Magnescale

Software MeasureViewer (J)

Read all the instructions in the manual carefully before use and strictly follow them. Keep the manual for future references. This instruction manual corresponds to the software Ver. 1.1.0.

Instruction Manual

Trademarks

Microsoft Windows Excel is a registered trademark of Microsoft Corporation. Intel® Core[™]i5 is a registered trademark of Intel Corporation. Install Shield® is a registered trademark of Flexera Software, Inc. Other system names, product and service names described in the instruction manual are trademarks or

registered trademarks of their corresponding manufacturers.

IN NO EVENT WILL MAGNESCALE CO., LTD. OR ITS SUPPLIERS BE LIABLE FOR ANY CONSEQUENTIAL OR INCONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, LOST PROFITS, LOST SAVINGS, OR ANY THIRD PARTY CLAIMS ARISING OUT OF USE OF THE SOFTWARE AND PROTECTION DONGLE DESCRIBED IN THIS MANUAL. The specifications of this software may be changed without prior notice.

This application has been confirmed to operate properly on Microsoft Windows 11, version 22H2. Its operation is not guaranteed on Microsoft Windows 7 and future updates of Microsoft Windows 10 / 11.

Contents

1.	Outline	1
1-1. 1-2.	Introduction Major functions	
2.	System environment and setup	2
2-1. 2-2. 2-3.	Recommended operating environment	2
3.	Installation/uninstallation	3
3-1. 3-2.		
4.	Starting up and ending the application	8
4-1. 4-2.	8 1	
5.	Window composition	10
5. 5-1.	-	
	Area composition	10
5-1.	Area composition Changing the layout of the areas	10 10
5-1. 5-2. 5-3.	Area composition Changing the layout of the areas	10 10 11
5-1. 5-2. 5-3.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations	10 10 11
5-1. 5-2. 5-3. 6.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations	10 10 11
5-1. 5-2. 5-3. 6.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area	10 10 11 12 12 12
5-1. 5-2. 5-3. 6.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display	10 10 11 12 12 12 12 12 13
5-1. 5-2. 5-3. 6.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display 6-1-2. Selecting the measurement value display	10 10 12 12 12 12 12 12 12 12 12
5-1. 5-2. 5-3. 6.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display 6-1-2. Selecting the measurement value display 6-1-3. Selecting the measurement mode 6-1-4. Selecting the unit 6-1-5. Center value setting	10 10 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 13 13 14 14 14
5-1. 5-2. 5-3. 6.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display 6-1-2. Selecting the measurement value display 6-1-3. Selecting the measurement mode 6-1-4. Selecting the unit 6-1-5. Center value setting 6-1-6. Measurement value operations	10 10 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 13 14 14 14 15 15
5-1. 5-2. 5-3. 6. 6-1.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display 6-1-2. Selecting the measurement value display. 6-1-3. Selecting the measurement mode. 6-1-4. Selecting the unit 6-1-5. Center value setting. 6-1-6. Measurement value operations.	10 10 12 13 14 16 16
5-1. 5-2. 5-3. 6.	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display 6-1-2. Selecting the measurement value display 6-1-3. Selecting the measurement mode 6-1-4. Selecting the unit 6-1-5. Center value setting 6-1-6. Measurement value operations 6-1-7. Detailed settings Line chart area Image: Context area	10 10 11 12 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
 5-1. 5-2. 5-3. 6-1. 6-2. 	Area composition Changing the layout of the areas. Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display 6-1-2. Selecting the measurement value display. 6-1-3. Selecting the measurement mode. 6-1-4. Selecting the unit 6-1-5. Center value setting. 6-1-6. Measurement value operations. 6-1-7. Detailed settings. Line chart area 6-2-1. Line chart zoom-in/out and tracker display.	10 12 13 14 15 15
 5-1. 5-2. 5-3. 6-1. 6-1. 6-2. 6-3. 	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1 Measurement value display 6-1-2 Selecting the measurement value display. 6-1-3 Selecting the measurement mode 6-1-4 Selecting the unit 6-1-5 Center value setting. 6-1-6 Measurement value operations 6-1-7 Detailed settings. Line chart area 6-2-1 Line chart zoom-in/out and tracker display	10 12 13 14 15 16 10 12
 5-1. 5-2. 5-3. 6-1. 6-2. 	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1. Measurement value display 6-1-2. Selecting the measurement value display 6-1-3. Selecting the measurement mode 6-1-4. Selecting the unit 6-1-5. Center value setting 6-1-6. Measurement value operations 6-1-7. Detailed settings Line chart area 6-2-1. Line chart zoom-in/out and tracker display Data area Common functions	10 12 13 14 15 16 10 12
 5-1. 5-2. 5-3. 6-1. 6-1. 6-2. 6-3. 	Area composition Changing the layout of the areas Changing the layout of the measuring unit displays Functions and operations Measuring unit area 6-1-1 Measurement value display 6-1-2 Selecting the measurement value display. 6-1-3 Selecting the measurement mode 6-1-4 Selecting the unit 6-1-5 Center value setting. 6-1-6 Measurement value operations 6-1-7 Detailed settings. Line chart area 6-2-1 Line chart zoom-in/out and tracker display	10 10 11 12

7.	Troubleshooting	25
7-1.	An alarm occurred	.25
7-2.	The installation failed	.25
7-3.	The application won't start	.25
7-4.	A measuring unit is not displayed, or the numeric values are not updated	26
7-5.	Data cannot be acquired	.27
7-6.	The application suddenly shuts down	.27

1. Outline

1-1. Introduction

MeasureViewer is a software application (the application) that displays values measured by measuring units on a PC running Microsoft Windows (the PC).

To use the application, you must connect a compatible measuring unit (or units) to the PC.

About the dedicated protection dongle

A dedicated protection dongle is required at all times when using the application. Even if the application is properly installed on the PC, a forced shutdown will occur after five minutes if the protection dongle is not connected to one of the PC's USB ports.

1-2. Major functions

Measurement value display

- Display format selection (numeric value, bar display, analog meter)
- Current value, minimum value, maximum value, P-P value
- Four-step threshold value judgment
- Line chart (all axes)
- Display range switching
- mm/µm unit switching

Data output

- Selection and storage of current value, minimum value, maximum value, or P-P value
- Output (saving) of acquisition interval, measurement values, and threshold determinations in CSV format
- Output of line charts (image, CSV data)

Operations

- Measurement value display format switching (numeric value, bar meter, analog meter)
- Decimal point setting
- Reset, preset, peak hold, latch, start
- Preset value setting
- Threshold setting
- Cyclic data acquisition
- Designation of data save format (Selectable from Japanese, U.S., or European formats)

2-1. Compatible measuring units

Manufactured by Magnescale Co., Ltd.

Measuring unit	Description
DS800S series DS series	Measuring unit for USB connection
DT series	An MT30 series interpolator (sold separately) is required for USB connection.

Number of measuring units that can be connected

Up to 16

2-2. Recommended operating environment

Microsoft Windows 10 / 11
Intel Core i5-1135G7 or equivalent or higher is recommended
32-bit: 2 GB or more recommended 64-bit: 4 GB or more recommended
Min. 200 MB
1,280 × 800 or higher recommended
USB 2.0 or higher
.NET Framework 4.6 or later

(*) The description in this instruction manual uses Microsoft Windows 11 screens.

The following software programs are also installed when the application is installed.

