



# Portable Gas Detector 9000 Series Configuration Program MT-9000 Series (EX)

**Operating Manual** 



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# **About This Document**

# **1-1 Introduction**

The operating procedures and precautions described in this operating manual apply only for use in accordance with the stipulated purposes. Riken Keiki rejects all liability in cases involving use of the program in ways not described in this operating manual.

This operating manual omits descriptions of basic operations such as command selection and dialog box settings for Microsoft Windows 10, Microsoft Windows 11. If you are using Windows for the first time, read the Windows manual and familiarize yourself with basic Windows operations before proceeding.

## **1-2 Program purpose and features**

This software program is used to check and edit the internal settings of 9000 Series Portable Gas Detectors (GX-9000/GX-9000H).

- Unauthorized reprinting or reproduction of the contents of this document in part or in whole is strictly prohibited, unless otherwise stipulated by law.
- The contents of this document are subject to change without notice to allow product improvements.
- The user must accept Software License Agreement before using this product (refer to '2-4-2 Accept license agreement'). Installation implies acceptance of the terms of the licence agreement.
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Microsoft Windows 10, Microsoft Windows 11 is a registered trademark of Microsoft Corporation in the US and other countries.

# 1-3 DANGER, WARNING, and NOTE

This operating manual uses the following categories to indicate potential damage/hazards if the user disregards the information provided and uses the product incorrectly:

	This indicates situations in which improper handling may result in fatal or serious injury or significant property damage.
WARNING	This indicates situations in which improper handling may result in serious injury or significant property damage.
	This indicates situations in which improper handling may result in minor injury or minor property damage.

Additionally, usage recommendations are indicated as follows:

<b>NOTE</b> This indicates items that will be helpful to know when using the product.	
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# **Installing and Uninstalling**

## 2-1 Operating environment and precautions

This program is compatible with the Microsoft Windows 10, Microsoft Windows 11 operating system. The program is not compatible with other operating systems.

This program requires up to approximately 5 MB of free hard disk space to install. It may require additional space, depending on the number of data items. Make sure sufficient disk space is available.

# 2-2 PC settings

The program uses a virtual PC COM port with a USB to UART bridge controller by means of a dedicated IrDACOM adapter.

The USB to UART bridge controller used is the Silicon Laboratories CP2102N.

Serial port settings: Baud rate: 921,600 bps, Data: 8 bits, Parity: Even, Stop bit: 1

Obtaining the driver:

Download the P210x USB Virtual COM Port (VCP) from the Silicon Laboratories website (see below) and install the driver.

 Japanese site:
 https://jp.silabs.com/developers/usb-to-uart-bridge-vcp-drivers

 English site:
 https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers

 drivers
 drivers

# 2-3 Installing the software

Install this programme on your personal computer. Proceed as follows.

- 1. Download the zip file (9000Series configuration Program (MT-9000Series (EX))) from the product information page on the RIKEN KEIKI CORPORATION website.
- 2. Double-click the "setup.exe" file in the zip file.

# 2-4 Installation procedure

### 2-4-1 Launch setup

The installation screen will appear after setup.exe is launched.  $\Rightarrow$  Click the [Next] button. To abort the installation, click [Cancel].

🕼 9000Series Configuration - Ir	stallShield Wizard	Х
2	Welcome to the InstallShield Wizard for 9000Series Configuration	
	The InstallShield(R) Wizard will install 9000Series Configuration on your computer. To continue, click Next.	
	WARNING: This program is protected by copyright law and international treaties.	
	< Back Next > Cancel	

#### NOTE

- Make sure you have read and fully understand the terms of the software license agreement before installing the software.
- Precautions for installing

This software requires libraries for various drivers for the Windows system. Installing the software automatically initiates the processing required to incorporate these libraries. However, if you are using Windows system, you will be asked to install system libraries with administrator privileges. Follow the instructions displayed to log in as an administrator and install the system libraries. You will then be asked to restart Windows. When Windows restarts, log in once again as a general user, then install the application.

(To install the libraries and the application, simply launch setup.exe. Administrator privileges are required only if the necessary libraries are not present in the system folder.)

## 2-4-2 Accept license agreement

The license agreement screen is displayed.

⇒ Consent to the license agreement by selecting the corresponding radio button and click [Next] to install the software. To abort the installation, click [Cancel].

To go back and review the previous page, click [Back].

뤻 9000Series Configuration - InstallShield Wizard	$\times$
License Agreement Please read the following license agreement carefully.	
RIKEN KEIKI CO., LTD SOFTWARE LICENSE AGREEMENT	^
PLEASE READ THIS SOFTWARE LICENSE AGREEMENT "LICENSE" CAREFULLY BEFORE USING THE SOFTWARE. BY USING THE SOFTWARE YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, DO NOT USE THE RIKEN KEIKI SOFTWARE AND (IF APPLICABLE) RETURN THE SOFTWARE TO THE PUVCHASE LOCATION.	
	~
I accept the terms in the license agreement     Print	
$\bigcirc$ I <u>d</u> o not accept the terms in the license agreement	
InstallShield	
< <u>B</u> ack <u>N</u> ext > Cancel	

## 2-4-3 User information

A screen is displayed for entering user information.

⇒ Enter the required details and click [Next] to install the software. To abort the installation, click [Cancel]. To go back and review the previous page, click [Back].

🔀 9000Series Configuration - InstallShie	eld Wizard		×
Customer Information Please enter your information.			2
User Name:			
0rganization:			
1			
InstallShield			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

## 2-4-4 Installation destination folder

The installation destination folder is displayed. (To change the folder, click [Change] and specify another folder.)

 $\Rightarrow$  To install the software, click [Next]. To abort the installation, click [Cancel].

To go back and review the previous page, click [Back].

👘 9000Seri	es Configuration - InstallShi	eld Wizard		×
Destinatio	on Folder t to install to this folder, or click	Change to install to	a different folder.	2
	Install 9000Series Configuratic C:¥Program Files (x86)¥Confi			<u>C</u> hange
InstallShield -				
		< <u>B</u> ack	<u>N</u> ext >	Cancel

## 2-4-5 Start setup

Final confirmation to install the software

 $\Rightarrow$  To install the software, click [Install]. To abort the installation, click [Cancel]. To go back and review the previous page, click [Back].

