

Handheld Digital Tachometer DT-2100 Specialized Software

Instruction Manual

Be sure to read before use.

Precaution

- All the rights including copyrights related to the tachometer "DT-2100", specialized software, and its relevant documents belong to NIDEC-SHIMPO CORPORATION.
- For other precautions, refer to the terms of use described in this instruction manual.
- Some specifications differ depending on the sales area of the DT-2100.

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1. Introduction

Thank you for purchasing the Handheld Digital Tachometer "DT-2100" (hereinafter referred to as the DT-2100).

This instruction manual summarizes the operation procedure of the DT-2100 specialized software.

2. Software Operation Requirements

The software operation requirements for the DT-2100 specialized software is as follows:

Software Operation requirements

- DOS/V compatible machines
- Microsoft Windows® 7* (Japanese/English environment) (32 bit/64 bit)
- Microsoft Windows® 8* (Japanese/English environment) (32 bit/64 bit)
- Required Memory 2GB RAM

*Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Communication method: RS-232C (Virtual COM port)

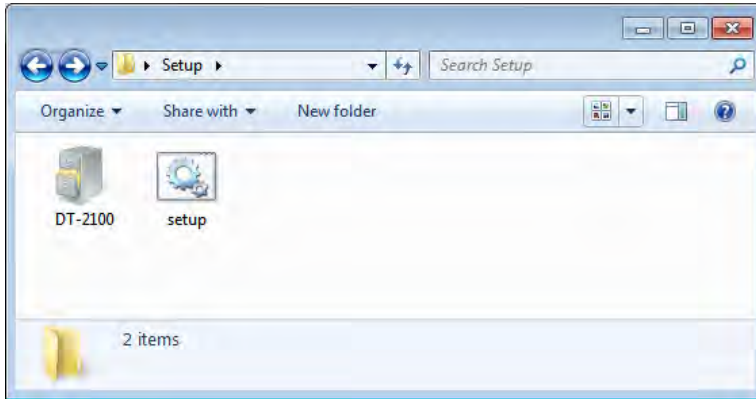
Communication protocol

Baud rate	38400bps
Data	8bit
Parity	None
Stop bit	1bit
Flow control	None

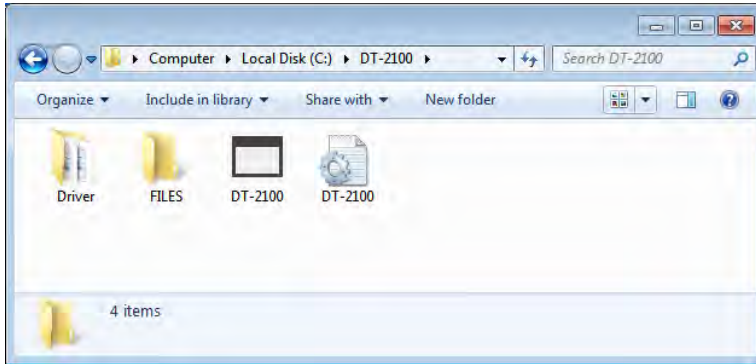
3. Installation

(1) Application installation

Double click setup.bat in the installation media "setup" folder to execute installation.



When installation is completed, the following files and folders are created under "C:\DT-2100".



(2) File configuration

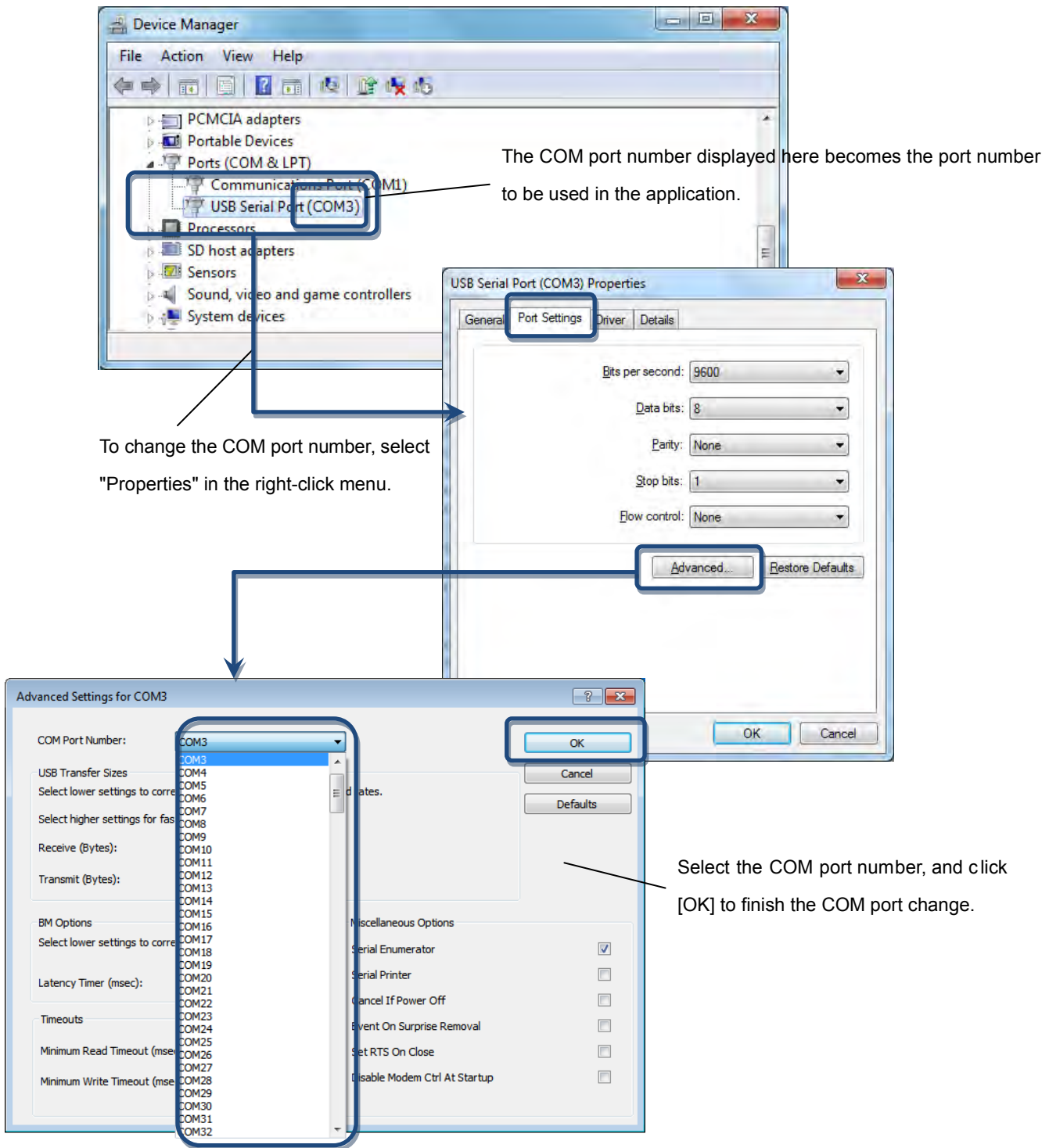
Installation destination	Folder		Remark
C drive	C:\DT-2100	DT-2100.exe	Execution file
		DT-2100.ini	Setting value save file
		FILES	Used for saving the CSV file Initial folder to be specified at the time of saving
		Driver	USB driver