- USBSerial4MgsGauge.ocx : ActiveX is required for communication with the measuring unit.
- Microsoft VisualC++ 2017 SP1 runtime : ActiveX operating environment

Note

- Microsoft VisualC++ 2017 SP1 runtime is not automatically uninstalled when the application is uninstalled. When uninstallation is necessary, uninstall each software program separately.
- This recommended operating environment does not guarantee operation on all PCs. The operation of other applications may affect the operation of this application.

2-3. PC settings

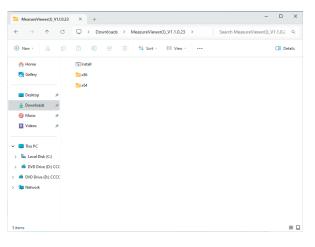
Disable sleep mode on the PC.

If the PC enters sleep mode, operation may be unstable after it awakes from sleep.

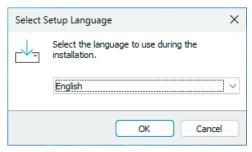
3. Installation/uninstallation

3-1. Installation

- **1** Insert the Installer USB Memory into a USB port of the PC.
- **2** Double-click the MeasureViewer folder in the USB memory.
- **3** Double-click "Install.bat (or Install)." Installation starts.

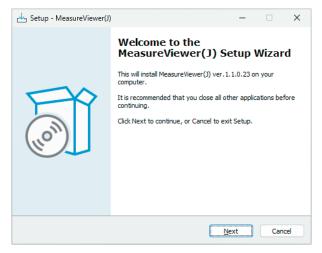


4 Select the installation language and click the "OK."



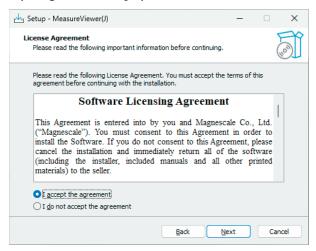
The Welcome to the MeasureViewer Setup Wizard window appears.

5 Click the "Next."



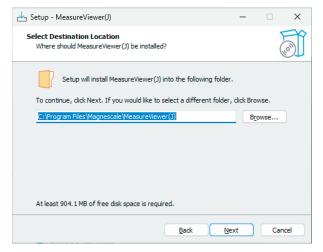
The Software License Agreement appears.

6 If you agree to the displayed license conditions, select "I accept the agreement" and then click "Next."



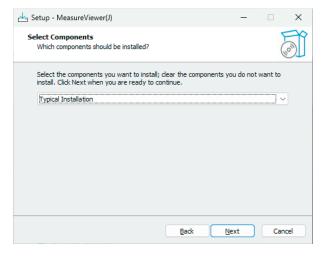
The Select Destination Location window appears.

7 Select the install destination location and then click the "Next."



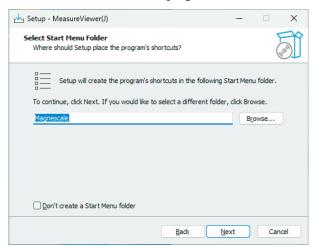
The Select Components window appears.

8 Click "Next."



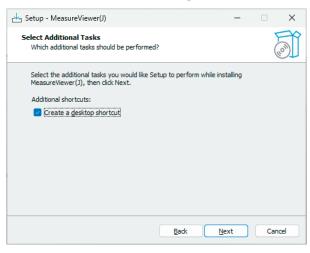
The Select Start Menu Folder window appears.

9 Select the folder in which the program's shortcuts will be created and click "Next."



The Select Additional Tasks window appears.

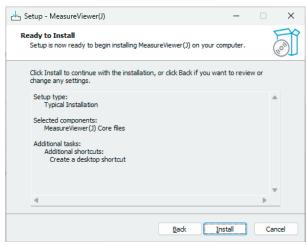
10 Check the box for Create a desktop shortcut if desired, and click "Next."



This completes the preparations for installation.

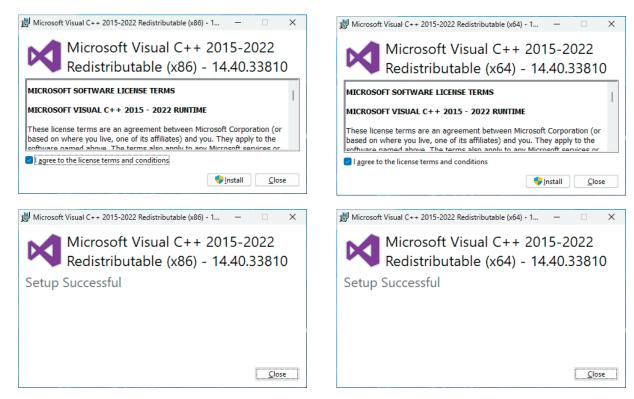
11 Click "Install."

Installation starts.

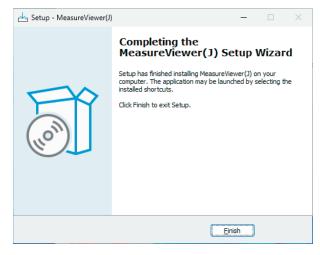


12 In parallel with installation of the application, the runtime required for operation of the measuring unit is also installed. Check the box for I agree to the license terms and conditions and then click "Install."

In a 64-bit environment, the installation windows for x86 and x64 appear. Install both runtimes.



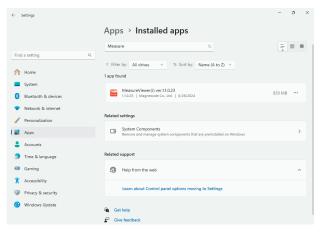
13 When the following window appears, click "Finish."



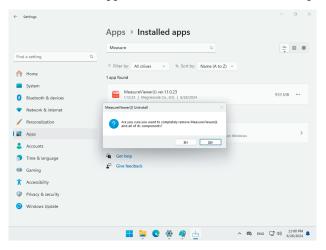
The installation is complete.

3-2. Uninstallation

1 On the Start menu, select "Settings" \rightarrow "Apps" \rightarrow "Installed apps".



2 Under "Installed apps," select MeasureViewer and then perform the uninstall procedure.



3 When "MeasureViewer was successfully removed from your computer." is displayed, uninstallation is complete.

← Settings	- o ×
	Apps > Installed apps
	Measure Q
Find a setting Q	
Home System	⊽ Filter by: All drives ∨ 14: Sort by: Name (A to Z) ∨ We couldn't find anything to show here. Double check your search criteria.
8 Bluetooth & devices	Related settings
Network & internet	MeasureViewer(J) Uninstall X
🥖 Personalization	MessureViewer(I) was successfully removed from your Ind on Windows
Apps	
💄 Accounts	Give feedback
3 Time & language	
🚳 Gaming	
🕇 Accessibility	
Privacy & security	
Windows Update	
	🔡 📜 💽 🔅 🦓 📥 🔷 🗠 ENG 🖫 40 11/01 PM 🌲

4 To uninstall the Microsoft VisualC++ 2017 SP1 runtime, select VisualC++ 2017 for uninstallation using the procedure described in steps 1 and 2 above.

4. Starting up and ending the application

4-1. Starting up MeasureViewer

- **1** Confirm that the protection dongle is connected to one of the PC's USB ports.
- **2** Click the shortcut created during the installation process.
- MeasureViewer starts.

All the measuring units currently recognized by the PC are displayed in the measuring unit (Gauges) area.

