

ISO 9001  
ISO14001



Manufacturer

**TLV** CO., LTD.  
Kakogawa, Japan  
is approved by LRQA Ltd. to ISO 9001/14001



# CMRecorder User Guide

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Publication date 14 January 2026  
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# Introduction

Thank you for downloading CMRecorder.

This user guide introduces how to use CMRecorder to meet your needs. Before using this software, please read the user guide carefully and use accordingly.

# System requirements

iOS 14 or later

Android 8.1 or later

# Features

CMRecorder connects to Pocket TrapMan® PT3 (hereafter referred to as PT3) via Bluetooth® to communicate, manage, and create reports on data.

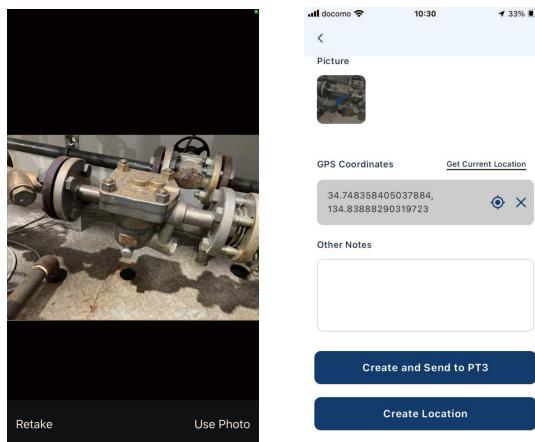
## 1. Enter and save location information

Detailed information such as location names and applications that cannot be entered in PT3 can be entered and saved.

A single site (file) can store up to 3,000 locations each for traps, valves, bearings, and user defined 1 to 3, for a total of 18,000 locations.

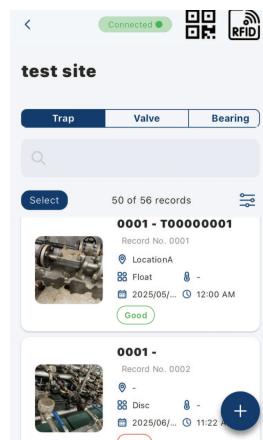
A site is a file that stores the inspection results. Inspection data from multiple locations can be stored.

Users can also take and save photos of traps and other equipment directly from the app.



## 2. Record inspection results and send location data

Inspection results from PT3 can be saved in CMRecorder. Location data can also be sent to PT3 for use in inspections.



### 3. Create a report

Report can be created from the information entered by the user and inspection results.



# One-time activation

Activation must be completed the first time using CMRecorder.

1. Select a language and tap [Next].

Language

English	✓
Français	
Deutsch	
Español	
Português	
日本語	
한국어	
中文	

2. Review and accept the Privacy Policy and Terms and Conditions, then tap [Agree].

<



Please review and agree to the following  
before continuing

[Privacy Policy](#)  
 [Terms and  
Conditions](#)

Agree



## Note

Both boxes must be checked to complete activation.

3. Complete all required fields and tap [Next].

EN

TLV

One-time Activation

First Name

Last Name

Email

Company Name

Industry

4. Tap [Send Activation Code].



5. You will receive the activation code via email, as shown below. Enter the activation code. Once license authentication is complete, the site index screen appears and one-time activation is complete. An email with a code will be sent to your email address. Enter the code within 10 minutes.

**TLV PT3 APP Activation Code**

Thank you for using the PT3 APP.

Here is your activation code to activate your PT3 APP.

Activation Code: **406149**

This code is valid for 10 minutes.

If you did not request this activation, you can safely ignore this email.

Best Regards,  
The TLV PT3 APP Team

**Activation Code**

An activation code has been sent to your email: hkimura@tv.co.jp

Resend code after: **1:45**

# Menu overview

CMRecorder has four main menu items.



Sites



Report



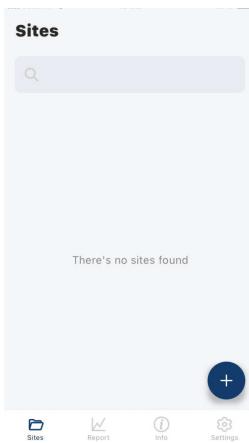
Info



Settings

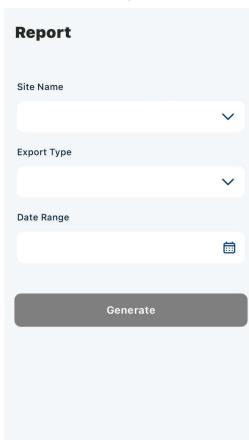
## 1. Sites

Create, view, and edit site and location information.



## 2. Report

Create reports based on inspection results.



### 3. Info

View information related to steam.



TLV

Home / Steam Resources / Steam Theory / What is Steam?

Basics of Steam

What is Steam?

Search in Steam Theory

Keyword  Search

How steam works  Steam as a Source of Power

Steam is the gas formed when water passes from the liquid to the gaseous state. At the molecular level, this is when molecules manage to break free from the bonds (hydrogen bonds) keeping them together.



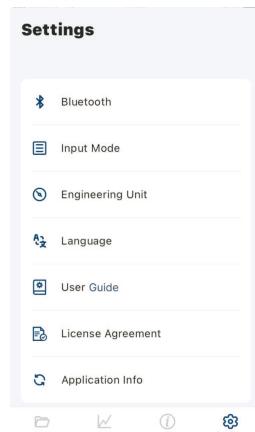
#### Note

Only available online.

### 4. Settings

Various settings can be configured. The main items are as follows:

- PT3 connection settings
- Input mode settings (Detailed Mode, Quick Mode), engineering unit selection, and language  
Refer to [Change the input mode \[68\]](#) for details.
- Links to the User Manual and License Agreement
- Application version information
- Data import, export or deletion



Settings

Bluetooth

Input Mode

Engineering Unit

Language

User Guide

License Agreement

Application Info

Home Back Stop Settings

# Create a site

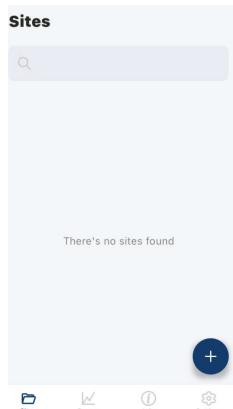
A site is a file that stores the inspection results. Inspection data from multiple locations can be stored.

1. Open [Sites].

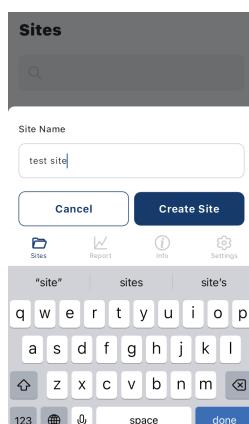


Sites

2. Tap [+].



3. Enter a site name and tap [Create Site].



4. Once the site is created, tap [Done].
5. Once created, the site will be displayed.



## Note

Up to 30 sites can be created.

# Create a location

A single site (file) can store up to 3,000 locations each for traps, valves, bearings, and user defined 1 to 3, for a total of 18,000 locations.

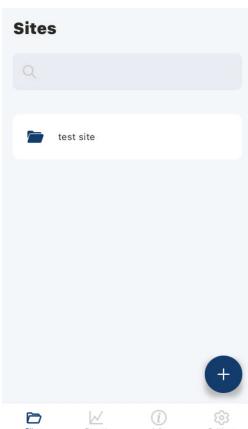
## Steam trap inspection

1. Open [Sites].

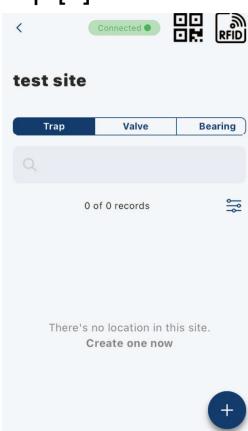


Sites

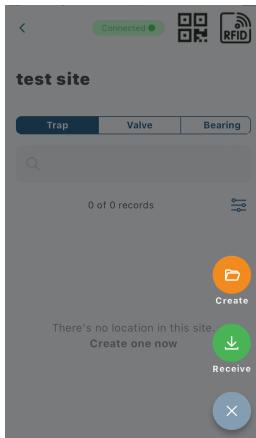
2. Tap the name of the site to create a location.



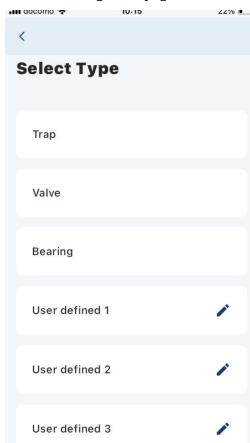
3. Tap [+].



4. Tap [Create].



5. Select [Trap] from the location types (Trap, Valve, Bearing, or User Defined 1 to 3).



6. Enter or select location information. After all required fields are entered or selected, tap [Next] to proceed to the next screen.

**Trap** RFID  
Detailed Mode  
Record Number: 0001

Area ID: 0001

Location ID: T00000001

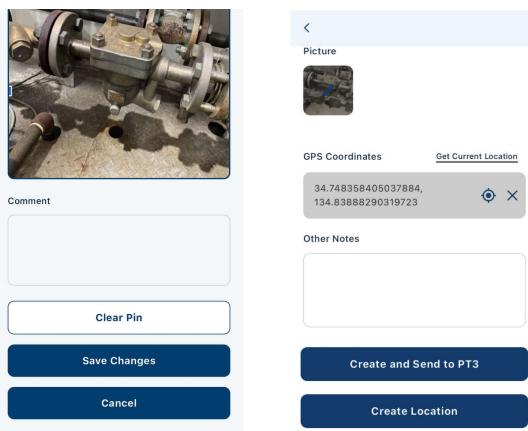
Location Name: LocationA

Priority: General

**Note**  
Refer to [Field descriptions and rules \[20\]](#) for details.

7. After all required fields are entered or selected, tap either [Create and Send to PT3] or [Create Location]. When [Create and Send to PT3] is tapped, the created location is displayed on PT3. Tap [Create Location] to save the record without sending it to PT3. Data must be sent to PT3 separately for inspection. Refer to [Sending data to PT3](#) for details. To take a photo, tap the camera icon. Take a photo or select an image from your photo library. Place a red marker on the photo to indicate the target area.