(3) USB driver installation

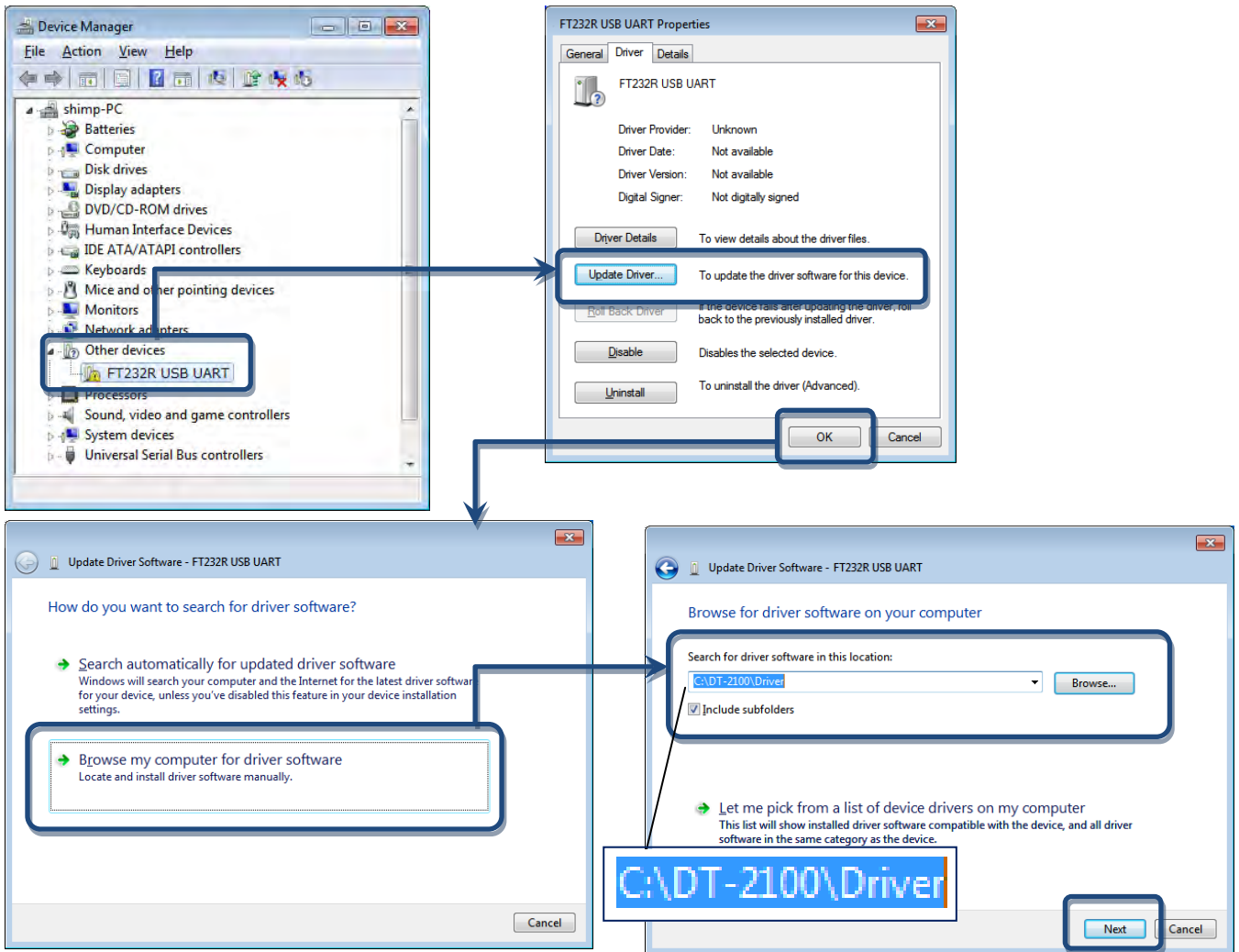
When connecting a USB device to the PC where the DT-2100 has been installed, the USB driver is automatically installed. Wait for several minutes until the installation is completed.

(4) COM port setting

Select "USB Serial Port" created under [Control Panel] - [Device Manager], and start to set the port.

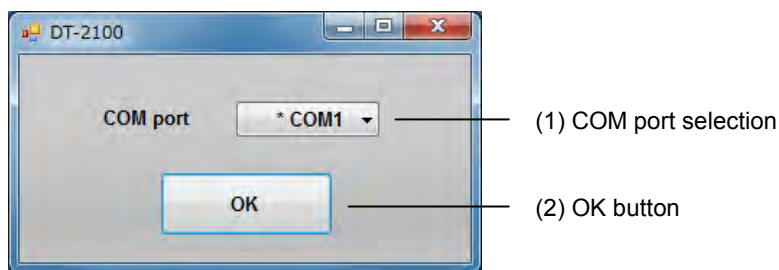


If the driver is not recognized correctly, perform [Update Driver] according to the following procedure.



4. Starting Application

Double click "DT-2100.exe" in the installation folder to start application.

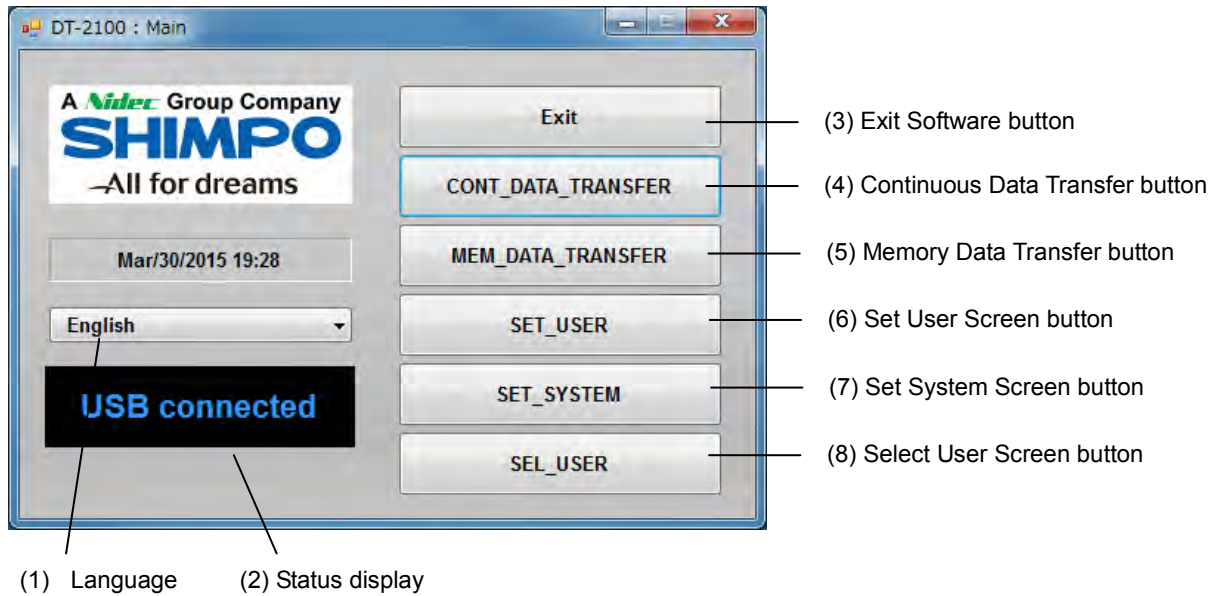


(1)COM port selection*	Select from among COM1 to COM15. Detects the available ports automatically, and attaches "*" before the COM number.
(2)OK button	Opens the selected COM port, and displays the main screen.

*Label and message descriptions depend on the language setting. (same as those for other screens)

*The initial language setting is English. From the next startup, the application starts with the language set when last closed.

5. Main Screen



(1) Language selection	Select the language from Japanese or English.
(2) Status display	Displays the USB connection status.
(3) Exit button	Exits the application.
(4) CONT_DATA_TRANSFER button	Displays the Continuous Data Mode screen.
(5) MEM_DATA_TRANSFER button	Displays the Memory Mode screen.
(6) SET_USER button	Displays the SET_USER screen.
(7) SET_SYSTEM button	Displays the SET_SYSTEM screen.
(8) SEL_USER button	Displays the SEL_USER screen.

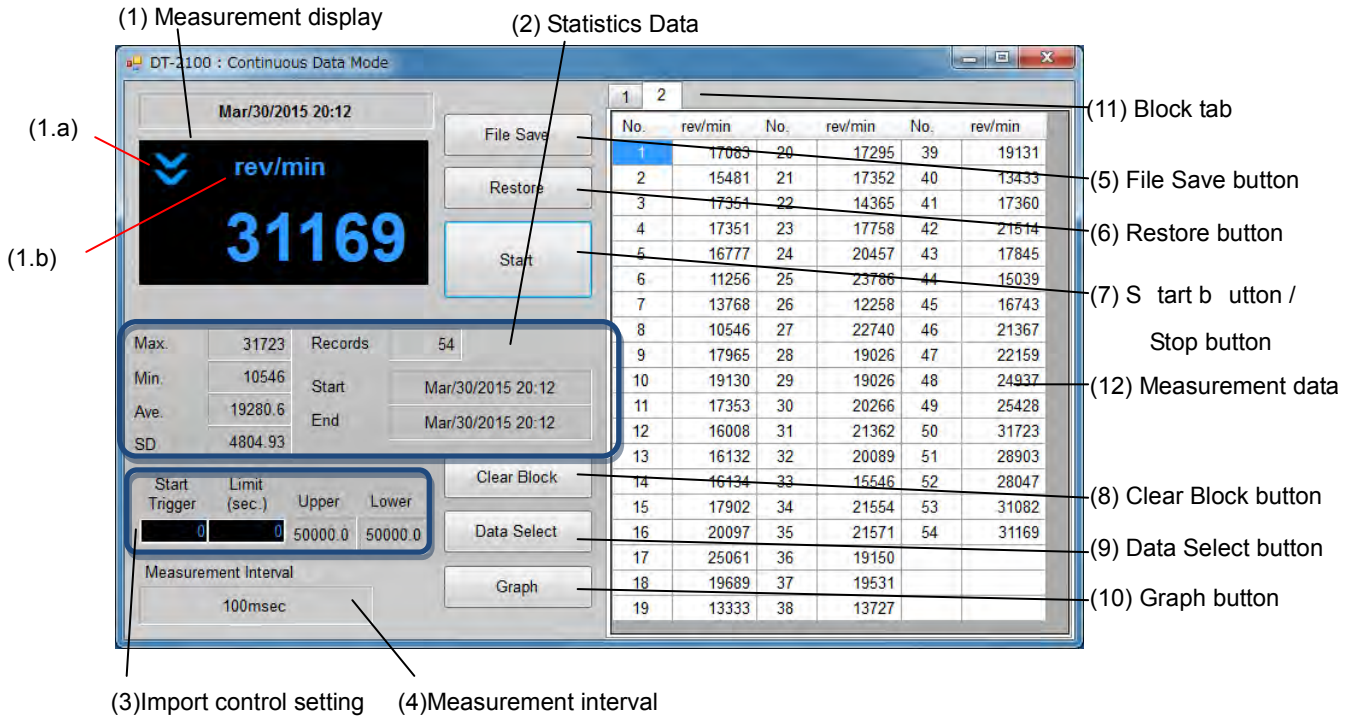
5.1 U SB Connection Status

Check the connection status with the DT-2100 in the status display screen.