Measure Viewer									ø ×	
Measure Viewer ()) Ver. 1.1.0							License	Mag	nescale	
Work Name:	Axis Counts 1	Preset(F2)	Peak hold(F3)	Latch(F4)	Start(F5)	Reset(F6)	∽ ←	→		
Measuring units									×	7
0 ↓ Mar +0.0001 Min: 0.0000 P.P. +0.001 D0103,30% Min: 0.000 P.P. +0.001 0.0001 0.0000 P.P. +0.001 0.0001 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000 0.00000 0.00000 0.000									Layout Setting	Measuring unit area
Line Chart									×	
Clear drawing 🔀 X-Axis Span:		10 [s]			Y-Axis Ra	nge 🗖 Auto Max Min		10 -10	ave Data	
0.00000										
00:00:00 00:00:00 00:00:00	00:00:00 00:00:00	00:00:00	00:00:00 00:	00:00 00:00	:00 00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	
Data									×	
Ō (F8) Interval 00:00:01.0 (0.1 s - 24 h)	Saved	l in CSV format wh	en setting data i	reached					
± (F7)		Obtai	ining judgment re	esults						
Save Data 0 / 100 [Count]								Clear	Save As	
Index TimeStamn WorkName DS812SR 200165 DS Page 1 of 1	R175R 200165 MaacuroV	loda						141 - 4	1 H H	
Setting										
Alarm:										

If data previously acquired exists

The following message appears when the application is started. To restore the previous data, click "OK."



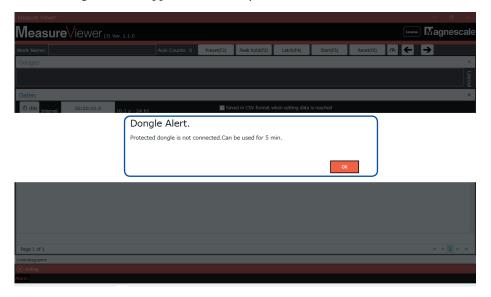
Note

Leave the protection dongle connected to the PC's USB port while the application is in use. The software license is not recognized if the protection dongle is not connected, and a forced shutdown occurs after five minutes has elapsed.

Window displayed if software license (protection dongle) is not recognized

< License alert message >

After clicking "OK", the application can only be used for five more minutes.



< App shutdown message >

After five minutes has elapsed, an app shutdown message appears followed by a forced shutdown.

Measure Viewer										
Measure√iewer₀									⊩ M agr	nescale
Work Name:			Preset(F2)	Peak hold(F3)	Latch(F4)	Start(F5)	Reset(F6)	^ ←	→	
Gauges										×
Daten										×
(F8) Interval 00:00:01.0	(0.1 s - 24 h)		Sav	ed in CSV format v	when setting data	is reached				
		le Alert. d dongle is not co	onnected. App	lication will clo	se.					
Page 1 of 1									144 - 44	1 » н
Liniendiagramm										
Setting										

4-2. Ending MeasureViewer

Click the "× (Close)" at the upper right corner of the MeasureViewer window to end the application. When ending the application, the following message appears. Click "OK" to end MeasureViewer.

Warning		×
<u> </u>	Would you exit the a	application?
	Yes	No

5. Window composition

5-1. Area composition

The MeasureViewer window is composed of three areas.

Measure Viewer - 🗗 🗙	Application information/
Measure Viewer (1) Ver. 1.1.0	measurement value display
Work Name: Axis Counts 3 Preset(F2) Peak hold(F3) Latch(F4) Start(F5) Reset(F6) 🕥 🗲 🗲	operations
Measuring units ×	1
	Measuring unit area
Line Chart ×	Line chart area
	=
Data X Č (F6) Internet 00:00:01.0 (0.1 s - 24 h) Saved in CSV format when setting data is reached	
O (F8) Interval 00:00:01.0 (0.1 s - 24 h) Saved in CSV format when setting data is reached L (F7) Obtaining judgment results Save Data 3 / 100 [Count]	
Index + TimeStamp VortAvame DS8125R_300165 DS8125R_300165_MeasureMode DS8055R_300113 DS8055R_300113_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300113_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300113_MeasureMode DS8055R_300113_MeasureMode DS8055R_300116_MeasureMode DS8055R_300116_MeasureMode DS8055R_300113_MeasureMode DS8055R_30013_Me	Data area
3 6/17/2024 10:17:26.006 AM -0.0002 Real -0.0709 Real 0.0001 Real 2 6/17/2024 10:17:25.958 AM -0.0002 Real -0.0709 Real 0.0001 Real -	
Page 1 of 1 H H H	
Page 1 of 1 H ≪ 1 H H Setting	Application function
Alarm:	settings
Measuring unit area Measuring unit measurement value display, individual settings (See se	ection 6-1.)
Line chart area Realtime graphical display of current values from selected measure section 6-2.)	ring units (See

Refer to section 6-4 for information on using these areas for checking application information, measurement value display operations, and application function settings.

Acquisition and storage of data from all measuring units (See section 6-3.)

5-2. Changing the layout of the areas

The layout and size of the measuring unit area and data area can be changed. The line chart area changes automatically to match changes made to the measuring unit area or data area.