Tap [Get Current Location] to enter GPS. [Create and Send to PT3] is available only when the app is connected to PT3. Otherwise, it will be grayed out.



8. Tap [Done].
9. The created location will be displayed. When [Create and Send to PT3] is tapped, the created location is displayed on PT3.

## Valve inspection

1. Open [Sites].



Sites

2. Tap the name of the site to create a location.
3. Tap [+].
4. Tap [Create].
5. Select [Valve] from the location types (Trap, Valve, Bearing, or User Defined 1 to 3).
6. Enter or select location information. After all required fields are entered or selected, tap [Next] to proceed to the next screen.



### Note

Refer to [Field descriptions and rules \[20\]](#) for details.

7. After all required fields are entered or selected, tap either [Create and Send to PT3] or [Create Location]. When [Create and Send to PT3] is tapped, the created location is displayed on PT3. Tap [Create Location] to save the record without sending it to PT3. Data must be sent to PT3 separately for inspection. Refer to [Send data to PT3 \[32\]](#) for details. To take a photo, tap the camera icon. Take a photo or select an image from your photo library. Place a red marker on the photo to indicate the target area. Tap [Get Current Location] to enter GPS. [Create and Send to PT3] is available only when the app is connected to PT3. Otherwise, it will be grayed out.
8. Tap [Done].
9. The created location will be displayed. When [Create and Send to PT3] is tapped, the created location is displayed on PT3.

## Bearing inspection

1. Open [Sites].



## Sites

2. Tap the name of the site to create a location.
3. Tap [+].
4. Tap [Create].
5. Select [Bearing] from the location types (Trap, Valve, Bearing, or User Defined 1 to 3).
6. Enter or select location information. After all required fields are entered or selected, tap [Next] to proceed to the next screen.



### Note

Refer to [Field descriptions and rules \[20\]](#) for details.

7. After all required fields are entered or selected, tap either [Create and Send to PT3] or [Create Location]. When [Create and Send to PT3] is tapped, the created location is displayed on PT3.

Tap [Create Location] to save the record without sending it to PT3. Data must be sent to PT3 separately for inspection. Refer to [Send data to PT3 \[32\]](#) for details.

To take a photo, tap the camera icon. Take a photo or select an image from your photo library. Place a red marker on the photo to indicate the target area.

Tap [Get Current Location] to enter GPS. [Create and Send to PT3] is available only when the app is connected to PT3. Otherwise, it will be grayed out.

8. Tap [Done].
9. The created location will be displayed. When [Create and Send to PT3] is tapped, the created location is displayed on PT3.

## User defined location inspections

In User Defined, issues or abnormalities discovered on-site other than traps, valves, or bearings can be recorded together with photos or dB values obtained using the PT3 bearing inspection function. Observations can be easily saved and shared.

1. Open [Sites].



## Sites

2. Tap the name of the site to create a location.
3. Tap [+].
4. Tap [Create].
5. Select [User Defined] from the location types (Trap, Valve, Bearing, or User Defined 1 to 3).
6. Enter or select location information. After all required fields are entered or selected, tap [Next] to proceed to the next screen.



### Note

Refer to [Field descriptions and rules \[20\]](#) for details.

7. After all required fields are entered or selected, tap [Next] to proceed to the next screen.

To take a photo, tap the camera icon. Take a photo or select an image from your photo library. Place a red marker on the photo to indicate the target area.

8. After all required fields are entered or selected, tap either [Create and Send to PT3] or [Create Location].

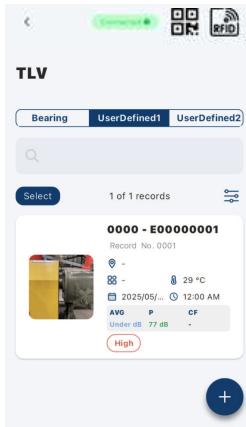
When [Create and Send to PT3] is tapped, the created location is displayed on PT3.

Tap [Create Location] to save the record without sending it to PT3. Data must be sent to PT3 separately for inspection. Refer to [Send data to PT3 \[32\]](#) for details.

Tap [Get Current Location] to enter GPS. [Create and Send to PT3] is available only when the app is connected to PT3. Otherwise, it will be grayed out.

9. Tap [Done].

10 The created location will be displayed. When [Create and Send to PT3] is tapped, the created location is displayed on PT3.



# Use RFID tags

Location information can be linked to an RFID tag for traps, valves, bearings, and User Defined 1 to 3.

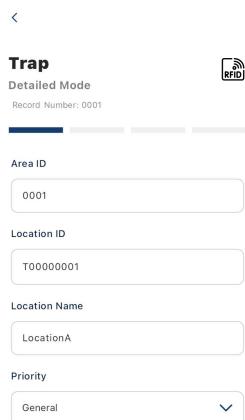


## Note

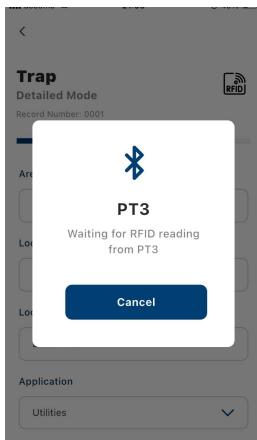
Make sure the instrument is connected via Bluetooth before using RFID tags. Refer to [Connect to PT3 \[27\]](#) for details.

## Register the RFID tag

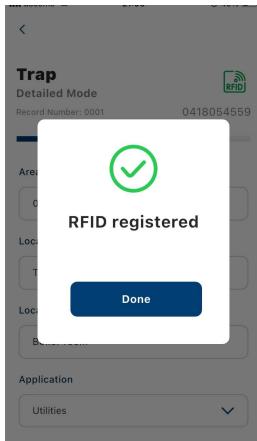
1. Tap the RFID button in the upper-right corner on the edit screen of the location to link.



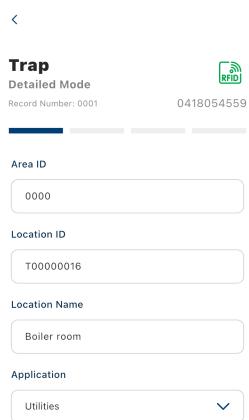
2. Scan the RFID tag with the instrument.



3. After the scanning is completed, tap [Done].



4. Once the RFID tag is registered, the RFID button turns green.



## Scan the RFID tag

1. Display the location list screen of the site where the RFID tag has been registered.
2. Tap the RFID button.
3. Make sure the instrument is ready, then scan the RFID tag.
4. The registered location is displayed.
5. Scanning an unregistered RFID tag, or a tag registered to a different site, an error message will be displayed.

## Unregister the RFID tag

1. Display the location information where the RFID tag you want to change is registered.
2. Display the edit screen and press and hold the RFID button.
3. Tap [OK].
4. Tap [Update?] on the final page to apply the change.

# Use QR codes

Location information can be retrieved using QR codes for traps, valves, bearings, and User Defined 1to 3.

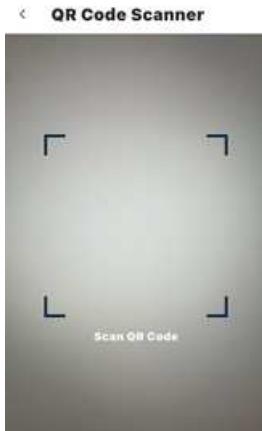


## Note

The QR codes to be read must be generated and output from CMRecorder. Refer to [Export QR codes \[61\]](#) for details.

## Scan the QR code

1. Display the location list screen of the site where the QR code has been registered.
2. Tap the QR code button.
3. After the QR code scanner started, scan the QR code.



4. The registered location is displayed.
5. Scanning an unregistered QR code, or a code registered to a different site, an error message will be displayed.

# Field descriptions and rules

All required fields must be entered or selected to save data.

## Trap

#	Field	Required	Description/Rules
	Area ID	Yes	The ID of the managed area. Automatically converted to a 4-digit number when entered. If left blank, 0000 will be entered. Example: 100 will be converted to 0100.
	Location ID		Trap management ID. Duplicate values for other locations are not allowed. Automatically converted to an 8-digit number prefixed with "T" when entered. Example: 100 will be converted to T00000100.
	Location Name		Enter a description of the installation location. Up to 100 characters can be entered. Example: Heat exchanger HX01, north side, end of the low-pressure line
	Application		Application of the steam trap. Select from Heating, Other, Tracing, Utilities, and Unspecified.
	Priority		Indicates the urgency level when a failure occurs. Can be used to prioritize replacements. Select from Critical, Environmental, General, Important, Safety Critical, Unknown, Very Critical, Very Important, and Unspecified.
	Elevation		Indicates where the trap is installed. Select from Outdoor High, Outdoor Low, Outdoor Ladder, Outdoor Lift, Indoor High, Indoor Low, Indoor Ladder, Indoor Lift, and Underground.
	Orientation		Indicates the direction in which the trap is installed. Select from Angle, Horizontal, Vertical, Inclination, Parallel, and Unspecified.
	Operating Pattern		Indicates how the steam-using equipment is controlled on the inlet side. Select from Fixed-Manual, Modulating, On-Off, Unclear, and Unspecified.
	Line Pressure		Upstream steam pressure of the steam-using equipment (e.g., upstream of a control valve). The line pressure is constant.
	Inlet Pressure	Yes	Inlet pressure of the steam trap. May vary depending on the control valve, etc. Refer to the PT3 operation manual for details. This information affects inspection results.
	Back Pressure		Steam trap outlet pressure.
	Condensate Recovery		Select whether condensate is recovered or not. Select Yes or No.
	Operating Hours		The number of hours per day that steam is supplied to the trap. Enter a number between 0 and 24.
	Operating Days		The number of days per year that the trap is in operation. Enter a number between 0 and 365.
	Frequency		Frequency at which steam is supplied to the equipment. Select from Abandoned, Batch, Continuous, Decommissioned, LOTO <sup>01</sup> , Occasional, Prefreeze, Seasonal, Spare, Startup Only, and Unknown.