6. Continuous Data Import Screen

Select the "CONT_DATA_TRANSFER" button in the menu to display the continuous data import screen.



(1) Measurement display	<p>(1.a) Upper/lower judgment marks: Compared to the values specified in the user setting, indicates the upper limit mark when the upper limit value is less than the measurement value, and the lower limit mark when the lower limit value is more than the measurement value.</p> <p>(1.b) Measurement unit: Indicates the unit specified in the user setting, and indicates "OVER" when the measured value exceeds the measurement range.</p> <p>Measurement value: Indicates the measurement value (6 digits + decimal point). When the measurement value exceeds 999999, indicates "-----" (hyphens).</p>
(2) Statistics Data	<p>For the imported measurement data, indicates the maximum value, minimum value, average value, standard deviation, the number of measurement data, and the measurement start, end time. Updates during measurement.</p> <p>For the average value, when the integer part of the calculated result has x digits, the number of digits after decimal point becomes 6-x.</p>
(3) Import control setting	<p>Import start trigger: After the measurement value exceeds the user defined Start Trigger, importation of data begins</p> <p>Import time limit: Importation ends when the user defined limit (sec), setting value has elapsed.</p> <p>Upper/lower judgment values: Indicates the upper/lower judgment values specified in the user setting screen.</p>
(4) Measurement interval	Indicates the measurement interval specified in the system setting.
(5) File Save button	<p>Generates the save destination folder selection screen.</p> <p>Saves the measurement data being displayed and statistics data (Max./Min./Ave./SD) to the file in the CSV format.</p>
(6) Restore button	<p>Indicates the file selection screen.</p> <p>Creates a new block, and reads the selected measurement data into it.</p>

(7) Start button /Stop button	Press the Start button to start importing the data. The Start button then becomes the Stop button. Press the Stop button to finish importing the data. The Stop button then becomes the Start button. During data import, buttons other than the Stop and Graph buttons, as well as the selection columns are disabled.
(8) Clear Block button	Click this button to display the confirmation screen. Click OK to delete the block that has been selected. When there are blocks No.1 to 4 and you delete block No.3, block No.4 is changed to No.3.
(9) Data Select button	Click this button to keep only the data that has been selected.
(10) Graph button	Click this button to display the Graph screen.
(11) Block tab*	Indicates the measurement data for every measurement. Up to 1000 block. Creates a new block for every measurement by pressing the Start button. You cannot switch data tabs while taking measurement.
(12) Measurement data*	Indicates the measurement value. Up to 65535 data points can be imported. Importing ends automatically when the maximum number of data points is attained.

*The measurement data and block tab are synchronized with the graph screen.

6.1 Measurement Display

Indicates the data importing status during measurement.

(1) Measurement value

- Indicates the measurement value (6 digits + decimal point).

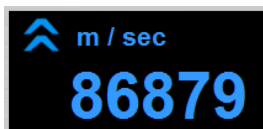


- When the measurement value exceeds 999999, indicates "-----" (hyphens).



(2) Upper/lower limit judgment marks

- Indicates the upper limit mark when COMPARATOR UPPER_LIMIT in the user setting is less than the measurement data.

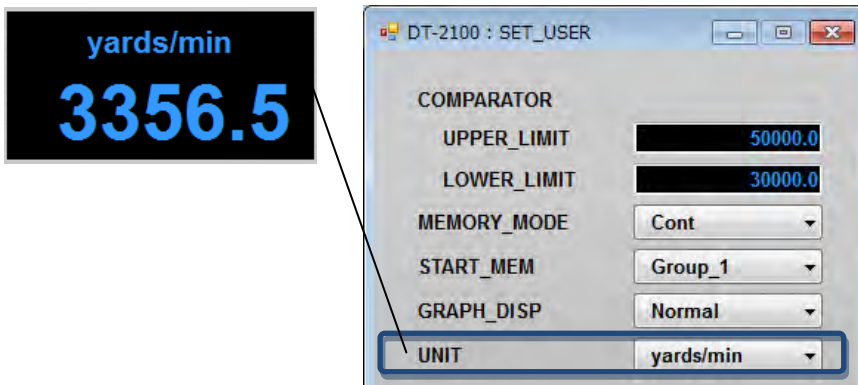


- Indicates the lower limit mark when COMPARATOR LOWER_LIMIT in the user setting is more than the measurement data.



(3) Measurement unit

- Indicates the unit specified in the SET_USER.



- Indicates "OVER" when the measured value exceeds the measurement range.



6.2 Measurement Results

(1) Measurement data

Measurement operation - 1

Press the Start button to start importing data. It then becomes the Stop button during measurement.

Press the Stop button to finish importing data.

The statistics data is calculated even during data import.

No.	rev/min	No.	rev/min
1	25985	20	14705
2	25808	21	20290
3	19885	22	18174
4	22674	23	18650
5	29496	24	16090
6	21921	25	19774
7	23974	26	17361
8	20352	27	18176
9	21118	28	16349
10	17600	29	16461
11	17977	30	15237
12	17977	31	20939
13	24837	32	24964
14	17893	33	17312
15	22956	34	16118
16	23902	35	22574
17	18094	36	33203
18	19347	37	16547
19	23773	38	10156

Measurement operation - 2

Adds a new block for every data import by pressing the Start button. Measurement data is retained.

DT-2100 : Continuous Data Mode

Mar/30/2015 20:25

rev/min
21634

File Save
Restore
Start

Max. 36353 Records 55
Min. 10156
Ave. 21814.7 Start Mar/30/2015 20:22
SD 5375.99 End Mar/30/2015 20:22

Start Trigger Limit (sec.) Upper Lower
0 0 30000.0 10000.0

Measurement Interval 100msec

Clear Block
Data Select
Graph

No.	rev/min	No.	rev/min	No.	rev/min
1	25985	20	14705	39	34528
2	25808	21	20290	40	36353
3	19885	22	18174	41	33280
4	22674	23	18650	42	33280
5	29496	24	16090	43	29451
6	21921	25	19774	44	22193
7	23974	26	17361	45	22721
8	20352	27	18176	46	26949
9	21118	28	16349	47	22712
10	17600	29	16461	48	25564
11	17977	30	15237	49	23649
12	17977	31	20939	50	20661
13	24837	32	24954	51	16717
14	17893	33	17312	52	19255
15	22956	34	16118	53	22304
16	23902	35	22574	54	19721
17	18094	36	33203	55	21634
18	19347	37	16547		
19	23773	38	10156		

Adds the block tab for every import.

DT-2100 : Continuous Data Mode

Mar/30/2015 20:26

rev/min
19353

File Save
Restore
Start

Max. 28808 Records 52
Min. 17573
Ave. 23000.5 Start Mar/30/2015 20:25
SD 2936.92 End Mar/30/2015 20:26

Start Trigger Limit (sec.) Upper Lower
0 0 30000.0 10000.0

Measurement Interval 100msec

Clear Block
Data Select
Graph

No.	rev/min	No.	rev/min	No.	rev/min
1	17573	20	23322	39	23792
2	21611	21	23721	40	19533
3	24435	22	26321	41	21427
4	28169	23	24278	42	20334
5	25397	24	22824	43	21178
6	21519	25	23302	44	20353
7	22902	26	25492	45	26974
8	20479	27	28808	46	26422
9	19791	28	28096	47	22183
10	22534	29	21768	48	25526
11	26426	30	22754	49	23382
12	25125	31	18266	50	21126
13	23405	32	18369	51	28716
14	20837	33	20909	52	19353
15	23297	34	20343		
16	25317	35	22123		
17	19599	36	25295		
18	19599	37	18132		
19	27888	38	25704		

Adds the block tab for every import.

