX)	Identification 3 (HEX)	Sign	Byte order	Bit Position	Data Length
ON	Standard	7E8	3	04	41	0C	00	Unsigned	Motorola	32	16
Precision	Multiplier	Divisor	Addend	Minimum	Maximum	Initial Value	Out of range value	Lower Warning Threshold	Upper Warning Threshold	Warning Judgment Time(ms)	
0	1	4	0	0	8000	0	0	0	8000	10000	

CAN Receive

ID=0x7E8, data=0x04,0x41,0x0C,0x2E,0xE0,0x00,0x00,0x00

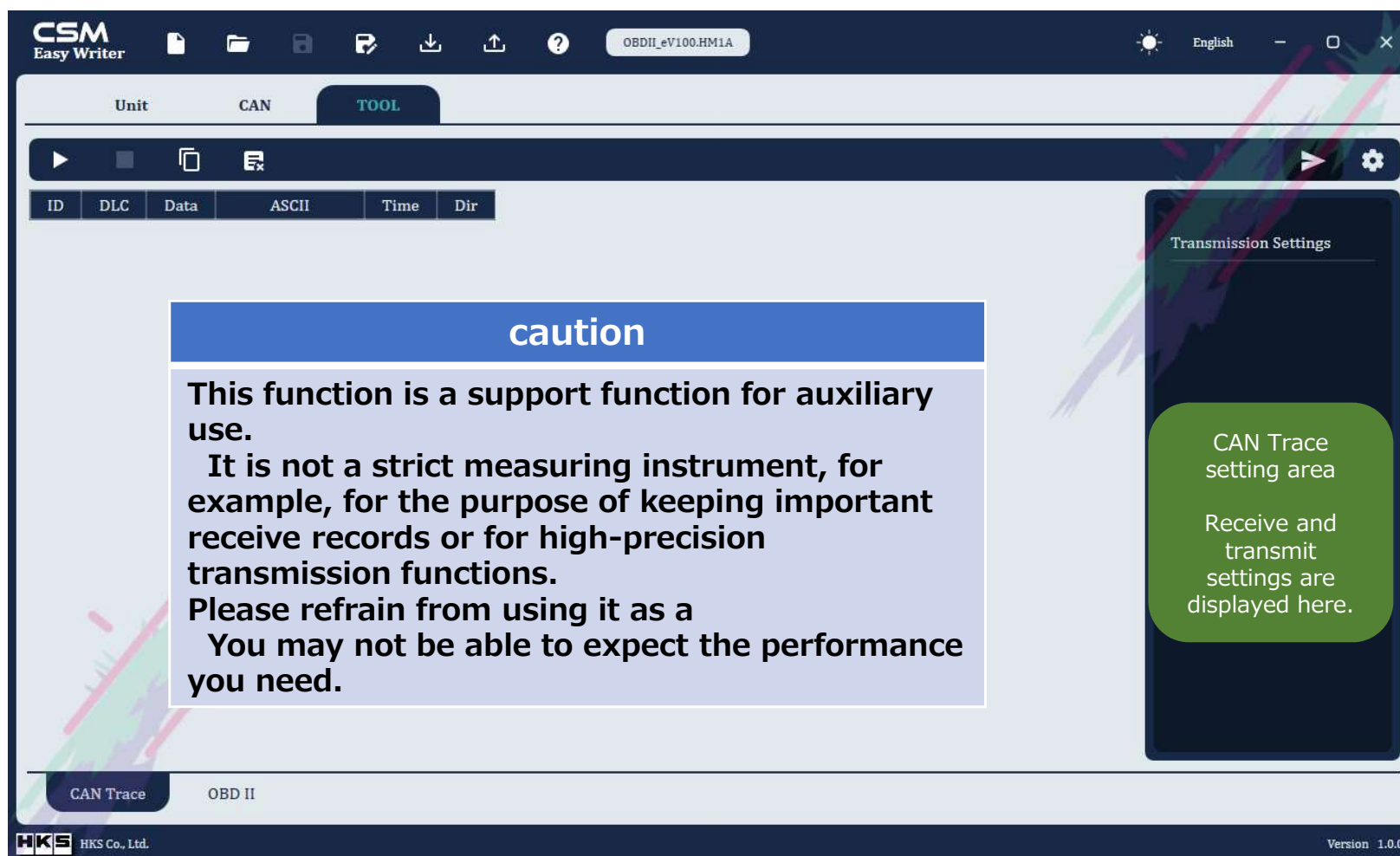
- (1) The [ID] in the CAN receive settings matches the ID actually received by the CAN. (0x7E8)
- (2) Since the [Identification count] data is set to "3", the three bytes of [identification 0 to 2] are compared and matched.(0x04,0x041,0x0C)
 - This CAN receive matches the receive settings, so it is captured as valid data. (If even one is different, I won't take it.)
- (2) Retrieve valid data from the [Sign], [byte order], [Bit position], and [Data length] settings.
 - 0x2E,0xE0 = 0x2EE0 = 12000.
- (3) The conversion from valid data to display data is from the setting of [Multipliers], [Divisors], and [Addend].
 - $12000 * 1/4 + 0 = 3000$
 - 3000 is the display data. (Also within the range of [Minimum] and [Maximum] values)
- (4) The CSM screen displays
 - Name="REV", Unit="rpm", Value="3000".