#	Field	Required	Description/Rules
	Type	Yes	Trap operating principle. Select from Bucket, Disc, Float, Other, Temp. A, and Thermo. Refer to the <a href="#">Instruction Manual</a> for details. This information affects inspection results.
	Model Group		Select the steam trap model. Select from Other, SS1 (only when Float is selected as the operating principle).
			 <b>Note</b> To be added in a future update.
	Model		Enter the steam trap model. (e.g. SS1NH-21)
	Set Temperature <sup>02</sup>		The set temperature of the temperature control trap. If the temperature unit is Celsius, enter a number between 0 and 350. If the temperature unit is Fahrenheit, enter a number between 0 and 662.
	Serial Number		The serial number written on the nameplate of the steam trap. Up to 10 alphanumeric characters can be entered.
	Installation Date		Select the date the steam trap was installed.
	Connection Size		The size of the trap installed (mm). Select from 8, 10, 15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 175, 200, 225, and 250. For imperial units (inch), select from 0.25, 0.37, 0.5, 0.75, 1, 1.25, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 9, and 10.
	Connection Spec		Connection type of the installed trap. Select from SCREW NPT, SCREW BSP, SCREW BSPT, SCREW PT, SCREW OTHER, FLANGE ASME FF, FLANGE ASME RF, FLANGE PN, FLANGE JIS FF, FLANGE JIS RF, FLANGE JPI FF, FLANGE JPI RF, FLANGE Select from OTHER, WELD SW, WELD BW, and OTHER.
	Quick Connector		For quick connector traps only. Select With Strainer or Without Strainer.
	Bypass Valve		Indicates whether the bypass valve is open or closed. Select from Open, Close, Throttle, N/A <sup>03</sup> , and Unspecified.
	Inlet Valve		Indicates whether the trap inlet valve is open or closed. Select from Open, Close, Throttle, N/A, and Unspecified.
	Outlet Valve		Indicates whether the outlet valve is open or closed. Select from Open, Close, Throttle, N/A, and Unspecified.
	Inspection Result		Inspection result of the steam trap. The inspection results from PT3 will be displayed. The list of inspection results: Good, Leak, Blocked, No Check, Low Temp., Caution, Fail ADJ-H, and Fail ADJ-L
	Inspection Time		Inspection date. When inspection results are transferred from PT3, this field is filled in automatically. The current date and time is entered as the initial value.
	判定方法		作動判定の判定方法です。自動/手動から自動的で入力されます。  <b>Note</b> PT3で行った作動判定のみ【自動】となります。
	Picture		A photo of the steam trap. Take a photo or select an image from your photo library.
	GPS Coordinates		Location of the steam trap. Tap [Get Current Location].  <b>Note</b> Make sure that location services are enabled on your mobile device.

#	Field	Required	Description/Rules
	Other Notes		Enter comments, if any. Up to 1000 characters can be entered.

<sup>01</sup>LOTO: Lockout/tagout, a safety procedure that ensures equipment is shut off and cannot be restarted until maintenance or repair is finished.

<sup>02</sup>This field is required when "Temperature Control" is selected in the Type field. This information affects inspection results.

<sup>03</sup>N/A: Not Applicable. Select if no valve is installed.

## Valve

#	Field	Required	Description/Rules
	Area ID	Yes	The ID of the managed area. Only single-byte alphanumeric characters can be entered. Automatically converted to a 4-digit number when entered. If left blank, 0000 will be entered. Example: a01 will be converted to 0a01.
	Location ID		Valve management ID. Duplicate values for other locations are not allowed. Automatically converted to an 8-digit number prefixed with "V" when entered. Example: 100 will be converted to V00000100.
	Location Name		Enter a description of the installation location. Up to 100 characters can be entered. Example: Heat exchanger HX01, trap, bypass valve
	Application		Application of the equipment where the valve is installed. Select from Heating, Other, Tracing, Utilities, and Unspecified.
	Priority		Indicates the urgency level when a failure occurs. Can be used to prioritize replacements. Select from Critical, Environmental, General, Important, Safety Critical, Unknown, Very Critical, Very Important, and Unspecified.
	Elevation		Indicates where the trap is installed. Select from Outdoor High, Outdoor Low, Outdoor Ladder, Outdoor Lift, Indoor High, Indoor Low, Indoor Ladder, Indoor Lift, and Underground.
	Orientation		Indicates the direction in which the valve is installed. Select from Angle, Horizontal, Vertical, Inclination, Parallel, and Unspecified.
	Operating Pattern		Indicates how the valve is controlled on the inlet side. Select from Fixed-Manual, Modulating, On-Off, Unclear, and Unspecified.
	Line Pressure		Upstream steam pressure of the steam-using equipment (e.g., upstream of a control valve). The line pressure is constant.
	Inlet Pressure		Inlet pressure of the valve. May vary depending on the control valve, etc.
	Back Pressure		Valve outlet pressure.
	Condensate Recovery		For valves at condensate discharge locations, select whether condensate is recovered. Select Yes or No.
	Operating Hours		The period during which gas (including steam) is supplied to the equipment (i.e., equipment in service). Enter a number between 0 and 24.
	Operating Days		The number of days per year that the equipment is in operation. Enter a number between 0 and 365.
	Frequency		The frequency at which gases (including steam) are supplied to the equipment. Select from Abandoned, Batch, Continuous, Decommissioned, LOTO, Occasional, Prefreeze, Seasonal, Spare, Startup Only, and Unknown.

#	Field	Required	Description/Rules
	Type		Valve operating principle. Select from BALL, GATE, and GLOBE.
	External Leak		Select when gas (including steam) is leaking from the outside of the valve. Select from Gland, Valve Body, Valve Body Gasket, Valve Connection, and Unspecified.
	Serial Number		The serial number often written on the nameplate of the steam trap. Up to 10 alphanumeric characters can be entered.
	Installation Date		Select the date the valve was installed.
	Valve Size		The size of the valve installed (mm). Select from 8, 10, 15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 175, 200, 225, and 250. For imperial units (inch), select from 0.25, 0.37, 0.5, 0.75, 1, 1.25, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 9, and 10.
	Connection Spec		Connection type of the installed valve. Select from SCREW NPT, SCREW BSP, SCREW BSPT, SCREW PT, SCREW OTHER, FLANGE ASME FF, FLANGE ASME RF, FLANGE PN, FLANGE JIS FF, FLANGE JIS RF, FLANGE JPI FF, FLANGE JPI RF, FLANGE Select from OTHER, WELD SW, WELD BW, and OTHER.
	判定方法		作動判定の判定方法です。自動/手動から自動的で入力されます。  <b>Note</b> PT3で行った作動判定のみ【自動】となります。
	Test Result		Inspection result of the valve. The inspection results from PT3 will be displayed. The list of inspection results: Good, Leak, No Check, Not In Service, and Caution
	Inspection Time		Inspection date. When inspection results are transferred from PT3, this field is filled in automatically. The current date and time is entered as the initial value.
	Picture		A photo of the valve. Take a photo or select an image from your photo library.
	GPS Coordinates		Location of the valve. Tap [Get Current Location].  <b>Note</b> Make sure that location services are enabled on your mobile device.
	Other Notes		Enter comments, if any. Up to 1000 characters can be entered.

## Bearing

#	Field	Required	Description/Rules
	Area ID	Yes	The ID of the managed area. Automatically converted to a 4-digit number when entered. If left blank, 0000 will be entered. Example: 100 will be converted to 0100.
	Location ID		Bearing management ID. Duplicate values for other locations are not allowed. Automatically converted to an 8-digit number prefixed with "B" when entered. Example: 100 will be converted to B00000100.
	Location Name		Enter a description of the installation location. Up to 100 characters can be entered. Example: Boiler fan motor, load side
	Inspection Point		The point at which the bearing is inspected. Select from DE and NDE.

#	Field	Required	Description/Rules
	Inspection Direction		Direction for bearing inspection. Select from Horizontal, Vertical, and Axial.
	Rotating Equipment Type		Type of rotating equipment for the bearing. Select from Agitator, Blower, Centrifugal Pump, Centrifuge, Chiller, Compressor, Conveyor, Dryer, Extruder, Fan, Gear Pump, Gear Reducer, Mixer, Motor, Other, Pump, and Turbine.
	Priority		Indicates the urgency level when a failure occurs. Can be used to prioritize replacements. Select from Critical, Environmental, General, Important, Safety Critical, Unknown, Very Critical, Very Important, and Unspecified.
	Elevation		Indicates where the bearing is installed. Select from Outdoor High, Outdoor Low, Outdoor Ladder, Outdoor Lift, Indoor High, Indoor Low, Indoor Ladder, Indoor Lift, and Underground.
	Operating Hours		The time the equipment is powered (operating). Enter a number between 0 and 24.
	Operating Days		The number of days per year that the equipment is in operation. Enter a number between 0 and 365.
	Frequency		Operation cycle of the equipment. Select from Abandoned, Batch, Continuous, Decommissioned, LOTO, Occasional, Prefreeze, Seasonal, Spare, Startup Only, and Unknown.
	Serial Number		The serial number often written on the nameplate of the steam trap. Up to 10 alphanumeric characters can be entered.
	Installation Date		Select the date the motor or pump was installed. Only past or current dates can be selected.
	Average Value (Ref)		A threshold can be set for the peak value. Enter a number between 65 and 125.
	Peak Value (Ref)		A threshold can be set for the peak value. Enter a number between 65 and 125. Peak value required if average is entered.
	CF Value (Ref)		A threshold can be set for the CF value. Enter a number between 0 and 60.
	Picture (1 to 5)		Photos of the valve. Take a photo or select an image from your photo library.
	Inspection Time		Inspection date. When inspection results are transferred from PT3, this field is filled in automatically. The current date and time is entered as the initial value.
	GPS Coordinates		Location of the valve. Tap [Get Current Location].
	Other Notes		Enter comments, if any. Up to 1000 characters can be entered.

### User Defined (applicable to all)

#	Field	Required	Description/Rules
	Area ID	Yes	The ID of the managed area. Automatically converted to a 4-digit number when entered. If left blank, 0000 will be entered. Example: 100 will be converted to 0100.