Clear drawing Clear drawing <thclear drawing<="" th="" thcewing<=""> <th< th=""><th>rk Name:</th><th></th><th>Axis Counts 3</th><th>Preset(F2)</th><th>Peak</th><th>hold(F3)</th><th>Latch(F4)</th><th>Start(F5)</th><th>Reset(F6)</th><th><i>(</i>/)</th><th>⊢→</th><th></th></th<></thclear>	rk Name:		Axis Counts 3	Preset(F2)	Peak	hold(F3)	Latch(F4)	Start(F5)	Reset(F6)	<i>(</i> /)	⊢→	
Class dating Class dating <td< td=""><td>ne Chart</td><td></td><td></td><td></td><td>×</td><td>Data</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	ne Chart				×	Data						
0000 Sive Dots 10 / 100 [Count] 10 der TimeStamp Workhame DS8125R_300165_DS8125R_300165_Mean 0000 0 di17/2024 10:18:49.526 AM -0.0002 Real 0 di17/2024 10:18:49.311 AM -0.0002 Real 9 di17/2024 10:18:49.313 AM -0.0002 Real 7 di17/2024 10:18:49.314 AM -0.0002 Real 3 di17/2024 10:18:49.37 M AM -0.0002 Real 3 di17/2024 10:18:49.37 M AM -0.0002 Real 3 di17/2024 10:18:49.37 M AM -0.0002 Real 3 di17/2024 10:18:49.37.390 AM -0.0002 Real 3 di17/2024 10:18:49.37.390 AM -0.0002 Real 3 di17/2024 10:17:26.006 AM -0.0002 Real 9 di1 III di117/2024 10:17/2024 10:17/2020 III di11/2024	Clear drawing 🛐 🛶	•••• X-Axis Span:		- 10 [s] Y-Axis	Rane	Ŏ (F8)	Interval 0	0:00:01.0	(0.1 s - 24 h)	Saved in	n CSV format when se	itting
0000 Sive Dots 10 / 100 [Count] 10 der TimeStamp Workhame DS8125R_300165_DS8125R_300165_Mean 0000 0 di17/2024 10:18:49.526 AM -0.0002 Real 0 di17/2024 10:18:49.311 AM -0.0002 Real 9 di17/2024 10:18:49.313 AM -0.0002 Real 7 di17/2024 10:18:49.314 AM -0.0002 Real 3 di17/2024 10:18:49.37 M AM -0.0002 Real 3 di17/2024 10:18:49.37 M AM -0.0002 Real 3 di17/2024 10:18:49.37 M AM -0.0002 Real 3 di17/2024 10:18:49.37.390 AM -0.0002 Real 3 di17/2024 10:18:49.37.390 AM -0.0002 Real 3 di17/2024 10:17:26.006 AM -0.0002 Real 9 di1 III di117/2024 10:17/2024 10:17/2020 III di11/2024			_		I	.৬. (E7)				Obtain	ina iudament results	s
0000 Index • TimeStamp WorkName DS3125R_300165 DS8125R_300165 DS8125R_300165 Meas 0000 0 6/17/2024 10:18:49.526 -0.0002 Real 9 6/17/2024 10:18:49.536 -0.0002 Real 9 6/17/2024 10:18:49.534 -0.0002 Real 9 6/17/2024 10:18:49.534 -0.0002 Real 7 6/17/2024 10:18:49.054 -0.0002 Real 7 6/17/2024 10:18:49.054 -0.0002 Real 7 6/17/2024 10:18:4.05 AM -0.0002 Real 6 6/17/2024 10:18:4.05 AM -0.0002 Real 3 6/17/2024 10:18:4.05 AM -0.0002 Real 3 6/17/2024 10:18:4.55 HAM -0.0002 Real 3 6/17/2024 10:18:4.55 HAM -0.0002 Real 3 6/17/2024 10:18:4.55 HAM -0.0002 Real 3 6/17/2024 10:17:26.006 AM	00000					_						
0000 00002 Real 0 00002 Real 0000 6/17/2024 10:18-9.324 AM -0.0002 Real - 0 6/17/2024 10:18-9.31 AM -0.0002 Real - 0 6/17/2024 10:18-9.31 AM -0.0002 Real - 0 6/17/2024 10:18-9.31 AM -0.0002 Real - 0 6/17/2024 10:18-9.044 AM -0.0002 Real - 0 6/17/2024 10:18-9.044 AM -0.0002 Real - 0 6/17/2024 10:18-9.044 AM -0.0002 Real - 0 6/17/2024 10:18-7.370 AM -0.0002 Real - 0 6/17/2024 10:18-7.370 AM -0.0002 Real - 3 6/17/2024 10:18-7.390 AM -0.0002 Real - 3 6/17/2024 10:17-26.006 AM -0.0002 Real - 0 000000 000000 000000 000000 - - 0 6/17/2024 10:17-26.006 AM -0.0002 Real <td></td> <td></td> <td></td> <td></td> <td></td> <td>Save Da</td> <td>sta 10/</td> <td>100 [Count</td> <td>]</td> <td></td> <td></td> <td></td>						Save Da	sta 10/	100 [Count]			
0000 00002 Real 0 00002 Real 0000 6/17/2024 10:18-9.324 AM -0.0002 Real - 0 6/17/2024 10:18-9.31 AM -0.0002 Real - 0 6/17/2024 10:18-9.31 AM -0.0002 Real - 0 6/17/2024 10:18-9.31 AM -0.0002 Real - 0 6/17/2024 10:18-9.044 AM -0.0002 Real - 0 6/17/2024 10:18-9.044 AM -0.0002 Real - 0 6/17/2024 10:18-9.044 AM -0.0002 Real - 0 6/17/2024 10:18-7.370 AM -0.0002 Real - 0 6/17/2024 10:18-7.370 AM -0.0002 Real - 3 6/17/2024 10:18-7.390 AM -0.0002 Real - 3 6/17/2024 10:17-26.006 AM -0.0002 Real - 0 000000 000000 000000 000000 - - 0 6/17/2024 10:17-26.006 AM -0.0002 Real <td></td> <td></td> <td></td> <td></td> <td></td> <td>Index #</td> <td>TimoStamp</td> <td></td> <td>WorkNamo DC91</td> <td>CR 200165</td> <td>D691268 200165 M</td> <td>0.00</td>						Index #	TimoStamp		WorkNamo DC91	CR 200165	D691268 200165 M	0.00
0000 0 00000 0 00000 0 <t< td=""><td>0000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>easi</td></t<>	0000											easi
0000 7 6/17/2024 10:18:48.405 AM -0.0002 Real 6 6/17/2024 10:18:47.970 AM -0.0002 Real 6 6/17/2024 10:18:47.970 AM -0.0002 Real 1 6/17/2024 10:18:47.970 AM -0.0002 Real 3 6/17/2024 10:18:46.554 AM -0.0002 Real 4 6/17/2024 10:18:46.554 AM -0.0002 Real 3 6/17/2024 10:18:46.554 AM -0.0002 Real 7 6/17/2024 10:18:46.544 AM -0.0002 Real 3 6/17/2024 10:18:46.544 AM -0.0002 Real 7 Fage 1 of 1 # 4/1 1 # 4/1 1												
0000 00000 000000 000000 000000 000000 0000						8	6/17/2024 10:1	18:49.044 AM	-0.00	02	Real	
0000 65 61770224 101:81-3390 AM -0.0002 Real 4 6177024 101:81-63 44A -0.0002 Real 3 6/177024 101:81-63 44A -0.0002 Real 9 9 1117224 101:17:26.006 AM -0.0002 Real 9 9 1117224 101:17:26.006 AM -0.0002 Real	0000			_		7	6/17/2024 10:1	L8:48.405 AM	-0.00	02	Real	
0000 4 6/17/2024 10:18:46.544 AM -0.0002 Real 3 6/17/2024 10:17:26.006 AM -0.0002 Real 3 6/17/2024 10:17:26.006 AM -0.0002 Real 4 9age 1 of 1 # (1) # (1) #						6	6/17/2024 10:1	L8:47.970 AM	-0.00	02	Real	
0000 00000 000000 000000 000000 000000 0000					+	5	6/17/2024 10:1	L8:47.390 AM	-0.00	02	Real	
0000 00.0000 00.0000 00.0000 00.0000 00.0000 00.0000 00.0000 Page 1 of 1 W « 1 W	00000					4	6/17/2024 10:1	L8:46.544 AM	-0.00	02	Real	
0000 000000 00000 00000 00000 00000 00000 0000						3	6/17/2024 10:1	17:26.006 AM	-0.00	02	Real	
0000 000000 00000 00000 00000 00000 00000 0000												
	0000											
asuring units	00:00:00 00:00:00	00:00:00 00:00:00 00:	00:00 00:00:00	00:00:00 0	0:00:00	Page 1 of	1				144 44 1	
asuring units	neuvine unite											_
	asuring units											
	÷	······		÷								

Data area

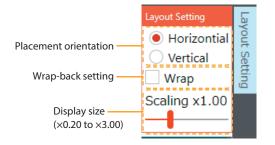
Click " \times (Close)" at the upper right corner of a display area to minimize the area to the bottom of the MeasureViewer window above "Setting."

To redisplay an area, click its name.

Data	Line Chart	Measuring units	
\odot	Setting		
Alarm	1:		

5-3. Changing the layout of the measuring unit displays

The layout and size of the measuring unit displays within the measuring unit area can be changed. Move the cursor to the Layout Option box at the right of the measuring unit area to display the layout setting items. The layout can be changed freely to match the window being used.