6. TOOL

6.1. CAN Trace

This function supports real-time communication between CSM and EasyWriter and displays the CAN data received by CSM as it is.

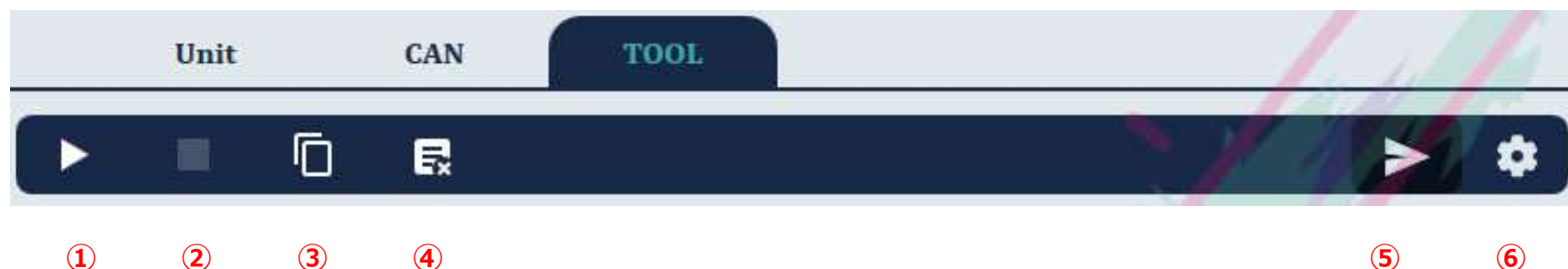
You can also send CAN data by setting the transmission conditions.



6. TOOL

6.1. CAN Trace

When you select a TOOL, the following button will appear, and by pressing the button, you can set the receive and transmission, start displaying CAN received data, and Finish.



① Start	Click the button to start receiving and viewing CAN. CSM does not display the meter when it is displayed.
② End	Click the button to finish receiving and displaying CAN updates. Be sure to exit the operation at the end.
③ Copy	Copy the CAN incoming data you are viewing to the clipboard.
④ Clear All	Clear all displayed CAN incoming data from the screen once.
⑤ Transmission settings	CAN transmission settings are displayed in the Trace settings area.
⑥ Receive settings	CAN reception and display method settings are displayed in the Trace settings area.

6. TOOL

6.2. CAN Trace receive settings

Configure how CAN incoming data is displayed, etc.