#	Field	Required	Description/Rules
	Location ID		<p>The management ID. Duplicate values for other locations are not allowed. Automatically converted to an 8-digit number prefixed with "E", "F", or "G" when entered.</p> <p>Example: Example: 100 entered in User defined 1 will be converted to E00000100, and 500 entered in User defined 3 will be converted to G00000500.</p>
	Location Name		<p>Enter a description of the location of the equipment. Up to 100 characters can be entered.</p> <p>Example: Damaged grating on 2nd floor of route no. 10</p>
	Application Name		Enter the name of the device (application), etc.
	Priority		<p>Indicates the urgency level when a failure occurs. Can be used to prioritize replacements.</p> <p>Select from Critical, Environmental, General, Important, Safety Critical, Unknown, Very Critical, Very Important, and Unspecified.</p>
	Elevation		<p>Indicates where the equipment is installed. Can be used to prioritize replacements.</p> <p>Select from Outdoor High, Outdoor Low, Outdoor Ladder, Outdoor Lift, Indoor High, Indoor Low, Indoor Ladder, Indoor Lift, and Underground.</p>
	Orientation		<p>Indicates the direction in which the equipment is installed.</p> <p>Select from Angle, Horizontal, Vertical, Inclination, Parallel, and Unspecified.</p>
	Operating Hours		Number of hours in operation. Enter a number between 0 and 24.
	Operating Days		<p>The number of days per year that the equipment is in operation. Enter a number between 0 and 365.</p>
	Frequency		<p>Operation cycle of the equipment.</p> <p>Select from Abandoned, Batch, Continuous, Decommissioned, LOTO, Occasional, Prefreeze, Seasonal, Spare, Startup Only, and Unknown.</p>
	Model		Enter the model name.
	Serial Number		The serial number usually written on the nameplate of the equipment. Up to 10 alphanumeric characters can be entered.
	Installation Date		Select the installation date. Only past or current dates can be selected.
	Connection Size		Enter the connection size.
	Connection Spec		Enter the connection specifications.
	Other Notes		Enter comments, if any. Up to 1000 characters can be entered.
	Pressure 1 to 3		<p>Enter the pressure (MPa, bar, kgf/cm<sup>2</sup>, psi) at the first point to be measured.</p> <p>0 to 8 [MPa], 0 to 80 [bar], 0 to 80 [kgf/cm<sup>2</sup>], 0 to 1160 [psi]</p>
	Inspection Result		Enter comments, if any. Up to 100 characters can be entered.
	Note 1 to 5		Enter comments, if any. Up to 1000 characters can be entered.
	Picture		Photo of the equipment to be inspected or containing the inspected item(s). Take a photo or select an image from your photo library.
	GPS Coordinates		<p>Location of the valve. Tap [Get Current Location].</p> <div style="background-color: #e0f2e0; padding: 5px; margin-top: 5px;">  <b>Note</b>            Make sure that location services are enabled on your mobile device.         </div>
	Average Value (Ref)		A threshold can be set for the peak value. Enter a number between 65 and 125.

#	Field	Required	Description/Rules
	Peak Value (Ref)		<p>A threshold can be set for the peak value. Enter a number between 65 and 125. Peak value required if average is entered.</p> <div style="background-color: #e0f2e0; padding: 5px; border-radius: 5px; width: fit-content;">   <b>Note</b>            If an average value is entered, this becomes a required field.         </div>
	CF Value (Ref)		A threshold can be set for the CF value. Enter a number between 0 and 60.
	Inspection Time		Inspection date. When inspection results are transferred from PT3, this field is filled in automatically. The current date and time is entered as the initial value.
	検査コメント (Inspection Comment?)		Enter comments for the inspection item, if any. Up to 1000 characters can be entered.
	VibLight Color		Enter the VibLight LED color. Select from OK, 注意 (Caution?), 危険 (Danger?).

# Connect to PT3

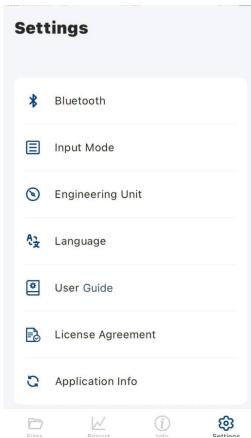
PT3 communicates via Bluetooth.

## Establish a new connection (to an unpaired PT3)

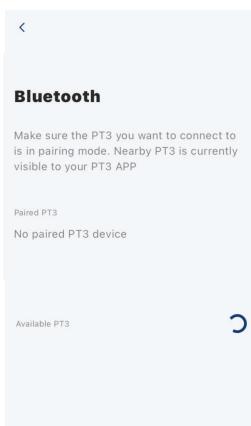
1. Make sure Bluetooth is enabled on PT3.
2. Open [Settings].



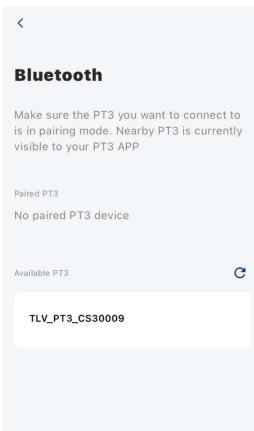
3. Tap [Bluetooth].



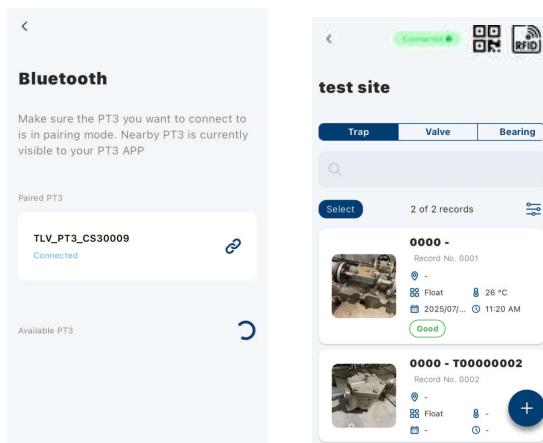
4. The Bluetooth setting screen opens, and the app searches for nearby PT3 devices available to connect.



5. Tap the device name under [Available PT3].



6. The connection will begin immediately. If the connection is successful, the paired PT3 will be displayed with its device name. The status shown in the top right of the site list and detail screens will change from [Connect] (gray) to [Connected] (green).



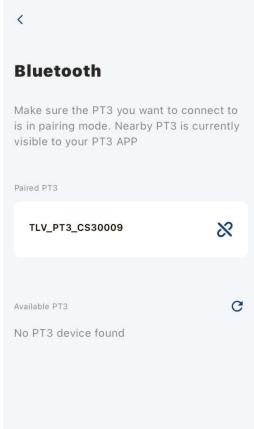
## Connect to a paired PT3

Make sure Bluetooth is enabled on PT3.

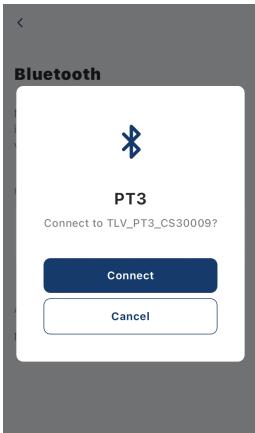
1. Open [Settings].



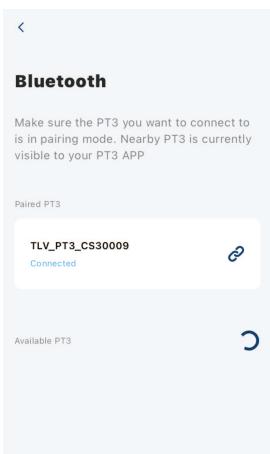
2. Tap [Bluetooth].
3. Tap  to the right of the device name displayed under [Paired PT3].



4. When the confirmation message appears, tap [Connect].



5. The icon to the right of the device name displayed in [Paired PT3] changes to  , indicating that the connection is disconnected.



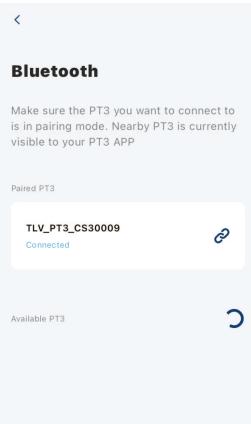
# Disconnect from PT3

## Disconnect from PT3 (without cancelling pairing)

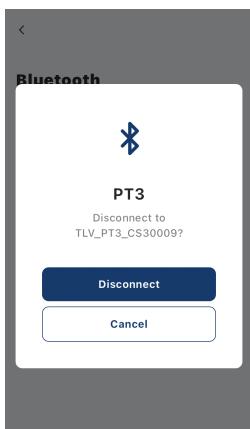
1. Open [Settings].



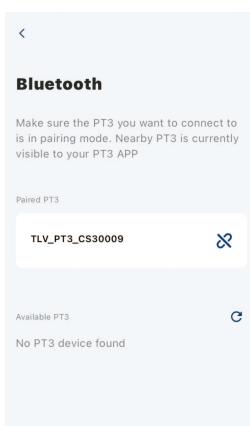
2. Tap [Bluetooth].
3. Tap to the right of the device name displayed under [Paired PT3].



4. When the confirmation message appears, tap [Disconnect].



5. The icon to the right of the device name displayed in [Paired PT3] changes to , indicating that the connection is disconnected.

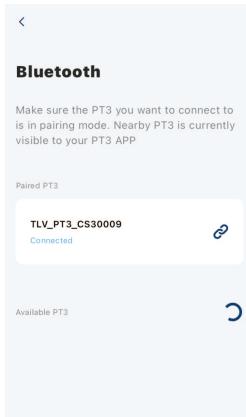


## Unpair from PT3

1. Open [Settings].



2. Tap [Bluetooth].
3. Press and hold the device name displayed under [Paired PT3].



4. Tap [Unpair].



5. When the Bluetooth connection is disconnected, "No paired PT3" is displayed under [Paired PT3], and the device name is displayed in [Available PT3].