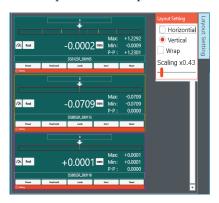


< Layout examples >

Horizontal placement, wrap-back off



Vertical placement, wrap-back off



Horizontal placement, wrap-back on



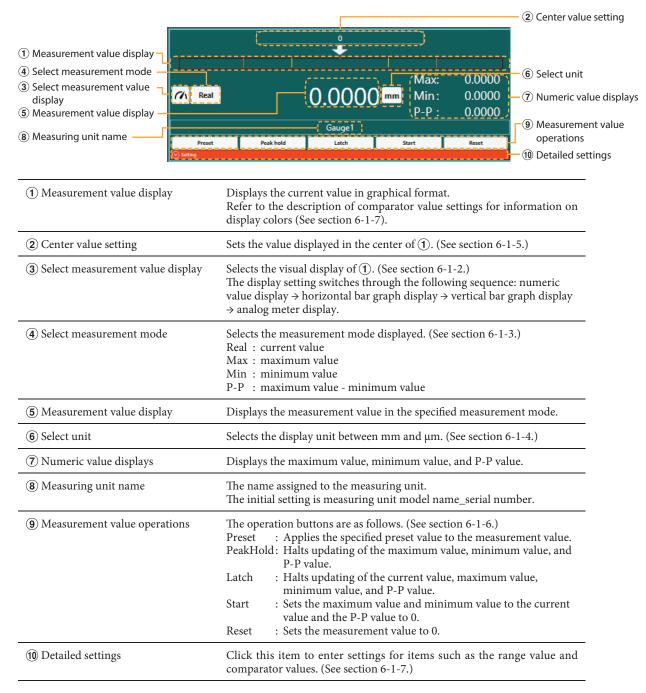
6. Functions and operations

6-1. Measuring unit area

The measurement values of the recognized measuring units are displayed in the measuring unit area.

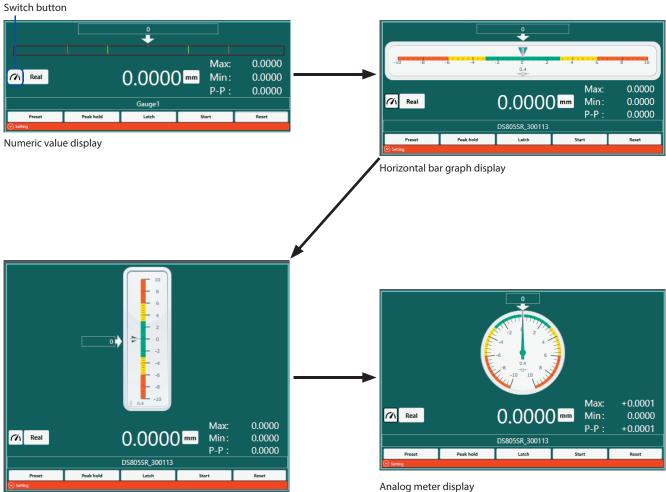
6-1-1. Measurement value display

The measurement value display switching options and setting functions for each measuring unit are as follows.



6-1-2. Selecting the measurement value display

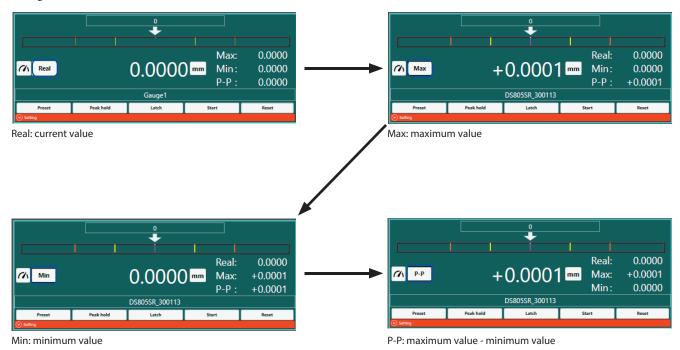
Press the select button to select among the measurement value display modes.



Vertical bar graph display

6-1-3. Selecting the measurement mode

The measurement mode used for the display (current value, maximum value, minimum value, or P-P value) can be changed.



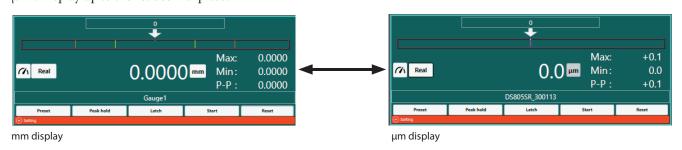
6-1-4. Selecting the unit

The display unit for measurement values can be switched between mm and μ m.

The number of digits displayed after the decimal point changes automatically when the unit is changed.

The setting for the number of digits displayed after the decimal point can be changed (see section 6-1-7), but the initial settings are as follows.

mm: Display up to the 4th decimal place. μm : Display up to the 1st decimal place.



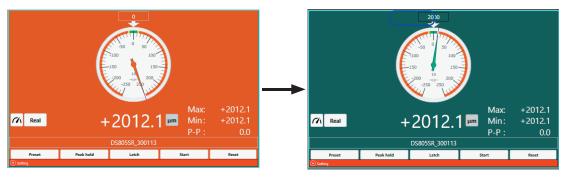
6-1-5. Center value setting

The center value of the measurement graphic display can be specified. The threshold used for pass/fail determination is a relative value from the center value. For the relationship between the center value and the threshold, refer to section 6-1-7.

< Example >

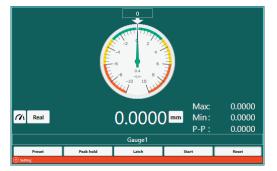
Measuring a part with a tolerance specification of 2,000 $\mu m \pm 15 \ \mu m.$

Display unit setting : µm Center value setting : 2000 Range setting : 15 (See section 6-1-7.)



Note: Refer to section 6-4-2 for information on the background color.

6-1-6. Measurement value operations



The operation buttons can be used to update or stop updating of the measurement values (current value, maximum value, minimum value, P-P value).

	Preset	PeakHold	Latch	Start	Reset
Current value	Apply preset value*	Update	Stop	Update	Set to 0
Maximum value	Apply preset value*	Stop	Stop	Set to current value	Set to 0
Minimum value	Apply preset value*	Stop	Stop	Set to current value	Set to 0
P-P value	Set to 0	Stop	Stop	Set to 0	Set to 0

* Refer to section 6-1-7 regarding setting the preset value.

Note

PeakHold on (button color blue) : Preset and Reset are disabled.

Latch on (button color blue) : Preset, Start, and Reset are disabled.

To enable the buttons, turn "Release latch and hold" on. (See section 6-4-2.)

6-1-7. Detailed settings

(2) Pr	eset ③ Comparison values
Save Data Save Data	Ct
(1) Range	Specifies the range from the center value for the visual display of the measurement value. Settings from 0.05 μ m to 250 mm can be entered to match the display unit. The range can be set to match the display unit. mm / μ m: 0.05, 0.1, 0.25, 0.5, 1, 2.5, 5, 10, 15, 25, 30, 50, 100, 250
(2) Preset	Sets the preset value. Entry range: ±99999.99999
 (3) Comparison values (4) Save Data 	Sets the judgment threshold for the measurement value.Entry range: ± 99999.99999 To specify four steps: Enter values such that C1 < C2 < C3 < C4.
	Min : minimum value P-P : P-P value When not selected, the currently displayed value is saved.
(5) Line chart	Specifies the color of the graph displayed in the line chart area. To disable display in the line chart area, click the icon to turn it off. On: blue icon Off: white icon
(6) Direction	Switches the count direction of the measurement value display. When the spindle of the measuring unit is depressed, the count is incremented when [+] is selected and decremented when [-] is selected.
(7) Decimal point	Specifies the number of display digits after the decimal point.The initial setting and the setting range differ according to the display unit.UnitInitial setting Mm Setting range mm 4 0 to 5 μm 1Ot to 5This setting is applied to the number of digits displayed after the decimal point of all measurement values.
(8) Measuring unit information	Displays detailed information about the measuring unit. The model name, serial number, firmware version, and gauge name are displayed.

Click 🖸 to open the panel as shown, allowing you to enter detailed settings.

[Relationship of threshold and center value]

When the comparison values C1 to C4 are set as shown below, the actual judgment values are as shown in the following table based on the center value setting. The comparator's judgment values use the center value as the standard.