🕼 9000Series Configuration - InstallShield Wizard	×
Ready to Install the Program	
The wizard is ready to begin installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
Current Settings:	_
Setup Type:	
Typical	
Destination Folder:	
C:¥Program Files (x86)¥Config9000¥	
User Information:	
Name:	
Company:	
InstallShield	
< <u>B</u> ack Install Cancel	

## 2-4-6 Finish

A screen appears indicating that the installation is complete.

 $\Rightarrow$  Click [Finish] to end the installation.

🕼 9000Series Configuration - Ins	tallShield Wizard	Х
ک	InstallShield Wizard Completed The InstallShield Wizard has successfully installed 9000Series Configuration. Click Finish to exit the wizard.	
	< <u>B</u> ack <u>Finish</u> Cancel	

#### NOTE

- Make sure you have read and fully understand the terms of the software license agreement before installing the software.
- Saving past data before reinstalling

Note the following precautions if reinstalling the program: Uninstall the program before reinstalling. If the program is uninstalled after it has been used, some files may remain undeleted. If you wish to save past data, save these files to another location before deleting the folder.

Precautions for installing

This software requires libraries for various drivers for the Windows system. Installing the software automatically initiates the processing required to incorporate these libraries. However, if you are using Windows system, you will be asked to install system libraries with administrator privileges. Follow the instructions displayed to log in as an administrator and install the system libraries. You will then be asked to restart Windows. When Windows restarts, log in once again as a general user, then install the application.

(To install the libraries and the application, simply launch setup.exe.

Administrator privileges are required only if the necessary libraries are not present in the system folder.)

# 2-5 Uninstallation procedure

The exact procedure may vary depending on the particular Windows version used. Refer to the user manual for the environment being used (e.g., Windows 10).

To uninstall the software, click [Start] on the taskbar, click [Settings], and launch the Control Panel.

			-	-					
Settings							— C	) X	
			W	indows Settings/					
		[	Find a setting		Q				
	System Display, power	sound, notifications,		Devices Bluetooth, printers, mouse		Phone Link your Android, iPhone			
		<b>rk &amp; Internet</b> irplane mode, VPN	Ą	Personalization Background, lock screen, colors		<b>Apps</b> Uninstall, defaults, optional features			
		n <b>ts</b> counts, email, sync, ther people	色 A字	Time & Language Speech, region, date	$\bigotimes$	<b>Gaming</b> Xbox Game Bar, captures, Gar Mode	ne	~	
		FAccess r, magnifier, high t	Q	Search Find my files, permissions	A	Privacy Location, camera, microphone	L L	)per	n this
		e & Security							

Click to open [Apps] in the Control Panel. Clicking [Apps] opens the following window:

← Settings		-	×
命 Home	Apps & features		
Find a setting $\wp$	Apps & features		
Apps	Optional features		
E Apps & features	App execution aliases		
E Default apps	Search, sort, and filter by drive. If you would like to uninstall or move an app, select it from the list.		
印 Offline maps	9000Series Configuration		
Apps for websites	Sort by: Name $\checkmark$ Filter by: All drives $\checkmark$ 1 app found		
□ Video playback	9000Series Configuration 2.18 MB 12/27/2021		
	1.00.0014		
	Modify Uninstall		
	9000Series Configuration		
	1.00.0010		
	Related settings		
	Programs and Features		

Click [9000Series Configuration]. Click [Uninstall] to display the confirmation window.

← Settings	-	
பி Home	Apps & features	
Find a setting	Apps & features	
Apps	Optional features	
IΞ Apps & features	App execution aliases Search, sort, and filter by drive. If you would like to uninstall or move an app, select it from the list.	
Default apps	9000Series Configuration ×	
邱」 Offline maps	Sort by: Name V Filter by: All drives V	
Apps for websites	1 app found	
□ Video playback	9000Series Configuration This app and its related info will be uninstalled.	
☐ Startup	1.00.0014 Uninstall	
	Modify Uninstall	
	9000Series Configuration	
	Rela 1.00.0010	
	Produces and a second se	

Click [Uninstall] again in the confirmation window to begin uninstalling. \* A User Account Control dialog is displayed. Click [Yes].

#### NOTE

The message [Do you want to remove the shared file?] may appear during the uninstallation. Select [No]. Selecting [Yes] may affect other applications.

# **Operating Procedures**

Launch the program by clicking the [9000Series Config] shortcut on the desktop or from the Start menu.

## 3-1 Main unit preparation

- 1. Connect the gas detector to the PC via a USB cable.
- 2. Enter the startup password (refer to '3-2 Entering the startup password') to launch the software.
- 3. Turn on the power to the gas detector main unit.

#### NOTE

The USB cable must be properly connected and the driver properly installed to enable communication with the gas detector.

## **3-2 Entering the startup password**

A password must be entered upon the startup of the program. The default setting is 0000.

[OK]: The software will start once the correct password is entered.

[Cancel]: Exits the software.

# 3-3 Main screen

Config9000 Pn	0.06764 (1.0.0.14)										- 1	o x	1
Change password			Read	Write			PID		Ρ	'ower OF	F	Quit	2
Serial No Model Parameter Senso	Station ID		User ID (Left sp	ace 20)	Date Ti PC Tim	L	Sens	board or board or R1 or R2	P.No.	SUM	Version	<b>^</b>	3
Serial No.		Disp mode item Ø HC range select Ø Peak reset Ø HD gas table Ø User ID Ø Startion ID Ø BLE On/Off Ø Buzzer volum To english	Vuser ID		Date For     Date For     HC Gas List     LCD Backer     Buzzer Volume	und	>						
Target not found													4
No.	Item		Descri	ption									
No. ①				e bar dis	splays the	applicat	ion nan	ne, pr	rogra	am	num	nber,	
	Item		The titl versior Used t	e bar dis າ. o set the	passwor				•				and
1	Item Title bar		The titl versior Used t configu	e bar dis n. o set the ure PID s	passwor	d, import	or exp	ort de	evice				and

The main screen is displayed once the password has been entered.

# 3-3-1 Control panel

Change password	Read         Write         PID         Power OFF         Quit
Item	Description
Password change	Changes the password required to launch the software.
Read	Imports setting information from the gas detector.
Write	Exports setting information to the gas detector.
PID	Runs the PID gas list function used to change the PID gas list.
	(Refer to '3-3-3 PID gas list function'.)
Power off	Turns off the power to the gas detector.
Exit	Exits the software.