# Send data to PT3

## For a single location

1. Display the home screen on PT3.



### Note

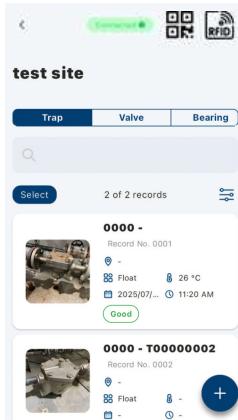
Make sure that the home screen is displayed on PT3. If not, a 'Busy error' will be displayed.

2. Open [Sites].

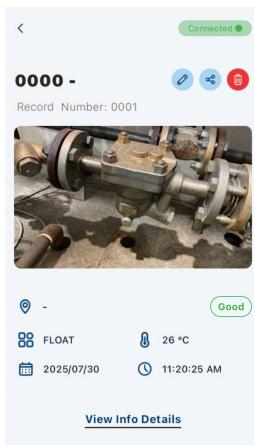


Sites

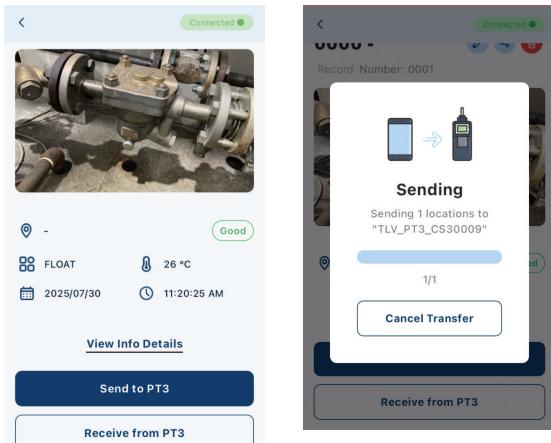
3. Tap the site name to view a list of locations.
4. Select from Trap, Valve, Bearing, and User Defined 1 to 3.



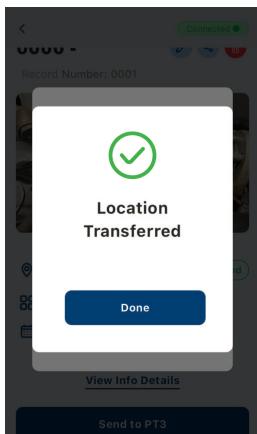
5. Tap the location to be sent to view its data.



6. Tap [Send to PT3] to send the data.



- When "Location Transferred" is displayed, tap [Done].



## For multiple locations

- Display the home screen on PT3.



### Note

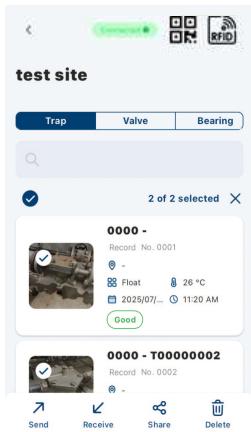
Make sure that the home screen is displayed on PT3. If not, a 'busy error' will be displayed.

- Open [Sites] while the app is connected to PT3.

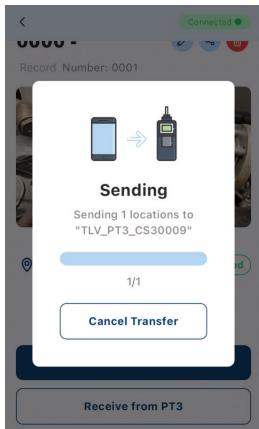


Sites

- Tap the site name to view a list of locations.
- Select from Trap, Valve, Bearing, and User Defined 1 to 3.
- Tap [Select Next]. Tap [x] to cancel the selection. Tap the circle icon under the search bar to select all locations.
- Select the location to export.



7. Tap [Send] to send the data.



8. When "Location Transferred" is displayed, tap [Done].

# Receive data from PT3

## For a single location

### To receive previous inspection data

1. Display the home screen on PT3.



#### Note

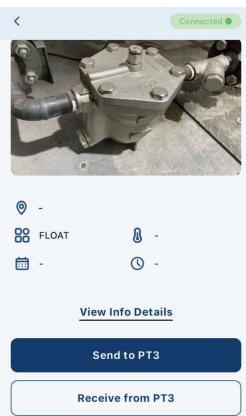
Make sure that the home screen is displayed on PT3. If not, a 'Busy error' will be displayed.

2. Open [Sites] while the app is connected to PT3.

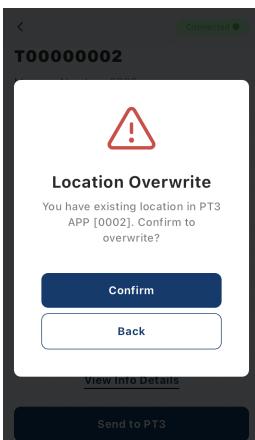


Sites

3. Tap the site name to view a list of locations.
4. Select from Trap, Valve, Bearing, and User Defined 1 to 3.
5. Tap the location to be received to view its data.
6. Tap [Receive from PT3] to receive the data.



7. When "Location Overwrite" is displayed, tap [Confirm].



8. When "Location Received" is displayed, tap [Done].
9. The data is saved and available to view on the app.

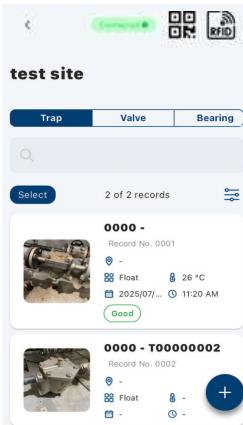
## To receive one data at a time during inspection

1. Open [Sites] while the app is connected to PT3.

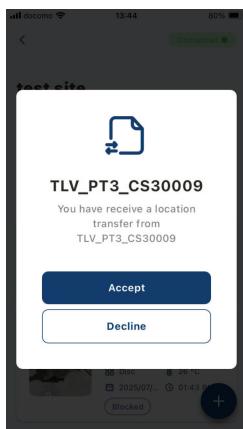


Sites

2. Tap the site name.
3. Display the home screen on PT3.



4. Inspect with PT3.
5. Once the inspection is complete, CMRecorder will automatically receive the inspection results. Tap [Accept].



6. Tap [Done].
7. Return to the step 4. and repeat inspection and receive the results.

## For multiple locations

### Select and receive a location from the list

1. Display the home screen on PT3.



#### Note

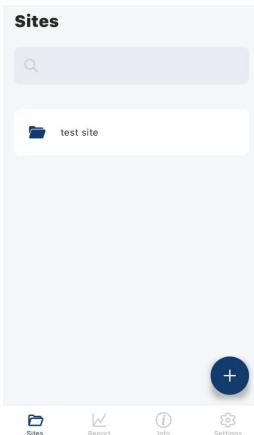
Make sure that the home screen is displayed on PT3. If not, a 'Busy error' will be displayed.

2. Open [Sites] while the app is connected to PT3.

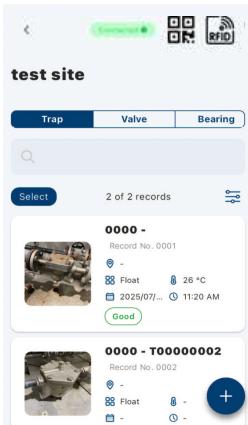


Sites

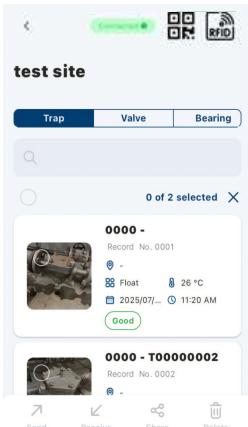
3. Tap the site name to view a list of locations.



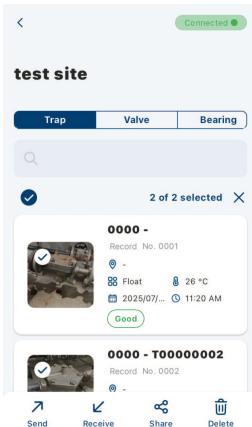
4. Select from Trap, Valve, Bearing, and User Defined 1 to 3.



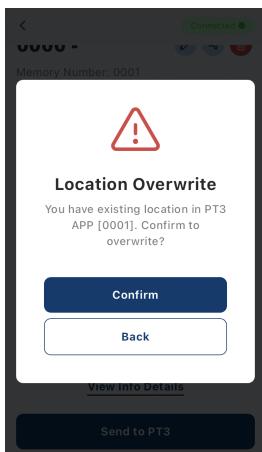
5. Tap [Select]. Tap [x] to cancel the selection. Tap the circle icon under the search bar to select all locations.



6. Select the location to import.



7. Tap [Receive] to receive the data.
8. When "Location Overwrite" is displayed, tap [Confirm].



9. When "Location Received" is displayed, tap [Done].

## To receive data (Receive All, Custom Receive)

1. Display the home screen on PT3.



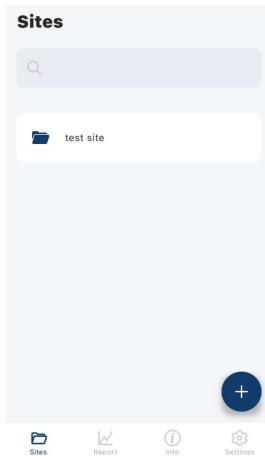
### Note

Make sure that the home screen is displayed on PT3. If not, a 'Busy error' will be displayed.

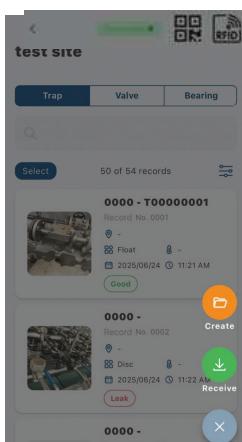
2. Open [Sites] while the app is connected to PT3.



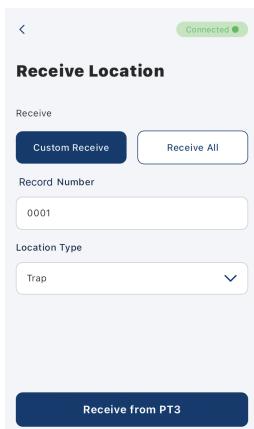
3. Tap the site name to view a list of locations.