	C1	C2	C3	C4
Setting value	-6	-3	3	6
Center value	C1 judgment value	C2 judgment value	C3 judgment value	C4 judgment value
2	-4	-1	5	8
0	-6	-3	3	6
-2	-8	-5	1	4

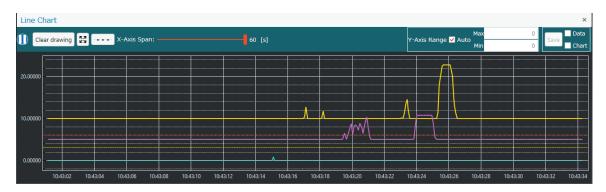
6-2. Line chart area

The current values are displayed as line graphs in real time, with the values updated at the specified interval.

1) Start/stop 3 ② Clear drawing	Display all	(5) Rate		(6) Y-axis range(7) Save line			
Clear drawing	X-Axis Span:		10 [s]	(-Axis Range 📕 Auto	Max Min	10 -10	
	 Measuring point 	display					
ine Chart						×	
Clear drawing	X-Axis Span:	10 [s]		Y-Axis Ra	nge 🗖 Auto Min	10 Save Chart	
0.00000							
5.00000							
0.00000 00:00:00	00:00:00 00:00:00 00:00:00	0 00:00:00 00:00:00	00:00:00 00:00:00	00:00:00 00:00:00	00:00:00 00:00	100 00:00:00 00:00:00	
		(8) L	ine chart				
1) Start/stop	Starts/stops drawin	ng of the line chart.					
	▶ : Start drawing.□ : Stop drawing.						
2) Clear drawing	Clears the currently	y displayed line cha	ırt.				
3) Display all	Displays the entire	line chart.					
4 Measuring point display	Displays the measuring point in the line chart.						
5) Rate	Specifies the interve Setting range: 1 to (line chart.				
6 Y-axis range	Sets the Y-axis disp Check in "Auto" bo The display rang displayed line cl	ox: ge is adjusted to ma hart.	itch the maxim	um and minimu	m values of the	e entire	

No check in "Auto" box: The display range is adjusted to match the entered maximum and minimum values.

⑦ Save line chart data	Saves the image or numeric value data of the displayed line chart. Chart : Saves an image of the chart to a file in png format. Data : Saves the numeric value data of the chart to a file in CSV format.					
	The save destination is the same as that for CSV format data files. The data file is saved in an automatically generated "Chart" folder. (See section 6-4-2.)					
(8) Line chart	Displays a chart of the current values of the selected measuring unit.					
	Selection of measuring unit to be displayed Click the Line Chart button in the detailed settings of the measuring unit to turn it On (blue).					
	Threshold display The specified thresholds (see section 6-1-7) are displayed in the line chart as dashed lines. Click the measurement value display (see section 6-1-1) to select the measuring unit. The background of the selected measurement value display is displayed in a lighter color. Dashed yellow line : Comparator values C2 and C3 Dashed red line : Comparator values C1 and C4					
	Reference					
	Y-axis scale: mm display up to the 5th decimal place					



Example: 3 axes connected; Rate: 30 seconds; Auto Range: off

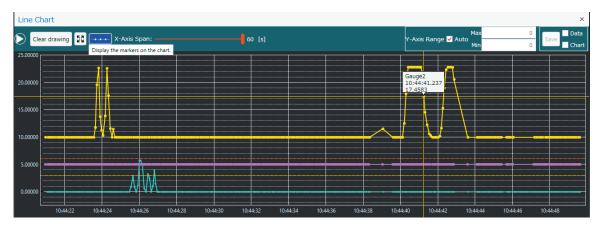
6-2-1. Line chart zoom-in/out and tracker display

Operation	Effect		
Left click + drag	Moves the display range		
Right click + drag	Zooms the dragged range		
Wheel operation	Zoom-in/out		
Right double click	Display all		

Operations can be performed on the currently displayed chart while line chart drawing is stopped.

In addition, when the data on the chart is mouseovered, the following tracker is displayed.

- Measuring unit name
- Acquisition time
- Current value



Example of display during mouseover

6-3. Data area

The method of acquiring measurement values and exporting acquiring measurement values in CSV format.

2 Interval setting	(3) Acquire		Obtaining judgment (5 Auto	o data save	8 Save 7 Clear
Ö (F8) Interval 00:00:01.0 ▲ (F7)	(0.1 s - 24 h)		Saved in CSV format	when setting data is reached	
Save Data 10 / ¹⁰ [Cour		Gauge1 MeasureMode	Caugal Comparator		Clear
10 6/17/2024 10:56:50.477 AM			2		
9 6/17/2024 10:56:49.471 AM			2		
8 6/17/2024 10:56:48.467 AM		Real	2		
7 6/17/2024 10:56:47.454 AM	0.0000	Real	2		
6 6/17/2024 10:56:46.440 AM	0.0000	Real	2		
5 6/17/2024 10:56:45.429 AM	0.0000	Real	2		
4 6/17/2024 10:56:44.422 AM	0.0000	Real	2		
3 6/17/2024 10:56:43.417 AM	0.0000	Real	2		
2 6/17/2024 10:56:42.411 AM	0.0000	Real	2		
1 6/17/2024 10:56:41.384 AM	0.0000	Real	2		
			(9) Saved data		
Page 1 of 1			Saved data		144 44 1 I>> I

① Continuous data acquisition (Interval)	Starts/stops acquisition of data at fixed intervals. The same operation can be accomplished by pressing the F8 key.
(2) Interval setting	Specifies the time interval for acquisition of data at fixed intervals. Setting range: 0.1 seconds to 24 hours
(3) Acquire data (Single)	Click this button to acquire data once. The same operation can be accomplished by pressing the Enter key or the F7 key. Note
	This function is not available during acquisition of data at fixed intervals.
(4) Save data count setting	Specifies the acquired data count to save. When "Auto data save" ((5)) is turned on, the acquired data is saved automatically when the save data count specified here is reached. Acquisition of new data stops when the specified data count is reached. Setting range: 1 to 50,000 The bar displays [currently acquired data count] / [data acquisition upper limit].
(5) Auto data save	 When this is turned on, the acquired data is saved automatically when the specified save data count (④) is reached. Click the icon to toggle the function on and off. ON : OFF : Refer to section 6-4-2 for how to specify the save destination. The file is saved with the file name [mgs_YYYYMMDDhhmmss.csv]. Example: A file saved at 13:45:06 on January 2, 2024 would have the name mgs_20240102134506.csv.
6 Acquire judgment results	When this is turned on, the judgment result is output in the display or the CSV data.
(7) Clear	Clears the acquired data. To clear only selected data: Click to select a line of data, then click the Clear button. To clear all data : With no data selected, click the Clear button. Note This function is not available during continuous data acquisition.
(8) Save As	Saves the acquired data to an arbitrarily named file in CSV format.
(9) Saved data	The acquired data is displayed here. Up to 100 sets of data values can be displayed per page. Pages are added when the data count reaches and exceeds 101. Note About the header information Changes to the measuring unit name or other items in the measurement value display are not applied to the header information unless all the data is cleared (⑦ Clear).

Note

- If the display unit (mm / μ m) is switched during data acquisition, subsequent data is acquired in the newly selected unit.