#### 1. Password change

Changes the password required to launch the software.

#### [Display]

The [Password change] button is enabled when a detector is connected.

The [Password change] button is grayed out and disabled when no detector is connected. [Operation]

Clicking the [Password change] button displays the new password input dialog.

You can input single-byte alphanumeric and symbol characters in the input box. Input characters are displayed as "\*".



Enter the new password, then click the [OK] button to update the password and return to the configuration screen.

Clicking the [Cancel] button aborts the process and closes the dialog.

#### 2. Read

Imports setting information from the detector.

[Display]

The [Read] button is enabled when a detector is connected.

The [Read] button is grayed out and disabled when no detector is connected.

[Operation]

Click the [Read] button to start importing status information from the detector.

The status bar indicates the progress while the detector status is being imported.

The [Cancel] button is displayed on the status bar while the detector status is being imported.

9000Series	Cancel

Clicking the [Cancel] button while the detector status is being imported aborts the status import process.

The progress indicator and [Cancel] button on the status bar will disappear once the detector status import is complete.

#### NOTE

Depending on the usage environment and USB cable compatibility, communication may be disconnected unexpectedly after settings have been imported. If this occurs, re-import the settings before editing them.

#### 3. Write

Exports setting information to the gas detector. Configuration settings ('3-3-2 Configuration settings') and PID settings ('3-3-3 PID gas list function') that have been changed will not be reflected on the gas detector until this operation is performed.

#### [Display]

The [Write] button is enabled when a detector is connected.

The [Write] button is grayed out and disabled when no detector is connected or if setting information has not been imported as described in '2. Read'.

[Operation]

Click the [Write] button to display the write confirmation dialog.



Click the [OK] button in the write confirmation dialog to start exporting data to the detector.

Clicking the [Cancel] button in the write confirmation dialog cancels the export process and closes the dialog.

The status bar indicates the progress while data is being exported.

The [Cancel] button is displayed on the status bar while data is being exported.

	Contraction of the second seco
<ul> <li>9000Series</li> </ul>	Cancel
and the state of the	

Clicking the [Cancel] button while data is being exported aborts the export process. The progress indicator and [Cancel] button on the status bar will disappear once the export is complete, and the exit dialog will appear.

#### NOTE

- > After exporting data, click [Read] to confirm the settings have been updated correctly.
- If the connection is lost even for an instant, the [Write] button will be grayed out and the operation will be disabled.

If this occurs, repeat the operation from [Read].

#### 4. PID

Activates the PID gas list function used to change the PID gas list (refer to '3-3-3 PID gas list function').

Sho	# User List 💿	10.6 eV 🔿 10.0 eV 🔾	11.2 eV B	t bea	Arite Imp	art Expo	et Confi	e	Power O	FF Qu
F Gas name		Factor	MolecularWeight	Short name	[ppb] 1st Alarm	[ppb] 2nd Alarm	[opb] STEL	[ppb] TWA	[ppb] Alarm type	(ppm) 1st Alarm
Acetaldehyde	C2H4O	3.40	44.05316	VOC	5000	10010	-	-	H-HH	4(
Acetamide	C2H5N0	2.00	58.08784	VOC	5000	10010			H-HH	41
Acetic acid	C2H4O2	35.20	60.05255	VOC	5000	10010	-	-	H-HH	41
Acetic anhydrid	e C4H6O3	4.00	102,0898	VOC	5000	10080	-		H-HH	41
Acetoin	C4H8O2	1.00	88.10632	VOC	5000	10010			H-HH	41
Acetone	CSHEO	0.70	58.03004	VOC	5000	7510	-		H-HH	51
Acetophenone	CEHIO	0.60	120.1509	VOC	5000	10080	-		H-HH	41
Acetyl bromide	C2H1BrO	3.00	122.9492	VOC	5000	10010	-		H-HH	41
Acetylelycine, M	- C4H7NOS	2.00	117.1045	VOC	5000	10010			H-HH	4
Acrolein	CSH4O	3.20	56.05416	VOC	5000	10010			H-HH	4
Acrylic Acid	C8H4O2	2.70	72.05255	VOC	5000	10010	-	-	H-HH	4
Alkanes, nr. 08	<ul> <li>GnH2n+2</li> </ul>	1.00	0	VOC	5000	10010			H-HH	4
Allyl acetoacete	ite C7H10O3	1.50	142.1546	VOC	5000	10010			H-HH	4
Allyl alcohol	CSHIO	2.10	58.03004	VOC	5000	10010	-		H-HH	4
Allyl bromide	C3H5Br	3.00	120.9767	VOC	5000	10010	-		H-HH	4
Allyl chloride	CSHISCI	4.50	76.5254	VOC	5000	10010	-		H-HH	4
Allyl glycidyl et	h. C6H10O2	0.80	114.1442	VOC	5000	10010			H-HH	4
Allyl propyl dis.	J. C6H1252	0.40	148.2933	VOC	5000	10010	-		H-HH	4
Ammonia	NH3	8.50	17.03055	VOC	5000	10010	-	-	H-HH	4
Anyl acetate	C7H14O2	1.80	130.187	VOC	5000	10010			H-HH	4
Anyl alcohol	C5H120	3.50	88.14968	VOC	5000	10010	-		H-HH	4
Anyl alcohol, te	r. 05H120	1.50	88.14968	VOC	5000	10010	-		H+HH	4
Anethole	C10H12O	0.40	148.2047	VOC	5000	10010	-	-	H-HH	4
Aniline	C6H7N	0.48	93.12832	VOC	5000	10010	-		H-HH	4
Anisole	C7HIO	0.50	100.1399	VOC	5000	10010			H-HH	4

#### 5. Power off

Turns off the power to the gas detector.

#### 6. Exit

Exits the software.

## 3-3-2 Configuration settings

This is used to configure various gas detector settings.