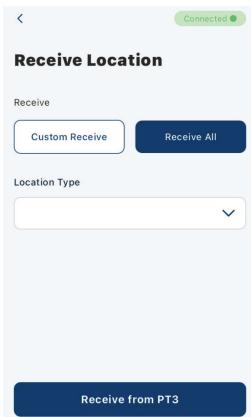
4. Tap [+].
5. Tap [Receive].



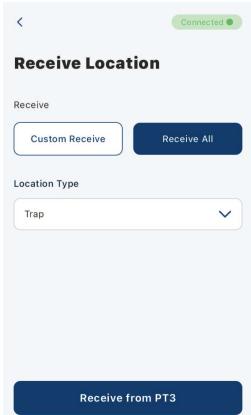
6. To receive data for specific locations, select [Custom Receive] and enter the record number(s).



7. To receive all data, select [Receive All]. [Receive All] is selected by default. When [Receive all] is selected, only unsent data (or multiple unsent data if there is more than one) is received.

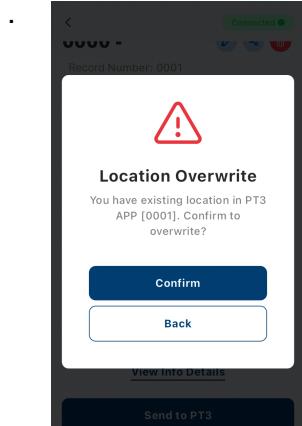


8. Select [Location Type] from Trap, Valve, Bearing, and User Defined 1 to 3.

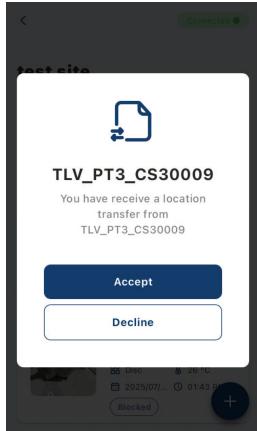


9. Tap [Receive from PT3].

10 When "Location Overwrite" is displayed, tap [Confirm].



11 Tap [Confirm].



12 When "Location Received" is displayed, tap [Done].

13 The data is saved and the screen returns to the site list.

# Perform inspection

There are two ways to perform the inspection.

- Enter inspection details in CMRecorder, send the data to PT3, inspect using the data, and then retrieve the inspection data from PT3.
- Enter data in PT3, send the data to CMRecorder, and input additional data in CMRecorder.

## Create data in CMRecorder

1. To create data and enter information in CMRecorder, refer to [Create a site \[11\]](#) and [Create a location \[12\]](#).
2. To connect PT3 and CMRecorder, refer to [Connect to PT3 \[27\]](#).
3. To send data to PT3, refer to [Send data to PT3 \[32\]](#).
4. To perform inspection with PT3, select the relevant data on PT3 and perform the inspection. Refer to the [Instruction Manual](#).
5. To receive data from PT3, refer to [Receive data from PT3 \[35\]](#).

## Create data using PT3

1. To create data and perform inspection with PT3, refer to the [Instruction Manual](#).
2. To open an existing site or create a new site in CMRecorder, refer to [Create a site \[11\]](#).
3. To connect PT3 and CMRecorder, refer to [Connect to PT3 \[27\]](#).
4. To receive data from PT3, refer to [For multiple locations \[36\]](#).
5. Enter information in CMRecorder.

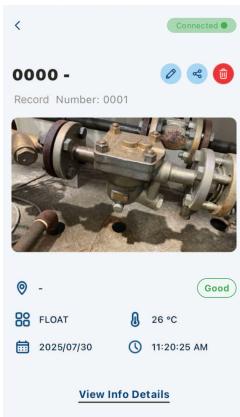
# View/edit site information

1. Open [Sites].



Sites

2. Tap the site name to view a list of locations.
3. Select from Trap, Valve, Bearing, and User Defined 1 to 3.
4. Tap the location to see an overview.

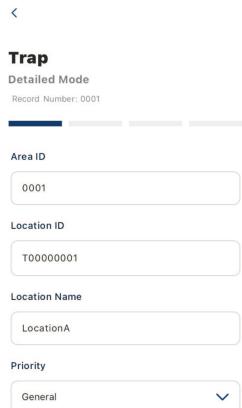


5. Tap [View Info Details] to review details.

Up to 100 records are stored in the CMRecorder database. Only the most recent 5 records can be viewed on the screen. Older records can be viewed in the report. Refer to [Generate reports \(inspection history\) \[58\]](#) for how to create reports and [Export data \[63\]](#) for exporting data.

Info Details		Connect		Connect		Connect	
Serial Number	MA1001	Orientation	Unspecified	Serial Number	MA1001	Orientation	Unspecified
Installation Date	2024/05/01	Operating Pattern	Unspecified	Installation Date	2024/05/01	Operating Pattern	Unspecified
Connection Size	20.0 mm	Condensate Recovery	Yes	Connection Size	20.0 mm	Condensate Recovery	Yes
Connection Spec	SCREW NPT	Frequency	Abandoned	Connection Spec	SCREW NPT	Frequency	Abandoned
Surface Temperature	26 °C	Model Group	SS1	Surface Temperature	26 °C	Model Group	SS1
Inspection Time	2025/07/30 01:42:48 PM	Type	Float	Inspection Time	2025/07/30 01:42:48 PM	Type	Float
GPS Coordinates	-	Quick Connector	With Strainer	GPS Coordinates	-	Quick Connector	With Strainer
Application	Heating	Bypass Valve	Open	Application	Heating	Bypass Valve	Open
Priority	Unspecified	Inlet Valve	Open	Priority	Unspecified	Inlet Valve	Open
Elevation	-	Outlet Valve	Open	Elevation	-	Outlet Valve	Open
Orientation	Unspecified	Test Result	Good	Orientation	Unspecified	Test Result	Good
Operating Pattern	Unspecified	Other Notes		Operating Pattern	Unspecified	Other Notes	

6. Tap the  icon in the top right corner of the Location Summary page or [Info Details] to open the edit screen.



The screenshot shows a mobile application interface for editing a location. At the top, it says 'Trap' and 'Detailed Mode'. Below that, 'Record Number: 0001' is displayed. There is a progress bar consisting of several small squares, with the first one filled dark blue. Below the progress bar are four input fields: 'Area ID' (containing '0001'), 'Location ID' (containing 'T00000001'), 'Location Name' (containing 'LocationA'), and 'Priority' (a dropdown menu showing 'General').

7. Edit the details.
8. Tap [Next] to go to the last page and tap [Save changes and send to PT3] or [Save changes]. [Save Changes and Send to PT3] is available only when the app is connected to PT3. Otherwise, it will be grayed out.
9. Tap [Done]. When [Create and Send to PT3] is tapped, the created location is displayed on PT3.

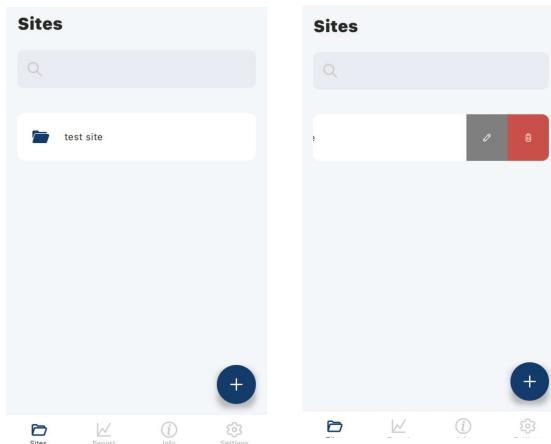
# Edit the site name

1. Open [Sites].

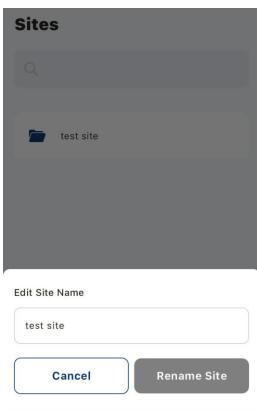


Sites

2. Swipe left on the site name to edit.



3. Tap  to open the edit screen.



4. Edit the site name and tap [Rename Site].

5. Tap [Done].

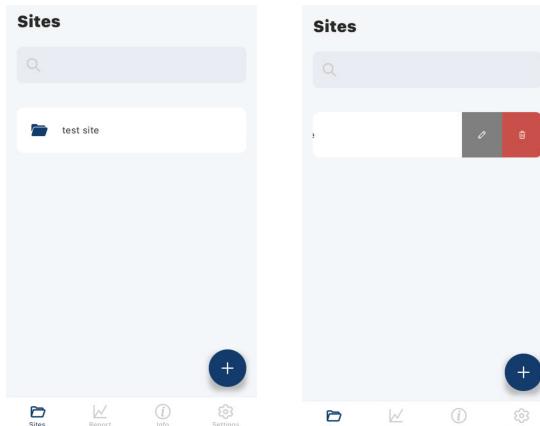
# Delete a site

1. Open [Sites].



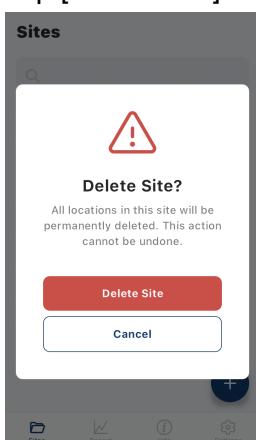
Sites

2. Swipe left on the site name to delete.



3. Tap  to open the edit screen.

4. Tap [Delete Site].



5. Tap [Done] to delete the site.

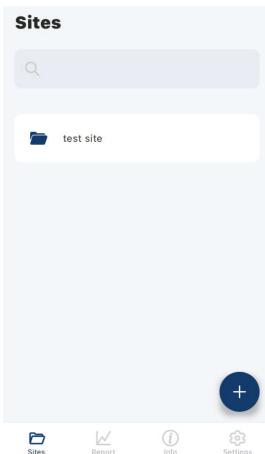
# Delete a location

## For a single location

1. Open [Sites].



2. Tap the site name to display a list of locations.



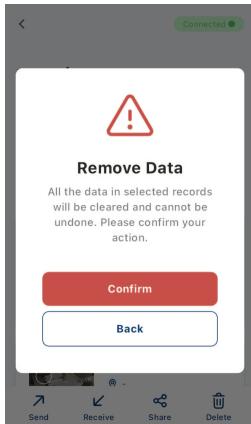
3. Select from Trap, Valve, Bearing, and User Defined 1 to 3.