DT-2100 : Continuous Data Mode

Mar/30/2015 20:26

rev/min
19895

File Save
Restore
Stop

Max. 33173 Records 32
Min. 18627
Ave. 24961.5 Start Mar/30/2015 20:26
SD 3890.97 End

Start Trigger Limit (sec.) Upper Lower
0 0 30000.0 10000.0

Measurement Interval 100msec

Clear Block
Data Select
Graph

No.	rev/min	No.	rev/min
1	22342	20	32101
2	22144	21	29624
3	24397	22	30564
4	18627	23	23953
5	20659	24	28666
6	21530	25	33173
7	26320	26	28117
8	28837	27	22086
9	21118	28	20502
10	21120	29	27725
11	24221	30	29523
12	24390	31	19703
13	24390	32	28166
14	25562	33	22708
15	22120		
16	18930		
17	23250		
18	27914		
19	26995		

(2) Statistics Data

From the measurement data, calculates the maximum value/minimum value/average value/standard deviation (Max./Min./Ave./SD). Indicates and retains the data for every import.

The screenshot shows the DT-2100 Continuous Data Mode interface. The main display shows a large digital readout (DRO) of 14589 rev/min. Below the DRO, there are fields for statistics: Max. (36353), Min. (10156), Ave. (21814.7), and SD (5375.99). The Records field is set to 55. The Start and End times are both Mar/30/2015 20:22. The Data Select button is highlighted with a blue box. To the right, a table displays measurement data with columns for No., rev/min, No., rev/min, No., and rev/min. The table contains 19 rows of data.

No.	rev/min	No.	rev/min	No.	rev/min
1	25985	20	14705	39	34528
2	25808	21	20290	40	36353
3	19885	22	18774	41	33280
4	22674	23	18651	42	33280
5	29496	24	16090	43	29451
6	21921	25	19774	44	22193
7	23974	26	17361	45	22721
8	20352	27	18176	46	26949
9	21118	28	16349	47	22712
10	17600	29	16461	48	25564
11	17977	30	15237	49	23849
12	17977	31	20939	50	20631
13	24837	32	24954	51	16717
14	17883	33	17312	52	19255
15	22956	34	16448	53	22304
16	23902	35	22574	54	16721
17	18094	36	33203	55	21634
18	19347	37	16547		
19	23773	38	10156		

Calculate and holds the statistics data for every import.

(3) Exporting the measurement data

Select the arbitrary measurement data. Click the Data Select button to export the selected data.

The screenshot shows the DT-2100 Continuous Data Mode interface. The main display shows a large digital readout (DRO) of 14589 rev/min. Below the DRO, there are fields for statistics: Max. (28808), Min. (17573), Ave. (23000.5), and SD (2936.92). The Records field is set to 52. The Start time is Mar/30/2015 20:25 and the End time is Mar/30/2015 20:26. The Data Select button is highlighted with a blue box. To the right, a table displays measurement data with columns for No., rev/min, No., rev/min, No., and rev/min. The table contains 19 rows of data.

No.	rev/min	No.	rev/min	No.	rev/min
1	17573	20	23322	39	23792
2	21611	21	23721	40	19533
3	24435	22	26321	41	21427
4	28169	23	24278	42	20334
5	25397	24	22824	43	21178
6	21519	25	23302	44	20353
7	22902	26	25492	45	26974
8	20479	27	28808	46	26422
9	19791	28	28096	47	22183
10	22534	29	21768	48	25626
11	26426	30	22754	49	23382
12	25125	31	18266	50	21126
13	23405	32	18369	51	28716
14	20837	33	20909	52	19353
15	23297	34	20343		
16	25317	35	22123		
17	19599	36	25295		
18	19599	37	18132		
19	27888	38	25704		

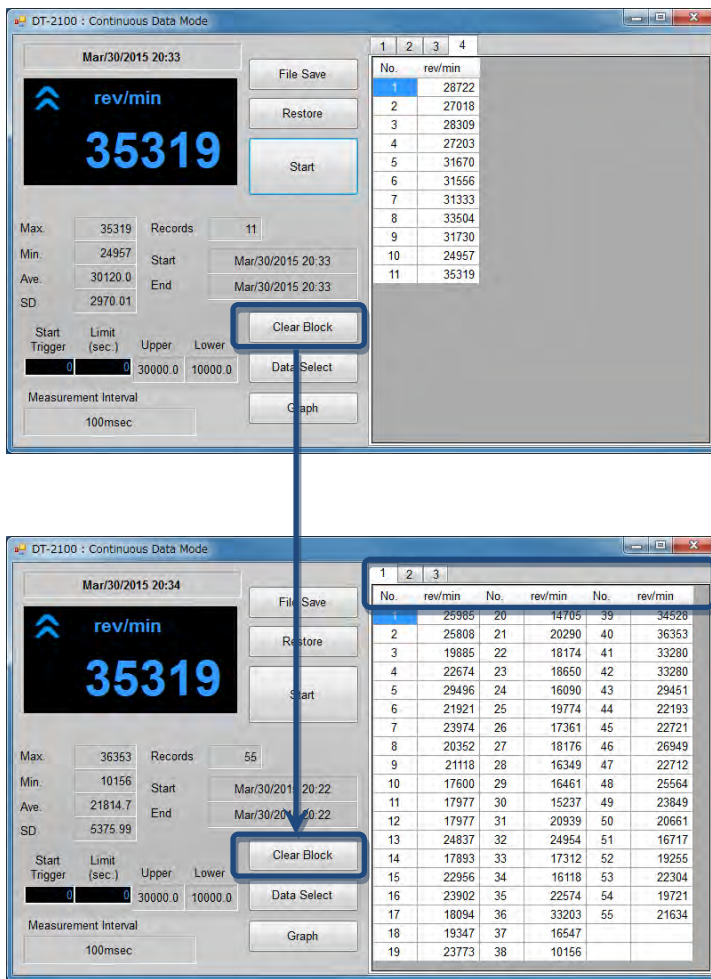
*Multiple data may be selected when you press and hold the Ctrl key while clicking cells with the mouse button. Groups may be highlighted and selected by dragging the mouse while holding the Ctrl key.

The screenshot shows the DT-2100 Continuous Data Mode interface. The main display shows a large digital readout (DRO) of 14589 rev/min. Below the DRO, there are fields for statistics: Max. (28808), Min. (20334), Ave. (23925.0), and SD (2454.87). The Records field is set to 36. The Start time is Mar/30/2015 20:25 and the End time is Mar/30/2015 20:26. The Data Select button is highlighted with a blue box. To the right, a table displays measurement data with columns for No., rev/min, No., and rev/min. The table contains 19 rows of data.

No.	rev/min	No.	rev/min
1	22534	20	20909
2	26426	21	20343
3	25125	22	22123
4	23405	23	25295
5	20837	24	25704
6	23297	25	23792
7	25317	26	21427
8	27888	27	20334
9	23322	28	21178
10	23721	29	20353
11	26321	30	26974
12	24278	31	26422
13	22824	32	22183
14	23302	33	25626
15	25492	34	23382
16	28808	35	21126
17	28096	36	28716
18	21768		
19	22754		

(4) Deleting the measurement data

Click the Clear Block button to delete the block tab that has been selected.



6.3 CSV File Operation

The measurement results can be saved in or read from the arbitrary CSV file.

- Save the measurement results in the CSV file

Click the File Save button to display the "Save as" dialog window.

Specify the arbitrary file name and save destination and click the save button to save the setting contents.

- Read the measurement results from the CSV file

Click the File Save button to display the "Open" dialog window.

Select the CSV file you want to open and click the "Open" button.