Change password	Read	Write	PID	Power OFF Quit
erial No. EIGI_9000 Station II lodel 9000Series	D User ID [ (Left space	PC Time	4/20/2023 11:03:36 AM Item 4/20/2023 11:01:53 AM Main board Set Sensor Boa Sensor B1	SPE-3408
rameter Sensor Station & User			Sensor R2	SPF-3360 ¥
ierial No. El/31_9000 Station 1 Interval Time(Sec) 300 ¢	D Viser ID	✓ Date Format	YYYY/MM/DD v	
Backlight Time(Sec) 30 () Beep Time(Sec) 300 () Beep Select Off ✓	Buzzer key sound All Off Key Off @ All On			
I Need to get bump Log				
Automatic start after successful bump test Automatic start after successful calibration	User Mode Password 0000		Charle and	
		Bump Reminder Bump Test Interval(Day) 30	Ø 02 Ø H2S Ø C0	imp Test past due Act ) Confirm to Blump ) Must Bump Test ) Notification Only

No.	Item	Description	Description			
1	Device	Displays the detector	Displays the detector information.			
	status					
2	Tab 1	Parameter: Sets	various gas detector settings.			
		Sensor: Sets	various sensor settings.			
		Station & user: Sets	the station ID and user ID.			
3	Tab 2	Display mode: Sets	various settings in display mode.			
		User mode: Sets	various settings in user mode.			

#### NOTE

Be sure to connect the gas detector and import data before using the configuration function to change settings.

#### 1. Device status

Serial No. EIGI 9000 Station ID	User ID USER_ID_001 Date Time 4/20/2023 11:03.36 AM Item P.No. SUM Version ↑ (Left space 0) PC Time 4/20/2023 11:01:53 AM Sensor board 05273 8AD0 00.014 Set Set Sensor R1 SPE-3408						
Item	Description						
Serial No.	Displays the serial number of the imported detector.						
Model	Displays the model of the imported detector.						
Station ID	Displays the station ID of the imported detector.						
User ID	Displays the user ID of the imported detector.						
Date and time	Displays the date and time of the imported detector.						
Synchronize	Synchronizes the date and time of the detector with the PC date and						
	time.						
Parts information	Displays the program number (five digits), SUM value (four digits), and						
(Main PCB, sensor PCB, etc.)	version (two + three digits). (Parts not in use are indicated by [-] in each						
	column.)						

#### NOTE

> The display is blank until the detector data is imported.

#### 2. Tab 1 (Parameter)

#### Sets various gas detector settings.

Parameter Sensor Station & User Serial No. EI31,9000 Station ID Interval Time(Sec) 300 🔄	Sensor R2 SPF-3368 V User ID V Date Format YYYY/MM/DD V
Item	Description
Serial No.	Input the detector serial number.
Station ID	Select the detector station ID.
User ID	Select the detector user ID.
Date format	Select the detector date format.
Interval trend measurement	Select the detector interval trend measurement cycle.
cycle (s)	

#### <Serial No.>

#### [Display]

Displays the detector serial number. (The display is blank until the detector data is imported.) [Operation]

You can input up to 20 single-byte alphanumeric and symbol characters for the serial number. If the serial number entered is less than 20 characters long, the remaining characters will be filled with half-width spaces.

#### <Station ID>

#### [Display]

Displays the station ID list imported from the detector or from a CSV file. (The display is unselected until the detector data is imported.)

#### [Operation]

Click the drop-down list box after importing ID data to display the list of imported IDs.



Select the desired station ID from the drop-down list.

Clicking outside the drop-down list while the ID list is displayed cancels the process.

#### NOTE

- The display is unselected until the station ID list is imported even after the detector data has been imported.
- No selection items are displayed until the station ID list is imported, even if you click the drop-down list box.
- ▶ For details of how to import the ID list, refer to '4. Tab 1 (Station & user)'.

#### <User ID>

#### [Display]

Displays the user ID list imported from the detector or from a CSV file. (The display is unselected until the detector data is imported).

#### [Operation]

Click the drop-down list box after importing ID data to display the list of imported IDs.



Select the desired user ID from the drop-down list.

Clicking outside the drop-down list while the ID list is displayed cancels the process.

#### NOTE

- The display is unselected until the user ID list is imported even after the detector data has been imported.
- No selection items are displayed until the user ID list is imported, even if you click the drop-down list box.
- ▶ For details of how to import the ID list, refer to '4. Tab 1 (Station & user)'.

#### <Date format>

【Display】

Displays the date format for the detector. (The display until the detector data is imported is YYYY/MM/DD for Japanese operating systems and MM/DD/YYYY for all other language operating systems.)

#### [Operation]

Clicking the date format displays the drop-down list. Three settings are available: DD/MM/YYYY, MM/DD/YYYY, and YYYY/MM/DD



Select and click a date format from the drop-down list to change the date format. Clicking outside the drop-down list while the date format list is displayed cancels the change.

#### <Interval trend measurement cycle (s)>

[Display]

Displays the detector interval trend cycle. (The display is [300] until the detector data is imported).

[Operation]

Changing the setting changes the interval trend cycle.

Seven settings are available: 10, 20, 30, 60, 180, 300, and 600

The setting can be altered with the spin buttons or by inputting the value directly.

Entering an invalid value for allowable cycles will change the entry to the nearest setting value.

#### 3. Tab 1 (Sensor)

Sets various sensor settings.

Parameter Sensor Station & User			Sensor R2	SPE-3360 Y
O2 40.0 %	H2S 200.0 ppm	CO 2000 ppm		
R Position 1	R	Position 2 😴	Position 3 🌩	
Alarm Calibration	Alarm Calibration	Alarm Calibration		
1st         18.0         %           2nd         25.0         %           STEL	1st         1.0         ppm           2nd         10.0         ppm           STEL         5.0         ppm           TWA         1.0         ppm	1st 2nd STEL TWA	25 ppm 50 ppm 200 ppm 25 ppm	
◯ H-HH ◯ L-LL	● H-HH ○ L-LL	○ L-H	O L-LL O L-H	
Zero suppress	Zero follower Zer	ro suppress 🗹 Zero follower	Zero suppress	
VOC 400.0 ppm / 4000 ppm	CH4 100.0 VOL%	CH4 100 %LEL		Reset alarm point
PIF Position 4	TEF	Position 5 🔹 NCF	Position 6 🖨	
Alarm Calibration	Alarm Calibration	Alarm Calibration		
1st 400.0 ppm   LO O HI	1st 25.0 VOL%	1st	10 %LEL	
2nd 1000 ppm O LO   HI	2nd 50.0 VOL%	2nd	50 %LEL	
STEL ******** ppm OLO  HI	STEL VOL%	STEL	%LEL	
TWA ★★★★★★★★★★★ ppm ◯LO ● HI	TWA VOL%	TWA	%LEL	
● H-HH OL-LL OL-H	● H-HH OL-LL	О L-Н	OL-LL OL-H	
Zero follower Zero suppress	Zero follower Zer	ro suppress Zero follower	Zero suppress	