4. Tap the location to be deleted.



5. Tap  in the upper right corner of the location over view page. Alternatively, tap  in the upper right corner of the [Details] page that follows tapping [View Info Details].
6. A confirmation message will appear. Tap [Confirm].

7. When "Location Deleted" is displayed, tap [Done].

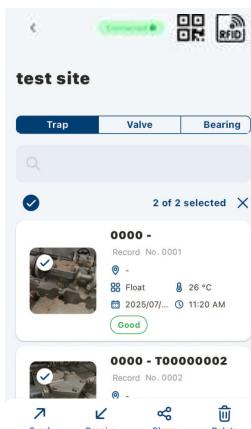


## For multiple locations

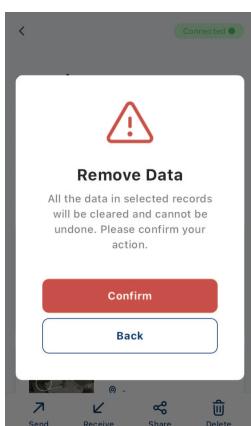
1. Open [Sites].



2. Tap the site name to display a list of locations.
3. Select from Trap, Valve, Bearing, and User Defined 1 to 3.
4. Tap [Select].
5. Select the location you want to delete. Tap [x] to cancel the selection. Tap the circle icon under the search bar to select all locations.



6. Tap [Delete].
7. A confirmation message will be displayed. Tap [Confirm].



8. The selected data will be deleted.

# Export location data to CSV

Location data can be exported as a CSV file.

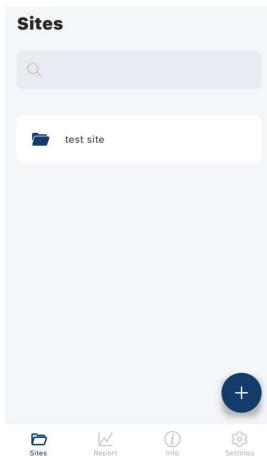
## For a single location

1. Open [Sites].

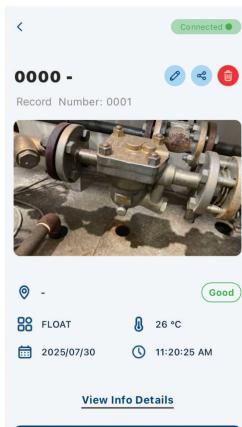


Sites

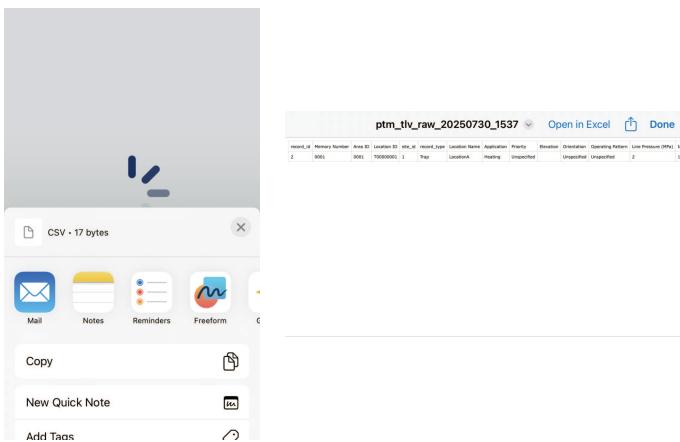
2. Tap the site name to view a list of locations.



3. Select from Trap, Valve, Bearing, and User Defined 1 to 3.
4. Tap the location.



5. Tap  in the upper right corner of the location overview page. Alternatively, tap  in the upper right corner of the [Details] page that follows tapping [View Info Details].
6. A CSV file will be created. Select apps to share or save.  
Example: When selecting "Save to files..." on iPhone.

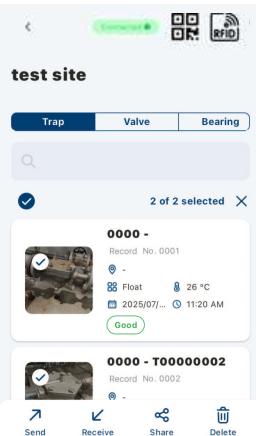


## For multiple locations

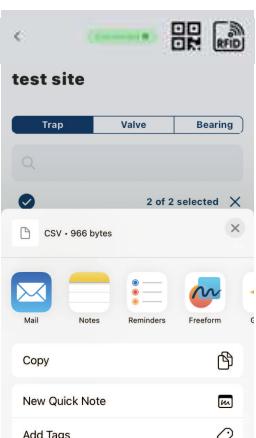
1. Open [Sites].



2. Tap the site name to view a list of locations.
3. Select from Trap, Valve, Bearing, and User Defined 1 to 3.
4. Tap [Select Next].
5. Select the location to export. Tap [x] to cancel the selection. Tap the circle icon under the search bar to select all locations.
6. Tap [Share].



7. A CSV file will be created. Select apps to share or save.



# Search (location)

Use the search bar and filters to find sites easily.

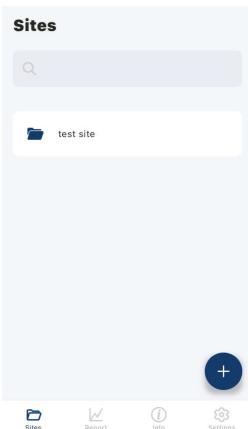
Locations can also be searched using RFID tags or QR codes. Refer to [Use RFID tags \[17\]](#) or [Use QR codes \[19\]](#) for details.

1. Open [Sites].

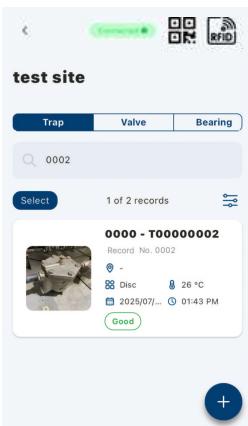


Sites

2. Tap the site name to view a list of locations.



3. Select from Trap, Valve, Bearing, and User Defined 1 to 3.
4. Enter a Record No., Area ID, Location ID, or Location Name in the search box to filter and display only the corresponding locations.



5. Tap  to select filter criteria.  
Tap [Clear Filter] to remove all check marks.

Test Result

Good

Leak/L

Blocked

Low Temp.

Not In Service

Fall ADJ-L

Leak

Leak/S

No Check

Caution

Fail ADJ-H

Heating

Tracing

Unspecified

Application

Heating

Tracing

Unspecified

Other

Utilities

Trap Type

Leak

Leak/S

No Check

Caution

Fail ADJ-H

Heating

Tracing

Unspecified

Bucket

Float

Temp.Adj

Disc

Others

Thermo

Trap Type

Float

Others

Start Date

End Date

Apply Filter

Clear Filter

6. Tap [Apply Filter] to narrow down the list.

# Generate reports (analysis and summary)

1. Open [Report].



2. Select [Site Name].

**Report**

Site Name  
Test Site

Export Type

Date Range

Generate

Report

Report

Report

Report

3. Select [Analysis and Summary] under [Export Type].

**Report**

Site Name  
Test Site

Export Type  
Analysis and Summary

Report Type

Date Range

Generate

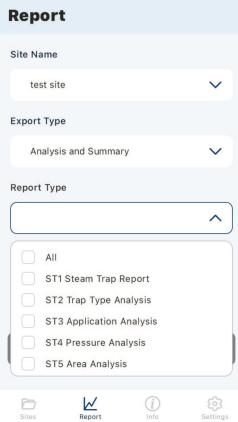
Report

Report

Report

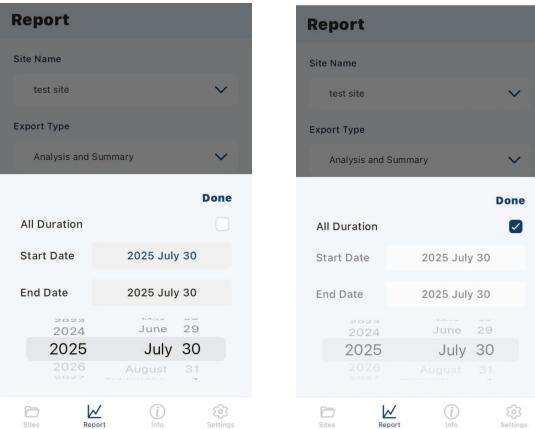
Report

4. Select [Report Type] from: All, ST1 Steam Trap Report, ST2 Trap Type Analysis, ST3 Application Analysis, ST4 Pressure Analysis, ST5 Area Analysis, Valve Report 1 Inspection Summary, Valve Report 2 Valve Damage Summary, Bearing. (Multiple selections possible)

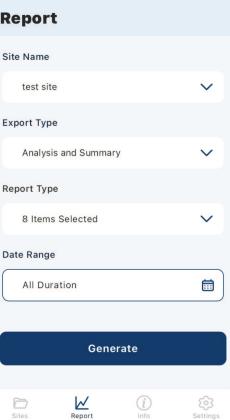


**Note**  
Checking "All" selects all pages.

5. Select [Data Range]. Only data from the selected time period will be aggregated.



6. Tap [Generate] to display the report.



7. The contents of the report are as follows:

For steam trap report: Inspection Summary Table, Reference Table, Trap type Analysis, Application Analysis

For valve report: Inspection Summary Table, Reference Table, Valve Damage Summary

For bearing report: Please download the CSV file.