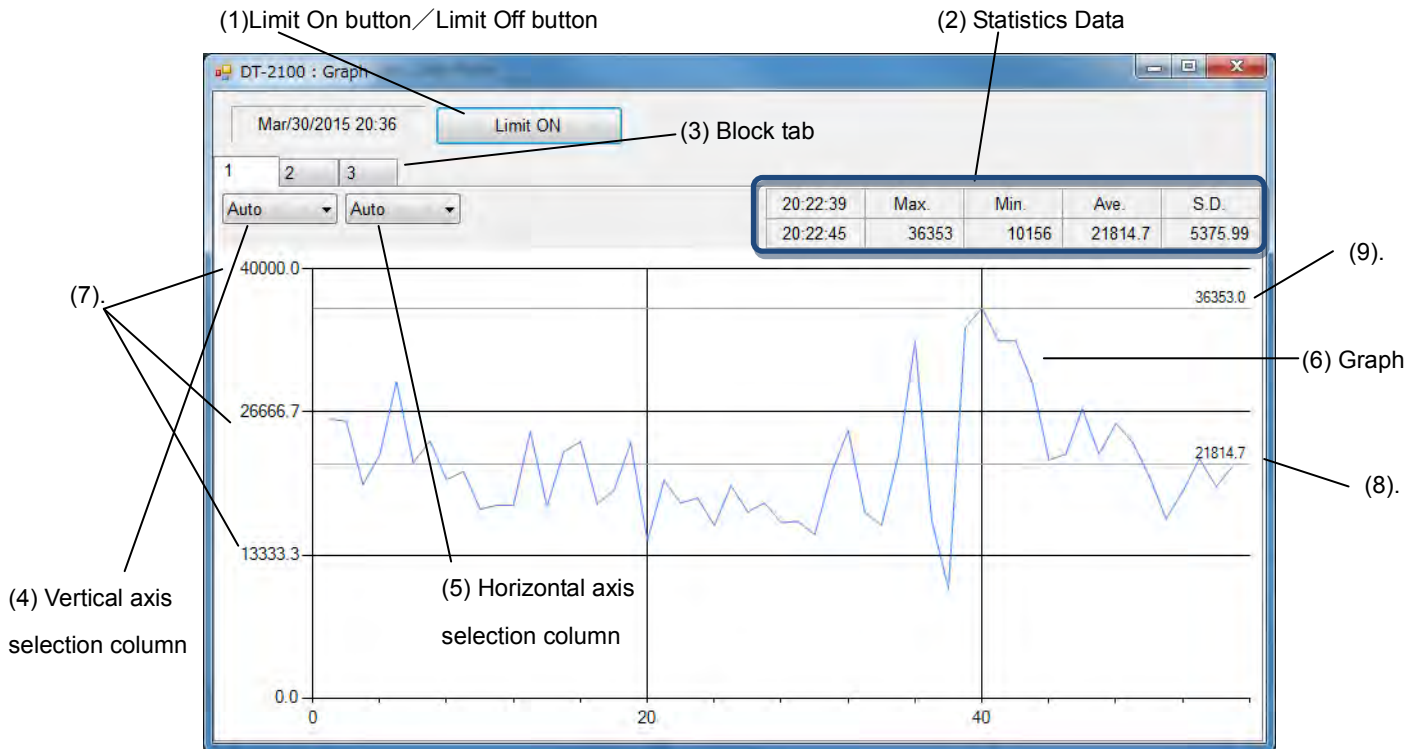
A new block tab is created and the measurement data as well as statistics data are displayed in the tab.

Only CSV files that have been saved with this application can be opened here.

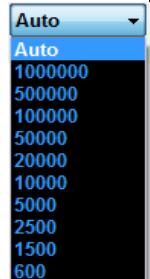
If you try to open files other than those specified above, they cannot be opened normally.

7. Graph Screen

Select the "Graph button" in the continuous data import screen to display the graph screen.



(1)Limit On button / Limit Off button	<p>Press the Limit On button to draw the upper/lower limit graph. The Limit On button then becomes the Limit Off button</p> <p>Press the Limit Off button to erase the upper/lower limit graph lines. The Limit Off button then becomes the Limit On button</p>
(2) Statistics data	<p>For the imported measurement data, indicates the maximum value/minimum value/average value/standard deviation, the number of measurement data, and the measurement start/end time. Updates during measurement.</p> <p>For the average value, when the integer part of the calculated result has x digits, the number of digits after decimal point becomes 6-x.</p>
(3) Block tab	Synchronized with the block tab in the continuous data import screen, stores the measurement data and statistics data.
(4) Vertical axis selection column	<p>Select the maximum value on the vertical axis and specify the measurement data range.</p> <p>Ranges depend on each unit setting.</p> <p>If the measurement data does not fit within the range, the scroll bar becomes enabled to allow you to scroll up or down the column.</p> <p>If the Auto setting is selected, it switches the range automatically based on the measured data.</p>



(5) Horizontal axis selection column	Select the maximum value on the horizontal axis. Auto: Automatically adjusts to the time during measurement. Limit: Applies the Limit setting in the USB main screen. When the Limit is 0, the range setting is same as that for the Auto. 10sec, 100sec, 300sec: Sets to the specified measurement time. If the measurement data exceeds the setting range, the scroll bar becomes enabled to allow you to scroll up and down the column.	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #e0e0e0; padding: 2px;">Auto</div> <div style="background-color: #000080; color: white; padding: 2px;">Auto</div> <div style="background-color: #000080; color: white; padding: 2px;">Limit</div> <div style="background-color: #000080; color: white; padding: 2px;">10sec</div> <div style="background-color: #000080; color: white; padding: 2px;">100sec</div> <div style="background-color: #000080; color: white; padding: 2px;">300sec</div> </div>
(6) Graph	Indicates the real-time graph.	
(7) Graph values	Indicates the maximum graph value divided into three	
(8) Average value	Indicates the average value of measured data	
(9) Max value	Indicates the maximum value of measured data	

7.1 Graph Drawing

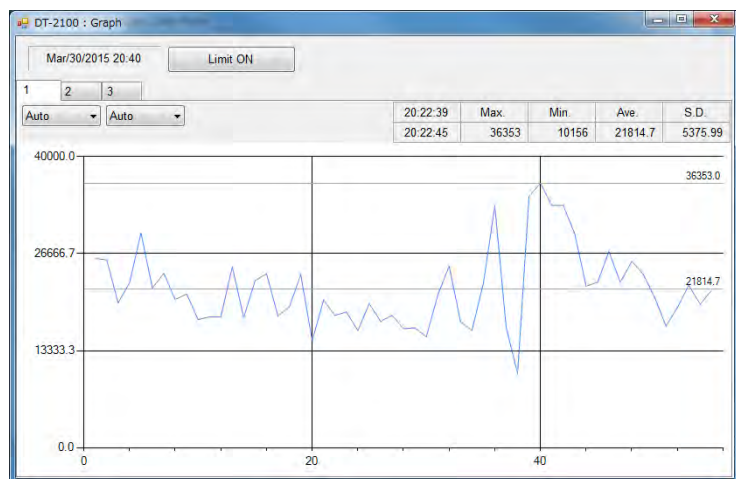
(1) Synchronization of measurement data and statistics data with the continuous data import screen

The graph and statistics data to be displayed are synchronized with the block tab in the continuous data import screen.

The 1st measured data

Max.	36353
Min.	10156
Ave.	21814.7
SD	5375.99

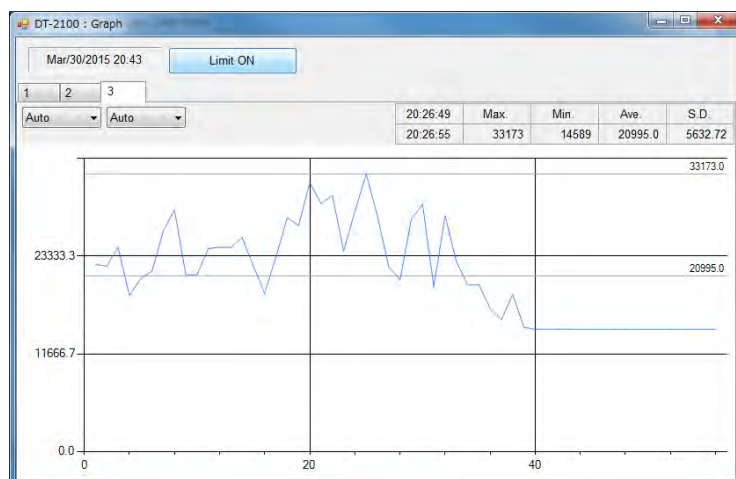
No.	rev/min	No.	rev/min	No.	rev/min
1	25985	20	14705	39	34528
2	25808	21	20290	40	36353
3	19885	22	18174	41	33280
4	22674	23	18650	42	33280
5	29496	24	16090	43	29451
6	21921	25	19774	44	22193
7	23974	26	17361	45	22721
8	20352	27	18176	46	26949
9	21118	28	16349	47	22712
10	17600	29	16461	48	25564
11	17977	30	15237	49	23849
12	17977	31	20939	50	20661
13	24837	32	24954	51	16717
14	17893	33	17312	52	19255
15	22956	34	16118	53	22304
16	23902	35	22574	54	19721
17	18094	36	33203	55	21634
18	19347	37	16547		
19	23773	38	10156		



The 3rd measured data

Max.	33173
Min.	14589
Ave.	20995.0
SD	5632.72

No.	rev/min	No.	rev/min	No.	rev/min
1	22342	20	32101	39	14810
2	22144	21	29624	40	14589
3	24397	22	30564	41	14589
4	18627	23	23953	42	14589
5	20659	24	28666	43	14589
6	21530	25	33173	44	14589
7	26320	26	28117	45	14589
8	28837	27	22086	46	14589
9	21118	28	20502	47	14589
10	21120	29	27725	48	14589
11	24221	30	29523	49	14589
12	24390	31	19703	50	14589
13	24390	32	28166	51	14589
14	25562	33	22708	52	14589
15	22120	34	19895	53	14589
16	18930	35	19902	54	14589
17	23250	36	17097	55	14589
18	27914	37	15756	56	14589
19	26995	38	18771		



(2) Switching the display of the upper/lower limit graph

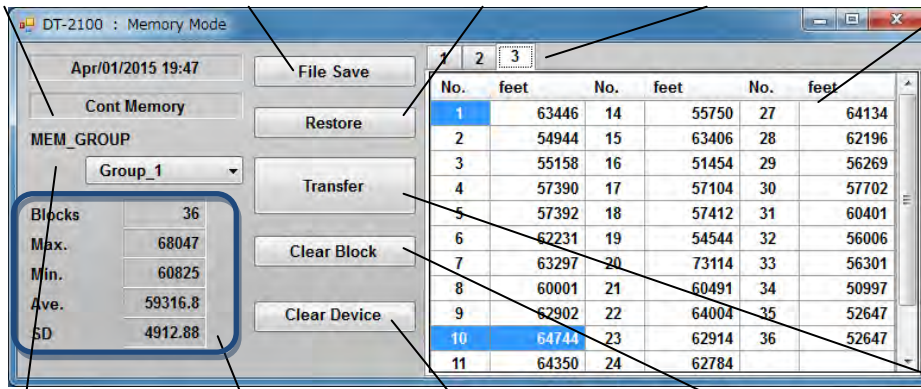
Use the Limit On button/Limit Off button to switch between displaying and hiding of the upper/lower limit graph.