Item	Description
Display position	Select the sensor display position from 1 to 6. The position to set must differ
	from those set for other sensors.
Gas alarm	Enter concentrations for the 1st, 2nd, STEL, and TWA gas alarms.
concentrations	If no alarm setpoint exists, [] is displayed. Alarm setpoints cannot be
	enabled for such sensors.
	Only the STEL and TWA alarm setpoints can be disabled. Setpoints that
	have been disabled will appear as [********].
	Enter a value to enable an alarm setpoint.
	* For more information on allowable gas alarm setpoint setting ranges, refer
	to the operating manual for the gas detector.
	* To change gas alarm setpoints, delete the current values before entering
	the new values.
Gas alarm range	Select whether alarm setpoints are set for either low range or high range with
	double ranges. (Settings are possible only for double ranges.)
Gas alarm type	Select the gas alarm type H-HH, L-LL, or L-H.
	* For H-HH/L-H: Set alarm setpoints so that $1st \leq 2nd$ .
	* For L-LL: Set alarm setpoints so that 2nd $\leq$ 1st.
Zero following	This lets you enable and disable zero following.
Zero suppression	This lets you enable and disable zero suppression.
Gas adjustment cylinder	Select a gas adjustment cylinder setting from 1 to 6.
setting	
Gas alarm setpoint reset	Resets the gas alarm setpoints to the factory default values.

#### NOTE

- ► The display is blank until the detector data is imported.
- Gas alarm setpoint reset is disabled if the specifications for the sensor mounted differ from the factory default settings. [Failed] will be displayed if you attempt alarm setpoint resetting.

### 4. Tab 1 (Station & user)

Sets the station ID and user ID.



#### NOTE

The [Read] button appears and the [Import csv file] button is enabled after detector data is imported. The ID list appears and the [Export csv file] button is enabled after the ID list data is imported. (The ID lists and [Read] buttons do not appear and the [Export csv file] and [Import csv file] buttons are disabled until the detector data is imported.)

## 5. Tab 2 (Display mode)

Sets various settings in display mode.

Disp mode User mode	Disp mode item V HC range select V Peak reset V Peak reset V Diges table V User ID V Startion ID V BLE On/Off V BLE On/Off V To english V To japanese	HC Gas List LCD Background Buzzer Volume O Low   High
9000Series		

Item	Description
DISP mode setting items	Toggles the various display mode settings on and off.
Conversion gas selection	<ul> <li>This can be altered if an NCF sensor is mounted and no TEF sensor is mounted.</li> <li>* NCF: New ceramic type sensor used for combustible gas %LEL detection</li> <li>* TEF: Thermal conductivity type sensor used for combustible gas vol% detection</li> </ul>
LCD background	Toggles the LCD background inversion on and off.
Buzzer volume	Switches the buzzer volume between high and low.

### 6. Tab 2 (User mode)

Backlight Time(Sec) 30 🖨	Buzzer key sound O All Off			
eep Time(Sec) 300 🖨	◯ Key Off			
eep Select Off ~	All On			
Need to get Bump Log				
Automatic start after successful bump test	User Mode Password 0000			
Automatic start after successful calibration	Gas alarm function			
	🗹 Gas alarm Latching	Bump Reminder	Check gas	Bump Test past due Act
Adjust CO2 sensor with air calibration	🗌 Auto Fresh Air Adj		✓ O2	Confirm to Bump
	Zero Adjustment on demand		✓ H2S ✓ CO	O Must Bump Test
	Language Japanese 🗸	Bump Test Interval(Day) 30 🖨	VOC	<ul> <li>Notification Only</li> </ul>
	Japanese V		CH4	
ſ	_		CH4	
TEF base gas	BLE mode Off	Bump Test Parameter		
N2	On(Advertising)	Bump Test Time(Sec) 30 🛬	Bump Te	st Threshold(%) 50 🖨
○ INERT	🗹 Auto shutoff when idle	Calibration after Bump Test Failed C	alibration Time(sec) afte	r Bump Test Failed 90 🖨
		L		

• <sup>9005eries</sup> For an explanation of the operation of each item, please refer to the instruction manual of the gas detector itself.

Item	Description
Display backlight	Select from 0 to 255 seconds.
Beep interval	Operating interval for the confirmation beep (period for which the backlight is turned on when a key is pressed) Select from 5, 10, 20, 30, 40, 50, 60, 180, 300, 600, 1200, 1800, 2400, 3000, and 3600 seconds.
Beep operation	<ul> <li>The following selections are available:</li> <li>[Off], [LED], [Buzzer], [LED+Buzzer], [Bump/Cal], [Alarm alert],</li> <li>[Bump/Cal/Alarm]</li> <li>* For information on individual operations, refer to '5-7-4 Confirmation beep operation' in the detector operating manual.</li> </ul>
Bump log required	This item is used with the beep operation. Can be toggled on and off. Adds the requirement to download the history using the data logger software when resetting the Bump/Cal, Alarm alert, or Bump/Cal/Alarm operation.
Auto start when bump is successful	Can be toggled on and off. * Refer to '8-3 Performing bump tests' in the detector operating manual.
Auto start when	Can be toggled on and off.
adjustment is successful	* Refer to '8-2-5 Performing span adjustment' in the detector operating manual.
CO2 sensor fresh air adjustment	Can be toggled on and off. * Refer to '7-4-2 Enabling/disabling CO2 fresh air adjustment' in the detector operating manual.
TEF base gas	Can be switched to N2 or INERT. * Refer to '7-4-3 Selecting base gas adjustment gas type' in the detector operating manual.
Buzzer/Key operation	Can be switched to [All off], [Key off], or [All on].
tone	* Refer to '6-4-7 Setting the buzzer volume' in the detector operating manual.
User password	Toggles the user mode password on and off; allows the password to be changed. * Refer to '7-2 Switching to user mode' in the detector operating manual.
Gas alarm function	Can be toggled on and off. * Refer to '7-3-5 Enabling/disabling the alarm function' in the detector operating manual.
Gas alarm self-latching	Can be toggled on and off. * Refer to '7-3-3 Setting alarm pattern' in the detector operating manual.
Auto zero adjustment	Can be toggled on and off. When enabled, a dialog appears to confirm whether to perform fresh air adjustment before starting measurement after the gas detector startup operation is complete.