<p>① Fixed position</p>	<ul style="list-style-type: none"> • If you don't check it When you receive CAN data, you can add it as needed. As the screen fills up, scroll and continue to see new incoming data. • When to add a check If you receive CAN data and have data with the same ID in the past, only the contents of the data for that ID will be changed and displayed.
<p>② filter</p>	<ul style="list-style-type: none"> • If you don't check it Accepts all CAN ID data and displays the received data. • When to add a check It only receives CAN IDs within the range set by the minimum and maximum values and displays the data.

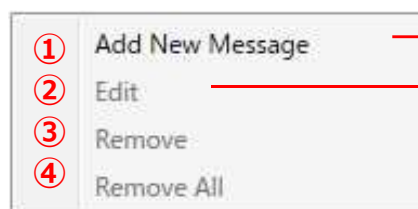
6. TOOL

6.3. CAN Trace transmission settings

Right-clicking the mouse in the CAN Trace area will display the transmission settings selection.

In the Send Settings selection, when you decide to add or edit a new message, the detailed settings for CAN transmission are displayed.

Select transmit settings



selection

① Add a new message	The screen to add CAN transmission settings is displayed.
② Edit	Start making changes to what you previously set.
③ Remove	Remove one of the previously configured contents.
④ Remove All	Remove all previously configured contents.

① Name	The name used to identify the CAN transmit configuration.
② Transmission Enable	This is the setting for sending or not sending this sending setting.
③ Trigger	This is the setting of whether to send manually or in a time period.
④ Format	This is the setting of whether it is a standard ID or an extended ID.
⑤ ID(HEX)	Set the ID to be sent.
⑥ Data Length	This is the setting for the length of the data to be sent.
⑦ data [0]~[7]	This is the data setting to send.

6. TOOL

6.4. OBDII

This function communicates with the connected vehicle ECU and checks the supported PID.

The vehicle ECUs that can be checked are OBDII compatible.

When you select Start, the corresponding PID (parameter data that can be received and displayed) is displayed.

The screenshot shows the CSM Easy Writer software interface. The 'Unit' is set to 'CAN' and the 'TOOL' tab is selected. A red arrow points to the 'Start' button (a right-pointing triangle) with the label 'begin'. Below the button is a table titled 'Supported PIDs'.

PID	DLC	Description
A	1	Fuel pressure (gauge pressure)
B	1	Intake manifold absolute pressure
C	2	Engine speed
D	1	Vehicle speed
E	1	Timing advance
F	1	Intake air temperature
10	2	Mass air flow sensor (MAF) air flow rate
11	1	Throttle position
13	1	Oxygen sensors present (in 2 banks)
14	2	Oxygen Sensor 1. A: Voltage. B: Short term fuel trim
15	2	Oxygen Sensor 2. A: Voltage B: Short term fuel trim
1F	2	Run time since engine start
20	4	PIDs supported [\$21 - \$40]
33	1	Absolute Barometric Pressure
34	4	Oxygen Sensor 1 AB: Air-Fuel Equivalence Ratio (lambda,λ) CD: Current
35	4	Oxygen Sensor 2

A red bracket on the right side of the table is labeled 'Show supported PIDs'. A red box with the word 'example' is located below the table.

7. Information

7.1. Cable

Cable signal (relay connector part)

Terminal Number	Signal Name	Wire mark
1	12V power supply	Black, short dot continuous
2	GND	Black, long dot
3	CAN-H	Black, short point 1
4	CAN-L	Black, short point 2



7. Information

7.2. Attached file

File name	Content
OBDII_eV100	CSM initialization (English)
OBDII_jV100	CSM initialization (Japanese)
HKS-CAN_eV100	HKS CAN format (English)
HKS-CAN_jV100	HKS CAN format (Japanese)
HondaMT_eV100	transmissionID=0x18DA10F1 , receiveID=0x18DAF110 (English)
HondaMT_jV100	transmissionID=0x18DA10F1 , receiveID=0x18DAF110 (Japanese)
S660MT_jV100	transmissionID=0x18DA10F1 , receiveID=0x18DAF110 Partial support for unique IDs

*The number of attachments and file names are subject to change.

Memo

edition	Revision details	Revision date
1	new	September 2025