8. Memory Data Import Screen

Select the "MEM_DATA_TRANSFER" button in the menu to display the memory data import screen.

- (1) Memory mode (2) File Save button (3) Restore button (4) Block tab (5) Memory data



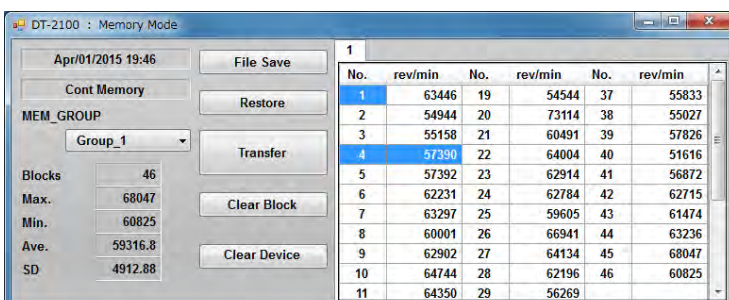
- (6) MEM_GROUP (7) Statistics data (8) Clear Device button (9) Clear Block button (10) Transfer button

(1) Memory mode	Indicates the memory mode specified in the user setting.
(2) File Save button	Indicates the save destination folder selection screen. Saves the memory data being displayed to the file in the CSV format.
(3) Restore button	Indicates the file selection screen. Creates a new block, and reads the selected memory data into it.
(4) Block tab	Indicates the measurement data every time the memory data is read from the DT-2100. Up to 1000 blocks.
(5) Memory data	Indicates the memory data that has been read. The contents depend on the measurement mode (continuous memory/each memory/statistics memory).
(6) MEM_GROUP	Select the MEM_GROUP.
(7) Statistics Data	Indicates the maximum value, minimum value, average value, and standard deviation for the selected block number. Indicates the number of memory data in Blocks.
(8) Clear Device button	Click this button to display the confirmation screen. Click OK to delete the memory data for the MEM_GROUP that has been selected.
(9) Clear Block button	Click this button to display the confirmation screen. Click OK to delete the block that has been selected.
(10) Transfer button	Reads the memory data for the MEM_GROUP that has been selected.

8.1 Continuous Memory

Displays "No." and the corresponding "measurement value" recorded on the first row of the memory data, and the serial number and memory data below them.

Indicates the statistics data corresponding to the memory data on the statistics data column.



8.2 Each Memory

Displays "No." and the corresponding "measurement value" on the first row of the memory data, and the serial number and memory data below them.

Indicates the statistics data corresponding to the memory data on the statistics data column.

The screenshot shows the 'DT-2100 : Memory Mode' window. On the left, the 'Each Memory' section displays statistics for 'Group_1': Blocks: 35, Max.: 63424, Min.: 51773, Ave.: 54487.9, SD: 4747.64. The main table shows 11 rows of memory data with columns for No., rev/min, No., rev/min, No., and rev/min.

No.	rev/min	No.	rev/min	No.	rev/min
1	63424	14	57265	27	55004
2	59182	15	56351	28	56890
3	57476	16	57399	29	62097
4	62145	17	47073	30	50118
5	58363	18	56880	31	53979
6	50532	19	53808	32	52540
7	56911	20	49502	33	54444
8	60397	21	49722	34	53208
9	57446	22	43067	35	51773
10	47010	23	55156		
11	56707	24	51603		

8.3 Statistics Memory

Indicates "No.", "MAX", "MIN", "AVE", and "SD" on the first row of the memory data, and the serial number and memory data below them.

Indicates the selected memory data on the statistics data column.

The screenshot shows the 'DT-2100 : Memory Mode' window. On the left, the 'Stats Memory' section displays statistics for 'Group_1': Blocks: 5, Max.: 64015, Min.: 55130, Ave.: 60071.3, SD: 4937.94. The main table shows 5 rows of memory data with columns for No., MAX, MIN, AVE, and SD.

No.	MAX	MIN	AVE	SD
1	64015	55130	60071.3	4937.94
2	65674	63753	61556.0	3861.07
3	65231	53925	58093.2	4492.53
4	61056	56036	57399.8	3297.56
5	60241	57858	57074.3	4727.04

8.4 CSV File Operation

The measurement results can be saved in or read from the arbitrary CSV file.

• Save the measurement results in the CSV file

Click the File Save button to display the "Save as" dialog window.

Specify the arbitrary file name and save destination. Click the save button to save the setting contents.

• Read the measurement results from the CSV file

Click the File Save button to display the "Open" dialog window.

Select the CSV file you want to open and click the "Open" button.

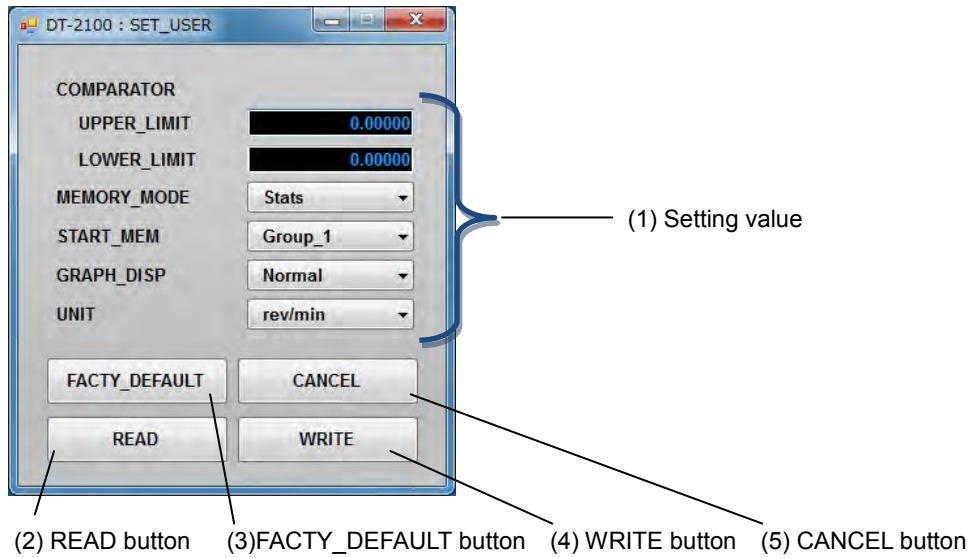
A new block tab is created and the measurement data as well as statistics data are displayed in the tab.

Only CSV files that have been saved with this application can be opened here.

If you try to open files other than those specified above, they cannot be opened normally.

9. SET_USER Screen

Select "SET_USER" button in the menu to display the SET_USER screen.