Demand zero	Can be toggled on and off.
adjustment	* Refer to '5-6-2 Performing fresh air adjustment' in the detector operating
adjuotinont	manual.
Language	The following selections are available:
Lunguago	English, Japanese, Italian, Spanish, German, French, Portuguese, Russian,
	Korean, Chinese (SC), Chinese (TC), Vietnamese, Polish, Turkish, Slovak,
	Czech
	* Refer to '7-4-5 Setting the display language' in the detector operating
	manual.
BLE mode	Can be switched to [Off] and [On (Advertising)].
BEE mode	* Refer to '6-4-6 Setting Bluetooth device connection' in the detector
	operating manual.
Auto stop with no	Can be toggled on and off. When enabled, the Bluetooth function is
connection	automatically turned off if no communication occurs for 5 minutes while the
connection	function is turned on.
	* Refer to '6-4-6 Setting Bluetooth device connection' in the detector
A divertment expiration	operating manual.
Adjustment expiration	Can be toggled on and off.
display	* Refer to '5-4 Turning on the power - Adjustment expiration date display' in
	the detector operating manual.
Adjustment intervel	* Displayed on export models detectors only
Adjustment interval	Select from 0 to 1,000 days. This is the number of days used to calculate the
	bump test expiration date.
<u> </u>	* Displayed on export models detectors only.
Adjustment target gas	Select the gas types to monitor with the adjustment expiration display
selection	function. If the setting is disabled, the set gas types will not be used to
	determine bump test expiration.
	* Displayed on export models detectors only.
Operation after	The following selections are available:
adjustment expiration	[Use after checking], [Use prohibited], [Do nothing]
	* Refer to '5-4 Turning on the power - Adjustment expiration date display' in
	the detector operating manual.
	* Displayed on export models detectors only.
BUMP REMINDER	Can be toggled on and off.
	* Refer to '5-4 Turning on the power - BUMP REMINDER' in the detector
	operating manual.
Bump test interval	Select from 0 to 30 days. This is the number of days used to calculate the
	bump test expiration date.
Bump test target gas	Select the gas types to monitor with the bump test expiration function. If the
selection	setting is disabled, the set gas types will not be used to determine bump test
	expiration.
Operation after bump	The following selections are available:
test expiration	[Use after checking], [Use prohibited], [Do nothing]
	* Refer to '5-4 Turning on the power - BUMP REMINDER' in the detector
	operating manual.
Bump test time	The time until testing starts after bump test starts. Select from 30, 40, 50, 60,
-	70, 80, and 90 seconds.
	* Refer to '8-3 Performing bump tests' in the detector operating manual.
Calibration after bump	Can be toggled on and off. Sets whether to perform calibration automatically if
test failure	a bump test fails.
	* Refer to '8-3 Performing bump tests' in the detector operating manual.
Tolerance	This sets the threshold for checking the test gas. Select from 10, 20, 30, 40,
	and 50 %.
	* Refer to '8-3 Performing bump tests' in the detector operating manual.
Calibration time	The time until adjustment starts after bump test starts. Select 90 or 120
	seconds.
	* Refer to '8-3 Performing bump tests' in the detector operating manual.
	I TOTOLIO OFO FETIOITIINI DUMP LESIS IN LITE DELECTOR OPERALING MANUAL.

## 3-3-3 PID gas list function

Click [PID] on the control panel to activate the PID gas list function.

Use this function to alter the PID gas list.

Operation is possible even without a PID sensor, but writing is not reflected in the operation.

FG				11.7 eV R	ead W	/rite Imp	ort Expo	rt Confie	t	Power O	IFF G
	àas name	Formula	Factor	MolecularWeight	Short name	[ppb] 1st Alarm	[ppb] 2nd Alarm	[ppb] STEL	[ppb] TWA	[ppb] Alarm type	[ppm] 1st Alarm
Is	obutane	C4H10	8.00	58.1234	VOC	5000	10000	-	-	н-нн	4
Is	obutanol	C4H10O	3.50	74.1228	VOC	5000	10000	-	-	H-HH	
Is	obutyl acetate	C6H12O2	2.30	116.1601	VOC	5000	10000	-	-	H-HH	4
Is	obutyl acrylate	C7H12O2	1.30	128.1711	VOC	5000	10000	-	-	H-HH	4
Is	obutylbenzene	C10H14	0.40	134.2212	VOC	5000	10000	-	-	H-HH	
@ Is	obutylene	C4H8	1.00	56.10752	VOC	5000	10000	-	-	H-HH	
Is	obutylene epox	C4H8O	3.00	72.10692	VOC	5000	10000	-	-	н-нн	
Is	obutyraldehyde	C4H8O	1.20	72.10692	VOC	5000	10000	-	-	H-HH	
Is	obutyric acid	C4H8O2	4.00	88.10632	VOC	5000	10000	-	-	н-нн	
Is	odecanol	C10H22O	0.90	158.2841	VOC	5000	10000	-	-	H-HH	
Is	oeugenol	C10H12O2	0.40	164.2041	VOC	5000	10000	-	-	н-нн	
Is	oheptane	C7H16	1.20	100.204	VOC	5000	10000	-	-	H-HH	4
Is	ojasmone	C11H18O	0.70	166.2633	VOC	5000	10000	-	-	H-HH	4
Is	omenthone	C10H18O	0.60	154.2523	VOC	5000	10000	-	-	H-HH	4
Is	ononanal	C9H18O	9.00	142.2413	VOC	5000	10000	-	-	н-нн	4
Is	ononanol	C9H20O	1.50	144.2572	VOC	5000	10000	-	-	H-HH	4
Is	ooctane	C8H18	0.74	114.2309	VOC	5000	10000	-	-	H-HH	4
Is	ooctanol	C8H18O	1.70	130.2303	VOC	5000	10000	-	-	H-HH	4
Is	opentane	C5H12	4.00	72.15028	VOC	5000	10000	-	-	н-нн	4
Is	opentene	C5H10	0.80	70.1344	VOC	5000	10000	-	-	H-HH	4
Is	ophorone	C9H14O	0.80	138.2096	VOC	5000	10000	-	-	H-HH	
Is	ophorone diiso	C12H18N2O2	0.60	222.28	VOC	5000	10000	-	-	H-HH	
Is	oprene	C5H8	0.80	68.11852	VOC	5000	10000	-	-	H-HH	
Is	opropanol	C3H8O	4.40	60.09592	VOC	2000	4000	-	-	H-HH	:
Is	opropanolamine	C3H9NO	1.50	75.1106	VOC	5000	10000	-	-	H-HH	