• The following operations are not available during continuous data acquisition. Clear data / Restore data

Details of acquired data

When	saved	data	is not	selected
	34164	~~~~	13 1100	JUICCCCM

Index	Timestamp	amp Work 1st measuring name unit		1st measuring unit mode	1st measuring unit judgment result	2nd measuring unit	•••
	Displayed to the millisecond		Acquired value	Real Max Min P-P	0: measurement value < C1 1: C1 < measurement value < C2 2: C2 ≤ measurement value ≤ C3 3: C3 < measurement value ≤ C4 4: measurement value < C4		

When Real and P-P are selected

Index Timestamp Work 1st measuring unit_ name Real	1st measuring unit_ Real judgment result	1st measuring unit_ P-P	1st measuring unit_ P-P judgment result
---	--	----------------------------	--

Assign a name and click the Save As button ($(\mathbf{8})$) to output the data in CSV format. The data is output according to the specified date format (see section 6-4-2).

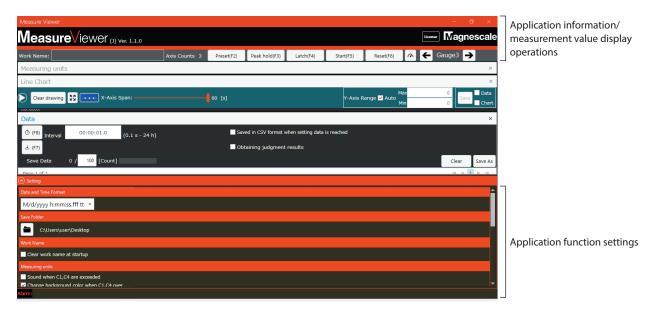
	mgs_202	240617105238_En.csv	× +			-		×
File	Edit	View						ŝ
 1,6/ 2,6/ 3,6/ 4,6/ 5,6/ 6,6/ 7,6/ 8,6/ 9,6/	sureMod (17/2024 (17/2024 (17/2024 (17/2024 (17/2024 (17/2024 (17/2024 (17/2024 (17/2024) (17/2024)	<pre>10:51:42.914 AM,, 10:51:43.938 AM,, 10:51:44.969 AM,, 10:51:45.984 AM,, 10:51:47.005 AM,, 10:51:48.019 AM,, 10:51:48.019 AM,,</pre>	0.9640,Real,(0.9640,Real,(0.9640,Real,(0.9640,Real,(0.9640,Real,(0.9640,Real,(0.9640,Real,(0.9640,Real,(0.9640,Real,(0.9640,Real,(0.0000,Real,4.9994 0.0000,Real,4.9994 0.0000,Real,4.9994 0.0000,Real,4.9994 0.0000,Real,4.9994 0.0000,Real,4.9994 0.0000,Real,4.9994 0.0000,Real,4.9994 0.0000,Real,4.9994	,Real ,Real ,Real ,Real ,Real ,Real ,Real ,Real ,Real	de,Gaug	e3,Gai	1ge3
Ln 1,	Col 1	754 characters		100% Window	vs (CRLF)	UTF-8		

Data displayed as text file

	Α	В	С	D	E	F	G	н	I
1	Index	TimeStamp	WorkName	Gauge2	Gauge2_MeasureMode	Gauge1	Gauge1_MeasureMode	Gauge3	Gauge3_MeasureMode
2	1	6/17/2024 10:51:42.914 AM		0.964	Real	0	Real	4.9994	Real
3	2	2 6/17/2024 10:51:43.938 AM		0.964	Real	0	Real	4.9994	Real
4	3	6/17/2024 10:51:44.969 AM		0.964	Real	0	Real	4.9994	Real
5	4	6/17/2024 10:51:45.984 AM		0.964	Real	0	Real	4.9994	Real
6	5	6/17/2024 10:51:47.005 AM		0.964	Real	0	Real	4.9994	Real
7	6	6 6/17/2024 10:51:48.019 AM		0.964	Real	0	Real	4.9994	Real
8	7	6/17/2024 10:51:49.021 AM		0.964	Real	0	Real	4.9994	Real
9	8	6/17/2024 10:51:50.027 AM		0.964	Real	0	Real	4.9994	Real
10	g	6/17/2024 10:51:51.031 AM		0.964	Real	0	Real	4.9994	Real
11	10	6/17/2024 10:51:53.501 AM		0.964	Real	0	Real	4.9994	Real

Data displayed in Microsoft Excel

6-4. Common functions



6-4-1. Application information and measurement value display operations

Operations can be performed on the measurement value displays of all recognized measuring units.

1 Softw	vare version				(5) License
Measure Viewer Measure Viewer (1) Sie	<u>r. 1.1.0</u>				License Magnescale
Work Name:	Axis Counts 2	Preset(F2) Peak hold(F3) L	atch(F4) Start(F5)	Reset(F6)	← →) / ← Gauge3 →
(2) Work Name		(3) All-axis ope	erations (Axis Cou	ints)	 Rearrange measurement value displays
(1) Software version	Displays the versior	n number of the applic	cation.		
(2) Work Name		s cell causes the text to fax. 32 characters that			acquired data and CSV output. nd symbols
(3) All-axis operations (Axis Counts)	switching operation	applicaton of Preset, as to all connected me been assigned to each	asuring units.		and measurement value display
	Operation	Кеу			
	Preset	F2			
	PeakHold	F3			
	Latch	F4			
	Start	F5	_		
	Reset	F6/Delete			
 Rearrange measurement value displays 	Click inside the frameasuring unit app selected display to t (The background of Gauge1	ears between the rear	nt value display t range buttons. C ment value displ	to be moved to Click the right o lay is displayed	-
(5) License		hen the protection do	5		
O Litelise	SERIAL NUMBER : 10 LICENSE No.1 : MGS	007			

6-4-2. Application functions

1 Date and Time Format M/d/yyyy h:mm:ss.fff tt 🔹 🌖 2 Save Folder (3) Clear work name at startup (4) Sound setting C1,C4 are exceeded rough color when C1,C4 over (5) Background color setting 6 Release latch and hold Automatically reassign indexes (8) CSV format save setting(9) Auto save of AutoRecover information 1 Display messages **V** (Initialize the display screen
 Initialize the software een the software

Click i at the bottom of the window to enter application settings.

ON: 🕖, OFF: 🗌 Check the box 🗌 to turn on the setting.

① Date and Time Format	Selects the date and time format used when outputting acquired data and CSV format data.
(2) Save Folder	Specifies the destination folder for CSV format data files. The default is the desktop.
(3) Clear work name at startup	On : Clears the previously set work name when the application is started. Off : Starts up with the previously set work name when the application is started.
(4) Sound setting	On : Emits a sound when the current value of the measuring unit has exceeded C1 or C4. The sound is emitted each time C1 or C4 is exceeded.
(5) Background color setting	 On : The background color of the measurement value display for the target measuring unit changes when the current value of the measuring unit has exceeded C1 or C4. Specify an arbitrary background color. When "Keep changed background color" is turned on, the background color remains in the changed state until Start or Reset is performed.
(6) Release latch and hold	On : Latch and hold are released when the Start, Reset, or Preset button is clicked while latch and/or hold is enabled.Off : The Start, Reset, and Preset buttons are disabled while latch and/or hold is enabled.
 Automatically reassign indexes 	On : Automatically reassigns the indexes of the acquired data display when the data in the data area is cleared.
(8) CSV format save setting	 On : Generates a "_Backup" folder in the save folder and exports the data in CSV format each time data is acquired. Saved file name: "bck_YYYYMMDDhmmss.csv" Example: A file saved at 13:45:06 on January 2, 2024 would have the name If the file cannot be written, the file is recreated automatically.
(9) Auto save of AutoRecover information	The AutoRecover information is automatically saved when the application is shut down. Check the box next to "Save AutoRecover information" to overwrite the saved data at five-minute intervals. Click the Restoration button to restore the last set of acquired data. Note If the acquired data contains many items, restoring it may take some time.
(1) Display messages	On : Displays warning messages. Off : Executes the processing without displaying warning messages. However, error messages and messages related to application shutdown are displayed.