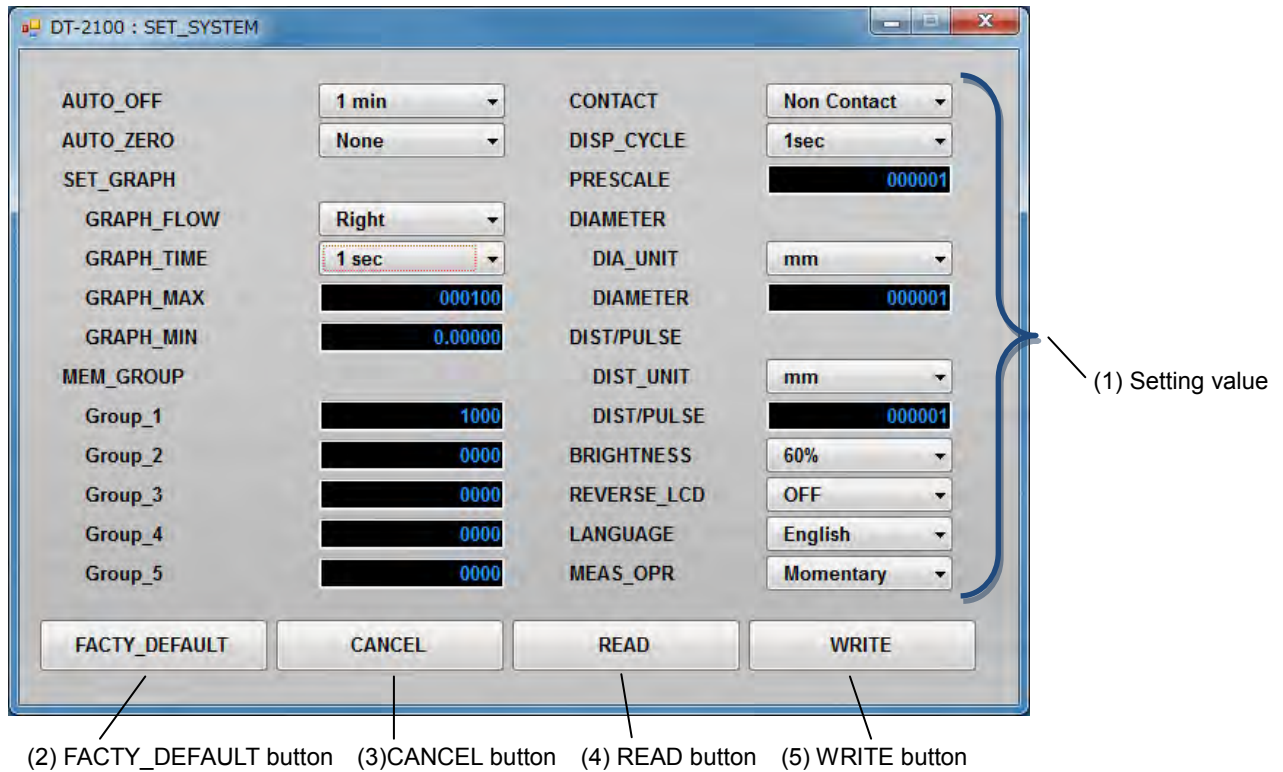


(1) Setting value	COMPARATOR	—
	UPPER_LIMIT	Enter 0.00000 to 999999 (0.00000)
	LOWER_LIMIT	Enter 0.00000 to 999999 (0.00000)
	MEMORY_MODE	Select from Cont , Each, or Stats
	START_MEM	Select from Group_1 , Group_2, Group_3, Group_4, or Group_5
	GRAPH_DISP	Select from Normal , Graph_1, Graph_2, or Graph_3
	UNIT	Select from the following items rev/min , m/min, cm/min, inch/min, feet/min, yards/min, rev/sec, m/sec, cm/sec, inch/sec, km/h, miles/h, cm, m, km, inch, feet, yards, or STP
(2) READ button	Reads the current user setting information from the DT-2100.	
(3) FACTY_DEFAULT button	Indicates the factory default values.	
(4) WRITE button	Saves the user setting in the DT-2100 and returns to the main screen. If the MEMORY_MODE value is different from the current setting value in the DT-2100, the confirmation message (OK/Cancel) is displayed.	
(5) CANCEL button	Returns to the main screen without saving the changed content.	

Note: default value indicated in bold letters

10. SET_SYSTEM Screen

Select "SET_SYSTEM" button in the menu to display the SET_SYSTEM screen.



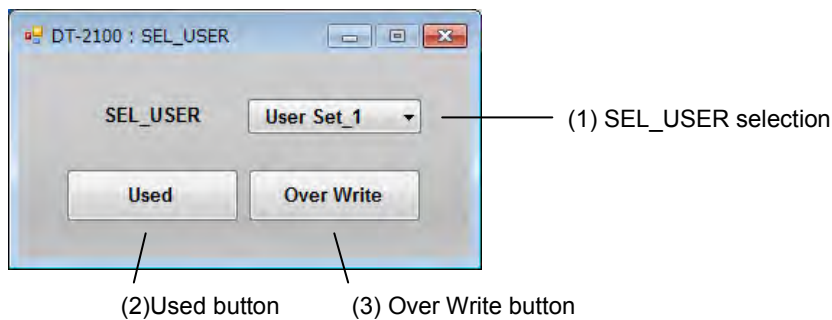
(1) Setting value	AUTO_OFF	Select from 1min , 10min, or 30min
	AUTO_ZERO	Select from 1sec, 10sec, 30sec, 60sec, or None
	SET_GRAPH	—
	RAPH_FLOW	Select Right or Left
	GRAPH_TIME	Select from 1sec , 10sec, 50sec, or 100sec
	GRAPH_MAX	Enter 0.00001 to 999999 (000100)
	GRAPH_MIN	Enter 0.00000 to 999999 (0.00000)
	MEM_GROUP	—
	Group_1	0 to 1000 /100/100 (Cont/Each/Stats)
	Group_2	0 to 1000/100/100 (Cont/Each/Stats)
	Group_3	0 to 1000/100/100 (Cont/Each/Stats)
	Group_4	0 to 1000/100/100 (Cont/Each/Stats)
	Group_5	0 to 1000/100/100 (Cont/Each/Stats)
	CONTACT	Select from Contact, Non Contact , Auto, or Contact(Low)
	DISP_CYCLE	100msec, 500msec, 1sec , 5sec
	PRESCALE	Enter 0.00001 to 999999 (000001)
	DIAMETER	—
	DIA_UNIT	Select from mm , cm, m, inch, feet, or yards
	DIAMETER	Enter 0.00001 to 999999 (000001)

	DIST/PULSE	—
	DIST_UNIT	Select from mm , cm, m, inch, feet, or yards
	DIST/PULSE	Enter 0.00001 to 999999 (000001)
	BRIGHTNESS	Select from 20%, 40%, 60% , 80%, or 100%
	REVERSE_LC D	Select OFF or ON
	LANGUAGE	Select Japanese or English
	MEAS_OPR	Select Momentary or Continuous
(2) FACTY_DEFAULT button	Overrides the factory default values.	
(3) CANCEL button	Returns to the main screen without saving the changed content.	
(4) READ button	Reads the current system setting information from the DT-2100.	
(5) WRITE button	Saves the system setting in the DT-2100 and returns to the main screen.	

Note: default value indicated in bold letters

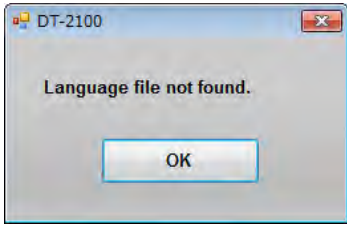
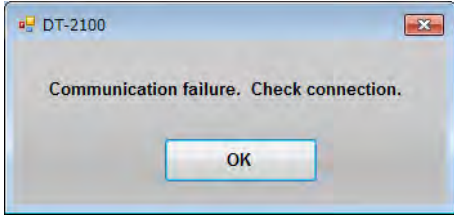
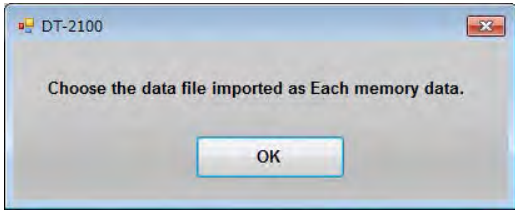
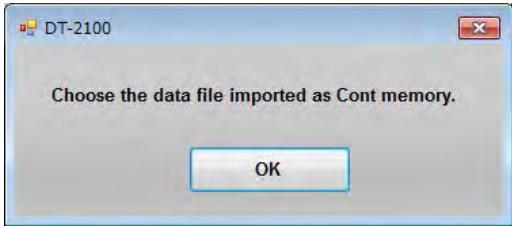
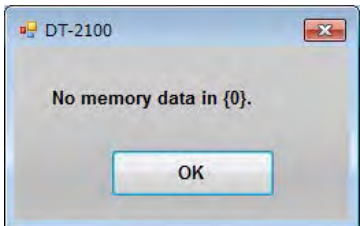
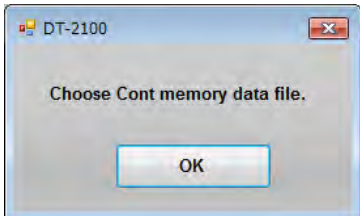
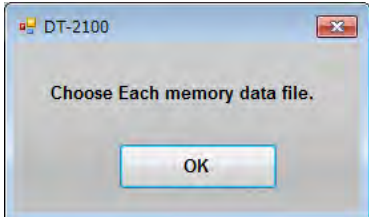
11. SEL_USER Screen