Item	Description
Import	Imports PID gas table data from a separate file and updates the gas table data
	displayed.
Export	Outputs the displayed gas table data as a file.
Config	Activates the configuration function to alter the gas detector settings (returns to the main screen).
User list display	Displays the user list to edit.
	The user list makes it easier to select frequently selected gases.
PID sensor type	Select a PID sensor type for viewing and editing from 10.6 eV, 10.0 eV, and
selection	11.7 eV.
	The LED mounted must be checked and specified.
Table item names	Items including gas names and chemical formulas. Click to resort by item
	contents.
Gas highlighted in	The gas displayed initially when a PID sensor is first mounted
pink	The gas displayed initially can be changed by right-clicking and selecting [Set to default].
Gas highlighted in blue	The gas currently selected. Double-click or right-click to select [Edit], [Delete], [Set to default], [Select for F1], [Select for F2], or [Select for F3].
F column	[@] is displayed in this column for gases for which conversion is performed using a PID sensor.
	Select gases by right-clicking and selecting [Select for F1], [Select for F2], or [Select for F3].
	<ul> <li>* F1, F2, and F3 indicate the sensor slots described in the detector operating manual, and allow gas conversion using PID sensors mounted in the corresponding slots.</li> </ul>
Number of items	Displays the number of the gases currently displayed.
Data version	Displays the PID list version.

Select all	Selects all gases in the list. Click with all gases selected to deselect all except the following gases:
	<ul> <li>Default setting gas (gas highlighted in pink)</li> </ul>
	<ul> <li>F selection gases (PID sensor conversion gases selected in the F column)</li> </ul>
	<ul> <li>Isobutylene (calibration gas)</li> </ul>
	Gases set in the user list

#### NOTE

The list displayed before importing contains the values saved to the PC. For this reason data to be edited inside the detector must be imported before entering new settings.

#### 1. Import

Imports gas table data from a separate file and updates the gas table data displayed. Select the file, then click [Open].



The following confirmation dialog is displayed when updating data:

PID	×	
?	Do you take over "Short name" and "Alarm point" ?	
	Yes <u>N</u> o Cancel	

Clicking [Yes] updates the gas table data including abbreviated names and alarm setpoints. Clicking [No] updates the gas table data not including abbreviated names and alarm setpoints. Clicking [Cancel] cancels updating the gas table data.

#### 2. Export

Outputs the displayed gas table data as a file.

	ppData > Roaming > 9000Series Config	~	G	, 9000Series Cor	nfigの検索
整理 ▼ 新しいフォルダー					≣≣ <b>▼</b> (?
	名前	∨ 更新日時		種類	サイズ
🖈 クイック アクセス	log	2021/10/29	12:30	ファイル フォルダ	_
o Creative Cloud Files	PIDlist.pgl	2021/03/16	14:26	PGL ファイル	
PC					
🥣 ネットワーク					
	<				
ファイル名(N):	<				

#### 3. User list display

The user list makes it easier to select frequently selected gases. Up to 30 gas types can be set. It is displayed when the user list display is checked.

2	ihow User List 🔘	10.6 eV 🔿 10.0 eV 🔾	11.7 eV R	ead	Write	Imp	ort	Export	Config	F	Power OFF Q
F Gas name		Factor	MolecularWeight	Short name	Edi	t User List		F Gas name	e Formula	Factor	MolecularWeig
Acetaldehyd	e C2H4O	3.40	44.05316	VOC		Add	•	Isobutylen	e C4H8		1.00 56.10
Acetamide	C2H5NO	2.00	59.06784	VOC	-						
Acetic acid	C2H4O2	36.20	60.05256	VOC							
Acetic anhy	dride C4H6O3	4.00	102.0898	VOC							
Acetoin	C4H8O2	1.00	88.10632	VOC							
Acetone	C3H6O	0.70	58.08004	VOC	T						
Acetophenor	e C8H8O	0.60	120.1509	VOC							
Acetyl brom	ide C2H3BrO	3.00	122.9492	VOC							
Acetylglycin	e, N- C4H7NO3	2.00	117.1045	VOC	_						
Acrolein	C3H4O	3.20	56.06416	VOC							
Acrylic Acid	C3H4O2	2.70	72.06356	VOC							
Alkanes, n-,	C6+ CnH2n+2	1.00	0	VOC							
Allyl acetoa	cetate C7H10O3	1.50	142.1546	VOC							
Allyl alcohol	C3H6O	2.10	58.08004	VOC							
Allyl bromide	C3H5Br	3.00	120.9767	VOC							
Allyl chlorid	C3H5CI	4.50	76.5254	VOC							
Allyl glycidy	l eth C6H10O2	0.80	114.1442	VOC							
Allyl propyl	disul C6H12S2	0.40	148.2933	VOC							
Ammonia	NH3	8.50	17.03056	VOC							
Amyl acetat	c7H14O2	1.80	130.187	VOC							
Amyl alcoho	C5H12O	3.50	88.14968	VOC							
Amyl alcoho	l, ter C5H12O	1.50	88.14968	VOC							
Anethole	C10H12O	0.40	148.2047	VOC							
Aniline	C6H7N	0.48	93.12832	VOC							
Anisole	C7H8O	0.50	108.1399	VOC V							
				>			<				

ltem	Description
$[\rightarrow Add]$	Select a gas in the gas table data and click $[\rightarrow Add]$ to add that gas to the user
	list.
[← Delete]	Select a gas in the user list and click [←Delete] to delete that gas from the user
	list.
[↑ Up] [↓ Down]	Select a gas in the user list and click $[\uparrow Up]$ or $[\downarrow Down]$ to move the gas up or
	down in the user list.

#### NOTE

> The calibration gas isobutylene is automatically included in the user list and cannot be deleted.

### 4. Gas highlighted in blue

Double-click/right-click the gas highlighted in blue to perform various operations on that gas.