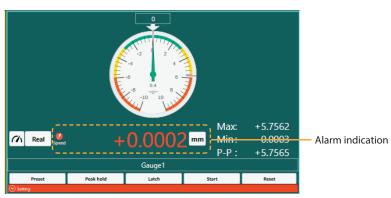
(1) Initialize the display screen	Initializes the window layout. When initialization is executed, the application automatically shuts down.
(12) Initialize the software	Initializes the application. When initialization is executed, the application automatically shuts down.

7. Troubleshooting

7-1. An alarm occurred

When a measuring unit generates an alarm, an alarm indication appears on the measurement value display of the measuring unit that generated the alarm and an alarm message is displayed.

Alarm indication on measurement value display



Alarm indication in common function settings area (see section 6-4-2).

Setting Jarm: DS805SR_300113 is Speed Alarm					
Cause	Action				
A measuring unit generated an alarm.	The current value of the measuring unit that generated the alarm may not be correct. Disconnect the measuring unit from the PC and then reconnect it. If reconnecting the measuring unit does not correct the problem, contact a Magnescale sales or service representative.				

7-2. The installation failed

Cause	Action
(Various causes)	Possible fixes include confirming that you have administrator privileges, checking the available hard disk space, and restarting the PC. If none of these measures correct the problem, contact a Magnescale sales or service representative.

7-3. The application won't start

Cause	Action
Application is still starting up.	It is possible that the application is taking some time to start. Wait a little while.
Application did not shut down normally.	It is possible that the application did not shut down normally the last time it was run. Restart the PC.

7-4. A measuring unit is not displayed, or the numeric values are not updated

Cause	Action			
The measuring unit is not connected.	Check the connection between the PC and the measuring unit. (If they are properly connected, the LED on the interpolator of the measuring unit will be flashing blue or steadily lit blue.)			
The measuring unit was not properly recognized by the PC.	If the LED of the measuring unit connected to the PC is not lit or is flashing or steadily lit red, the power supply to the measuring unit may be insufficient. Check the supply of power via the USB port and the number of connections.			
17 or more measuring units are connected.	The application supports connection of up to 16 measuring units. Ensure that no more than 16 measuring units are connected.			
The settings made by the application are not applied.	If measuring unit settings by the application fail, the measuring unit may not be displayed. Disconnect the measuring unit from the PC, and then reconnect it. If reconnecting the measuring unit does not correct the problem, disconnect the measuring unit from the PC, initialize (see section 6-4-2) and restart the application, and then reconnect the measuring unit.			
A COM port number that does not enable communication is recognized.	 Communication may not be possible depending on the COM port number automatically allocated to the measuring unit. In that case, change the COM port number of the target measuring unit, and then reconnect the measuring unit. <changing com="" number="" port="" the=""></changing> 1. Right click the Start button of the PC and open the "Device Manager." 2. Expand Ports (COM/LPT). 			
	Cecice Manager - C File Action Year Help Image: Second Sec			

3. When the target measuring unit is disconnected from the PC, the number of devices under Ports (COM/LPT) on the screen changes, so check the COM number of the measuring unit.

4. Open the COM properties of the target measuring unit, click the Port Settings tab, and click the Advanced button.

USB Serial Device (COM6) Properties X	USB Serial Device (COM6) Properties X
General Port Settings Driver Details Events	General Port Settings Driver Details Events
USB Serial Device (DDM6) Device type: Ports (DDM & LPT) Manufacturer: Microsoft Location: Port#0004 Hub,#0003 Device status [This device is working property.	Bits per second. \$600 Data bits. \$ Parity. None Stop bits. 1 Flow control. None
UK Cancel	Advanced. Restore Defaults

5. Change "COM Port Number" at the bottom of the opened window to a different value, and click "OK."

Advanced Settings for COM6	o correct co	nnection probl				OK Cancel
Select higher settings Receive Buffer: Low (1) Transmit Buffer: Low (1)		,	ļ	High (14) High (16)	(14) (16)	De faults
COM Port Number: COM6 6. Restart the app	plicatio	on.				

7-5. Data cannot be acquired

Cause	Action
Data cannot be written in a CSV file.	 Check that the "Setting" → "Data" → "Append CSV data" box has a check. If the box has a check, data cannot be acquired unless the acquired data is successfully written in a CSV file. (See section 6-4-2.) Check "Save Folder" to see whether the save destination folder can be accessed. (See section 6-4-2.) Write will fail if the CSV file being written is open in another application. If the file is open in another application, quit that application before acquiring the data.

7-6. The application suddenly shuts down

Cause	Action
The protection dongle is not connected.	The application performs a forced shutdown after five minutes if the protection dongle is not connected to the PC. Make sure the protection dongle is connected when using the application.
The protection dongle is not recognized.	The protection dongle may not be properly recognized. Restart the PC and restart the application.
Exception handling occurred.	The application may perform a forced shutdown if an unexpected operation occurs. Restart the PC and check the operation of the application.

このマニュアルに記載されている事柄の著作権は当社にあ り、説明内容は機器購入者の使用を目的としています。 したがって、当社の許可なしに無断で複写したり、説明内 容(操作、保守など)と異なる目的で本マニュアルを使用 することを禁止します。

本手册所记载的内容的版权归属Magnescale Co., Ltd., 仅供购买本手册中所记载设备的购买者使用。

除操作或维护本手册中所记载设备的用途以外,未 经 Magnescale Co., Ltd. 的明确书面许可,严禁复制或使 用本手册的任何内容。

The material contained in this manual consists of information that is the property of Magnescale Co., Ltd. and is intended solely for use by the purchasers of the equipment described in this manual.

Magnescale Co., Ltd. expressly prohibits the duplication of any portion of this manual or the use thereof for any purpose other than the operation or maintenance of the equipment described in this manual without the express written permission of Magnescale Co., Ltd.

Le matériel contenu dans ce manuel consiste en informations qui sont la propriété de Magnescale Co., Ltd. et sont destinées exclusivement à l'usage des acquéreurs de l'équipement décrit dans ce manuel.

Magnescale Co., Ltd. interdit formellement la copie de quelque partie que ce soit de ce manuel ou son emploi pour tout autre but que des opérations ou entretiens de l'équipement à moins d'une permission écrite de Magnescale Co., Ltd.

Die in dieser Anleitung enthaltenen Informationen sind Eigentum von Magnescale Co., Ltd. und sind ausschließlich für den Gebrauch durch den Käufer der in dieser Anleitung beschriebenen Ausrüstung bestimmt. Magnescale Co., Ltd. untersagt ausdrücklich die Vervielfältigung jeglicher Teile dieser Anleitung oder den Gebrauch derselben für irgendeinen anderen Zweck als die Bedienung oder Wartung der in dieser Anleitung beschriebenen Ausrüstung ohne ausdrückliche schriftliche Erlaubnis von Magnescale Co., Ltd.

日本からの輸出時における注意

本製品(および技術)は輸出令別表第1の16の項(外為令別表16の項)に該当します。キャッチオー ル規制による経済産業省の許可要否につきましては、輸出者様にてご確認ください。

For foreign customers

Note: This product (or technology) may be restricted by the government in your country. Please make sure that end-use, end user and country of destination of this product do not violate your local government regulation.

Magnescale Co., Ltd.

45 Suzukawa, Isehara-shi, Kanagawa 259-1146, Japan