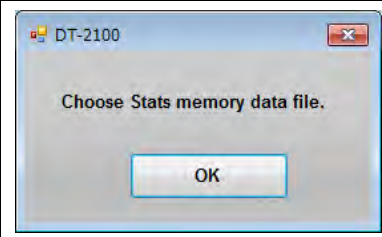
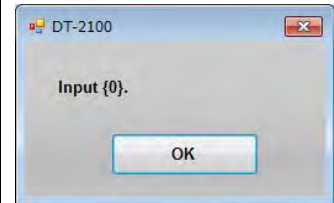
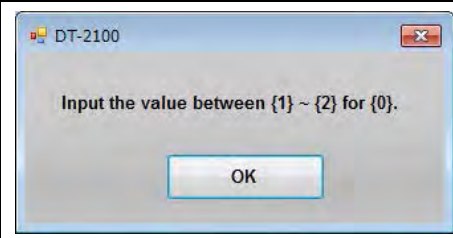
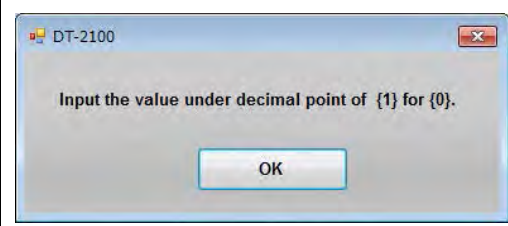
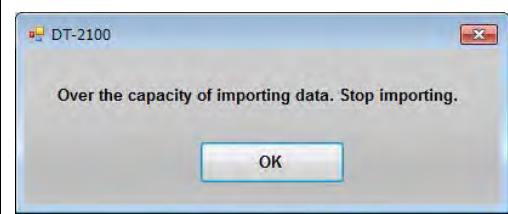
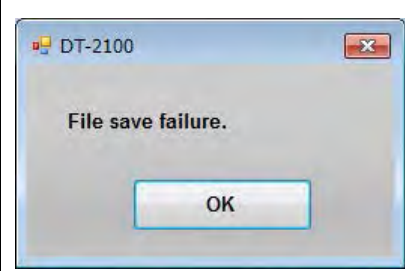
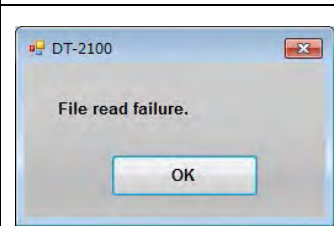
Select "SEL_USER button" in the menu to display the SEL_USER screen.

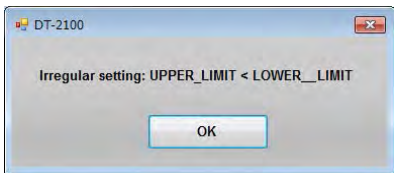
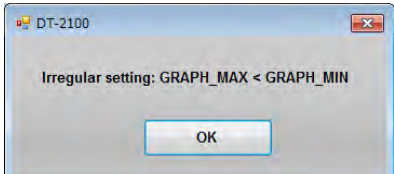
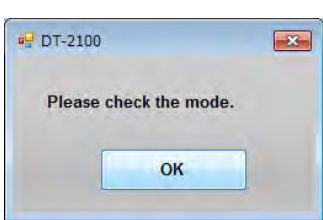
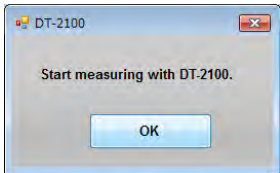
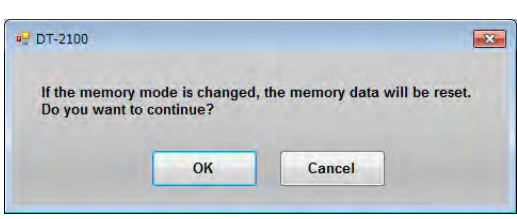
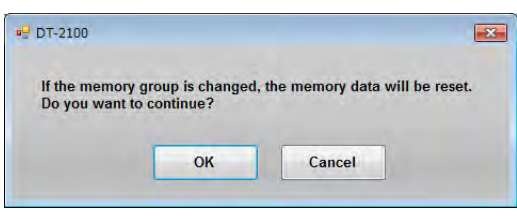
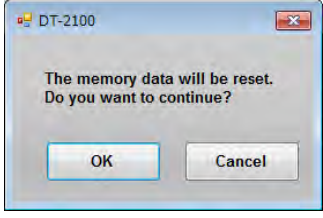
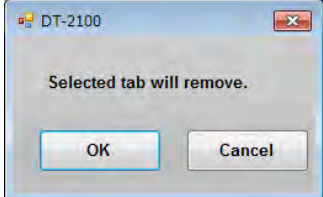


(1) SEL_USER selection	Select SEL_USER from User Set_1, User Set_2, or User Set_3.
(2) Used button	Reads the user setting and system setting contents for the selected SEL_USER.
(3) Over Write button	Writes the contents specified in the user setting and system setting for the selected SEL_USER.

12. Error Message List

Error Message	Cause	Countermeasure
 <p>DT-2100 Language file not found. OK</p>	A valid localized file does not exist in the "lc" folder	Perform reinstallation of this application.
 <p>DT-2100 Communication failure. Check connection. OK</p>	The DT-2100 cannot communicate normally with PC Or the COM port number is incorrect	<ul style="list-style-type: none"> · Check communication between the DT-2100 and PC, as well as the power supply. · Check the COM port number from the Device Manager.
 <p>DT-2100 Choose the data file imported as Each memory data. OK</p>	Tried to open continuous data CSV file in the MEM_DATA_TRASFER screen.	Open the measurement data saved in the memory data import screen.
 <p>DT-2100 Choose the data file imported as Cont memory. OK</p>	Tried to open memory data CSV file in the CONT_DATA_TRASFER screen.	Open the measurement data saved in the measurement data import screen.
 <p>DT-2100 No memory data in {0}. OK</p>	There is no memory data in the group where the memory is imported	<p>Create the memory data.</p> <p>*The target group is shown in {0}.</p>
 <p>DT-2100 Choose Cont memory data file. OK</p>	In the memory data import screen (continuous memory mode), tried to open the measurement data saved in modes other than the continuous memory mode	Open the measurement data saved in the continuous memory mode
 <p>DT-2100 Choose Each memory data file. OK</p>	In the memory data import screen (each memory mode), tried to open the measurement data saved in modes other than the each memory mode	Open the measurement data saved in the each memory mode

	<p>In the memory data import screen (statistics memory mode), tried to open the measurement data saved in modes other than the statistics memory mode</p>	<p>Open the measurement data saved in the statistics memory mode</p>
	<p>There is a blank in the input item of the user setting screen and/or system setting screen</p>	<p>Enter the value in the item. *The target item name is shown in {0}.</p>
	<p>There is the value beyond the specified range in the input item of the user setting screen and/or system setting screen</p>	<p>Enter the correct value within the specified range. *The target item name is shown in {0}. *The lower limit value of the range is shown in {1}. *The upper limit value of the range is shown in {2}.</p>
	<p>There is a wrong input item of the user setting screen and/or system setting screen</p>	<p>Enter the correct value.</p>
	<p>When reading files for data measurement and continuous data, the number of tab blocks exceeds the maximum number</p>	<p>Delete the existing tab blocks so that the maximum number of the tab blocks does not exceed 1000.</p>
	<p>An error occurred while saving a file.</p>	<ul style="list-style-type: none"> · Check that the save destination folder exists. If not, create a folder. · Check that you have write permission into the save destination folder. If not, perform the write permission setting. · Check that the free space is sufficient on the drive. If not, secure the free space.
	<p>An error occurred while reading a file</p>	<p>The file may be corrupt. Select the file in the correct format.</p>

	<p>In the user setting screen, the LOWER_LIMIT value is higher than the UPPER_LIMIT value</p>	<p>Set the UPPER_LIMIT value higher than the LOWER_LIMIT value.</p>
	<p>In the system setting screen, the GRAPH_MIN value is higher than the GRAPH_MAX value</p>	<p>Set the GRAPH_MAX value higher than the GRAPH_MIN value.</p>
	<p>Measurement data cannot be imported correctly from the DT-2100</p>	<p>Check that the DT-2100 is in the correct mode for measurement.</p>
	<p>The Start button was pressed when the DT-2100 was not in the measurement mode</p>	<p>Start measurement.</p>
	<p>This message is displayed when you have changed the memory mode value in the user setting screen, and have clicked the WRITE button.</p>	<p>Select "OK" to initialize the memory data, and switch the memory mode. Select "Cancel" to avoid switching the memory mode.</p>
	<p>This message is displayed when you have changed the memory group value in the system setting screen, and have clicked the WRITE button.</p>	<p>Select "OK" to initialize the memory data, and change the memory group. Select "Cancel" to avoid changing the memory group.</p>
	<p>This message is displayed when you have clicked the Clear Device button in the memory data import screen.</p>	<p>Select "OK" to initialize the memory data. Select "Cancel" not to initialize the memory data.</p>
	<p>This message is displayed when you have clicked the Clear Block button in the memory data import screen.</p>	<p>Select "OK" to delete the selected tab. Select "OK" not to delete the selected tab.</p>

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