🍘 Co	-	C:\Users\3133\AppData\Roaming\9000Se	-						- 🗆 ×	
81	Show User List	) 10.6 eV 🔿 10.0 eV 🔿 11.7 eV	Read Wr	ite Impo	rt Expo	rt Confi	g	Power	OFF Quit	
	F Gas name 🔺 Formula	Factor MolecularWeight	Short name	[ppb] 1st Alarm	[ppb] 2nd Alarm	[ppb] STEL	[ppb] TWA	[ppb] Alarm type	(ppm) 1st Alarm	
	Isobutylene C4H8	1.00 56.1075		5000	10000	-	-	н-нн	400.0	
	Isobutylene enox C4H80	3.00 72.1069		5000	10000	-	-	н-нн	400.0	
	Isobutyr Delete	1.20 72.1069		5000 5000	10000	-	-	н-нн	400.0	
	Isodeca Set as defaults	0.90 158.284		5000	10000	-	-	н-нн	400.0	
	Isoeuge Select for F1	0.40 164.204	I VOC	5000	10000	-	-	н-нн	400.0	
	Isohepta Select for F2	1.20 100.20	VOC	5000	10000	-	-	н-нн	400.0	
	Isojasm Select for F3	0.70 166.263		5000	10000	-	-	H-HH	400.0	
dit	i leementkere (CHID190)			rm setp	pints and	d abbrev	viated n	ame		
EditYou can edit the gas alarm setpoints and abbreviated name.DeleteYou can delete the gas (except the isobutylene calibration gas)				) from the	gas					
		table data.								
et to d	lefault	You can change the gas initially displayed when using the detector (change								
		the gas highligh	ted in pir	רk).						
elect f	or F1/Select	Select the gase	s for whi	ch conv	ersion is	perforn	ned usir	ng a PII	) sensor. I	F1,
r F2/S	Select for F3	F2, and F3 indic	ate the s	sensor s	lots des	cribed i	n the de	etector o	operating	
		manual, and [@	] is indic	ated in t	he F col	umn wh	ien sele	cted.		

Click [Edit] to display the gas details and edit the gas alarm setpoints and abbreviated name.

Gas name (cannot	Displays the gas name.		Gas Detail					
be edited)			Gas name	Isob	utylene			
Chemical formula	Displays the chemical formula.		Formula	C4H	8			
(cannot be edited)			Factor		1.00			
Coefficient (cannot	Displays the calculation coefficient		Molecular	Weight	56.1075	52		
be edited)	for the gas with re	espect to the	Short nam	ne VOC				
	isobutylene calibr	ation gas.	-PIF-001	ppb]				
Molecular weight	Displays the molecular weight.		1st Alarm	5000	)			OFF
(cannot be edited)			2nd Alarn STEL	n 1000	)0			OFF
Abbreviated name	Displays the abbr	Displays the abbreviated name.		-				OFF
	You can input up	to three single-	TWA	-		<u></u>	<u></u>	OFF
	byte alphanumeri	-		• H	I-HH	O L-LL	○ L-H	
1st alarm	Displays the alarr	n concentration.	-PIF-002	[oom]				
2nd alarm	The setting range	will be as follows	1st Alarm		0			OFF
STEL	depending on the full scale for each		2nd Alarn	n [1000	)			OFF
TWA	sensor model:		STEL	-				OFF
	Sensor model	Setting range	TWA	-		-	-	OFF
	PIF-001	0 - 40,000 ppb		• H	I-HH	○ L-LL	○ L-H	
	PIF-002	0 - 4,000 ppm				OK		Cancel
	PIF-003	0 - 100 ppm						
	PIF-004	0 - 1,000 ppm						
	Click [OFF] for the STEL and TWA							
	alarms to display [-] and turn off the							
	corresponding alarm.							
H-HH, L-LL, L-H	Select the gas ala		1					
* This sensor	L-LL, or L-H.							
should normally	For the initial H-HH setting, the							
be used with	alarm setpoints are set so that 1st							
H-HH.	≤ 2nd.							

# **Usage Precautions**

Note the following precautions when using this program:

- ① Connect the USB cable correctly for receiving data.
- ② Avoid using similar functions on other applications at the same time when data is being received.
- ③ Do not force-quit this program (e.g., using the Ctrl + Alt + Del operation). The program shutdown processing saves configuration parameters for the next time the program starts. Force-quitting the program may cause problems the next time the program starts.
- ④ Do not directly rewrite data files.

# Troubleshooting

This troubleshooting section does not address causes of all problems that may occur with the product. It provides brief explanations to assist in determining the causes of common problems. If you encounter symptoms not addressed here or if problems persist even after taking corrective action, contact Riken Keiki.

Symptom/Display	Cause	Action		
Communication is not possible.	The USB cable is not correctly connected.	Confirm that it is correctly connected.		
	The COM port is not recognized. <sup>*1</sup>	Install the correct driver.		
	The driver is out of date.	Install the latest driver version.		
The detector connected via USB	The USB connection is not recognized.	Disconnect and reconnect the USB cable or restart the PC.		
is not recognized.	The detector is not in communication mode.	Connect the gas detector to the PC, then turn on the power to the detector once again with this software running.		
Displayed when Multiple CP210x multiple USB serial products are connected. converters are connected		Disconnect the USB connections except for the USB connection to the 9000 Series unit to be set.		

\*1 Launch Device Manager and check to confirm that [Silicon Labs CP210x USB to UART Bridge (COM number)] is displayed for the ports (COM and LPT). If the problems persist even after taking the action described above, please contact Riken Keiki.

# Software Function Specifications

Product name	0000 Sories Configuration Brogram			
(Program name)	9000 Series Configuration Program			
Product model	MT-9000 Series (EX)			
Executable file name	Config9000.exe			
Compatible operating systems	Microsoft Corporation			
	Windows 10			
	Windows 11			
Program size	Approx. 2 MB			
	(Uses up to 5 MB of hard disk space during installation.)			
	Serial interface (USB to UART)			
Communication with main unit	Baud rate: 921,600 bps			
	Data bits: 8 bits			
	Stop bit: 1 bit			
	Parity: Even			
Transmission time	Setting function approx. 30 seconds			
Transmission time	PID function approx. 6 minutes			

# **Revision History**

Issue	Revision details	Issue date	
0	First issue	2023/7/26	
1	Error correction	2023/9/27	