### Report

#### Steam Trap Report

Inspection Summary Table

Test Results	Quantity	Rate
Good	38	69.1%
Leak	4	7.3%
Leak/L	3	5.5%
Leak/S	1	1.8%
Blocked	4	7.3%
Low Temp.	4	7.3%
Caution	1	1.8%
Fail ADJ-H	0	0.0%

Reference Table

Test Result	PT3 Category
Leak	ST Leak
Leak/L	ST Leak

Page 1/8 >

**Export Report**

### Report

#### Steam Trap Report

Trap type Analysis

Type	Leak	Cold	Good
Bucket	4	1	10
Disc	3	2	9
Float	0	3	13
Others	2	0	4
Temp.Adj	0	1	0
Thermo	0	1	2

■ Leak ■ Cold ■ Good

Caution ST Leak

Fail ADJ-H ST Leak

Fail ADJ-L ST Cold

Blocked ST Cold

Not In Service Inconclusive

Low Temp. ST Cold

Good Good

No Check Inconclusive

Total Not in Operation 1 100.0%

No Check 0 0.0%

Not In Service 1 100.0%

Total in Operation 55 100.0%

Fail ADJ-H 0 0.0%

Test Results

Page 2/8 >

**Export Report**

Test Result

Page 3/8 >

**Export Report**

Application

Page 4/8 >

**Export Report**

Application

Page 5/8 >

**Export Report**

Pressure (MPa)

<1.65	7	8	37
1.65 - 5.84	2	0	1
>5.84	0	0	0

Pressure Range

1.65 to 5.84

**Reset**

Pressure (MPa)

Page 6/8 >

**Export Report**

Area ID

0000	8	7	36
0001	1	0	2
abcd	0	1	0

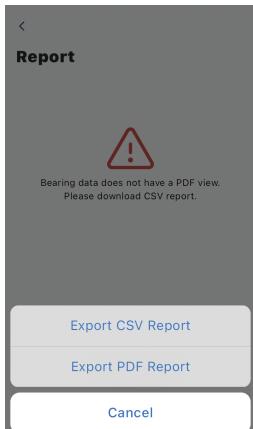
There's no locations found.

Area ID

Page 7/8 >

**Export Report**

8. Tap [Export Report] to download the report in CSV or PDF format.



# Generate reports (inspection history)

1. Open [Report].



2. Select [Site Name].

**Report**

Site Name  
Test Site

Export Type

Date Range

Generate

Actions: Sites, Report, Info, Settings

3. Select [Inspection History] under [Export Type].

**Report**

Site Name  
Test Site

Export Type  
Inspection History

Location Type

Inspection History Type  
Type 1

Date Range

Actions: Sites, Report, Info, Settings

4. Select [Location Type] from: All, Bearing, User defined 1, User defined 2, User defined 3. Multiple items can be selected.

**Report**

Site Name  
TLV

Export Type  
Inspection History

Location Type  
4 Items Selected

All  
 Bearing  
 User defined 1  
 User defined 2  
 User defined 3

Actions: Sites, Report, Info, Settings

5. Select [Inspection History Type]. For Type 1, each line contains one inspection result.

ptm\_tlv\_raw\_20250526\_1843.csv [Open in Excel](#)

Record Number	Area ID	Location ID	site_id	record_type	Location Name	Average Value	Peak Value
1	0		2	Beining		74	92
1	0		2	Beining		1	80
1	0		2	Beining		1	81
1	0		2	Beining		1	85
2	0		2	Beining		65	85
2	0		2	Beining		1	85
2	0		2	Beining		1	83
2	0		2	Beining		1	85
3	0		2	Beining		67	91
3	0		2	Beining		67	86
3	0		2	Beining		1	1
4	0		2	Beining		66	85

Select [Inspection History Type]. For Type 2, each line contains multiple inspection results.

↓

Average Value 1	Peak Value 1	CF Value 1	Average Value (Ref) 1	Peak Value (Ref) 1	CF Value (Ref) 1	Bearing Test Result 1	Inspection Time 1	Average Value 2	Peak Value
74	92	18					2025/05/26 06:43:07	1	80
65	85	20					2025/05/26 06:43:24	1	85
67	91	24					2025/05/26 06:43:39	67	86
66	85	19					2025/05/26 06:42:22	67	86

↓

**Report**

TLV

Export Type

Inspection History

Location Type

4 Items Selected

Inspection History Type

Type 1

Type 2

Generate

Sites Report Info Settings

6. Select the date range.  
Check All Duration to set the entire period of time.

**Report**

Export Type

Inspection History

Location Type

4 Items Selected

**Done**

All Duration

Start Date 2025 July 31

End Date 2025 July 31

2024 June 30  
2025 July 31  
2026 August 1

Sites Report Info Settings

**Done**

All Duration

Start Date 2025 July 31

End Date 2025 July 31

2024 June 30  
2025 July 31  
2026 August 1

Sites Report Info Settings

7. Tap [Generate] to generate report.

Report

Export Type: TLV

Location Type: 4 Items Selected

Inspection History Type: Type 1

Date Range: All Duration

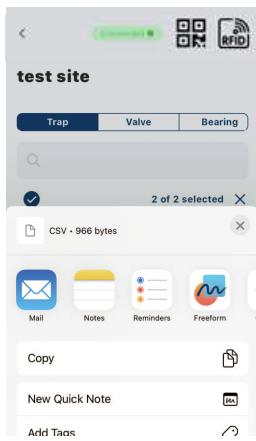
Generate

Sites Report Info Settings

Raw Report Generating

Wait a moment while we generating raw report.

8. Select an appropriate location for saving or sharing, and save the file.



# Export QR codes

1. Open [Report].



2. Select [Site Name].

**Report**

Site Name  
Test Site

Export Type

Date Range

Generate

File Report Info Settings

3. Select [QR Code] for [Export Type].

**Report**

Site Name  
Test Site

Export Type  
QR Code

Location Type  
Trap

Range

Generate

File Report Info Settings

4. Select [Location Type]. Select from Trap, Valve, Bearing, User defined 1 to 3.

**Report**

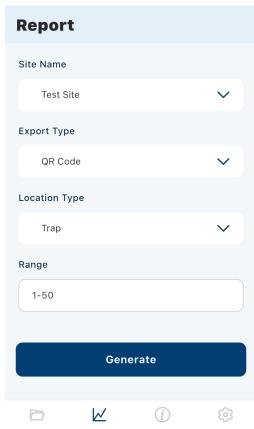
Site Name  
Test Site

Export Type  
QR Code

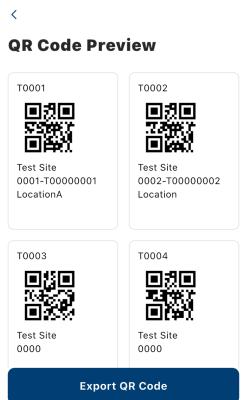
Trap  
Valve  
Bearing  
User defined 1  
User defined 2  
User defined 3

File Report Info Settings

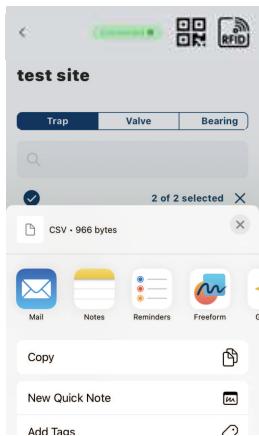
5. Enter [Range]. The range of record numbers for the locations where QR codes are required can be entered.



6. Tap [Generate].
7. Tap [Export QR Code].



8. Select the location to export. Size of the QR code may be adjusted with the printer.



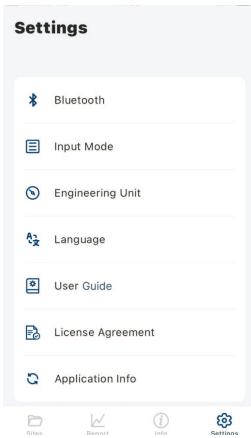
# Export data

1. Open [Settings].

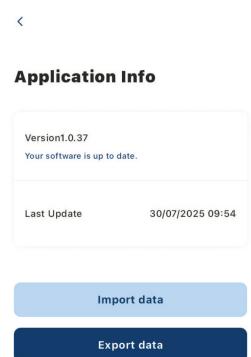


Settings

2. Tap [Application Info].



3. Tap [Export Data].



4. A DB file (database file for CMRecorder) is created. Select an app to share or save the file. When the DB file is imported to CMRecorder on another device, the same data can be viewed on that device, and the data can be used for inspections on that device.



## Note

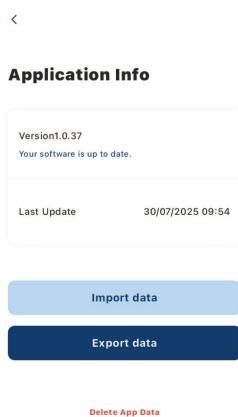
DB files cannot be opened and viewed directly. To view the data, export location data as a CSV file. Refer to [Export location data to CSV \[50\]](#) for details.

# Import data

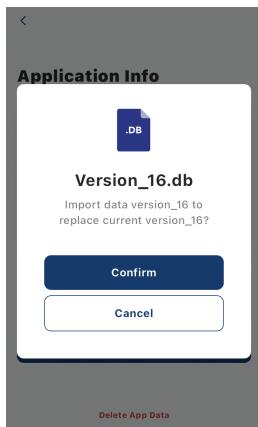
1. Open [Settings].



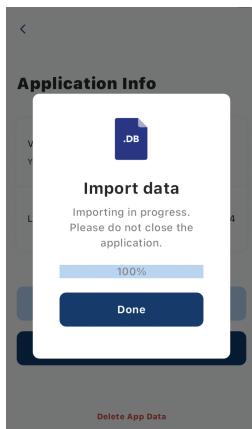
2. Tap [Application Info].
3. Tap [Import Data].



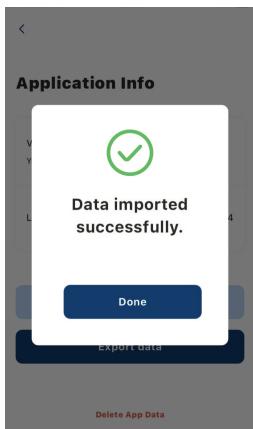
4. Select the DB file (database file for CMRecorder).
5. When the confirmation message is displayed, tap [Confirm].



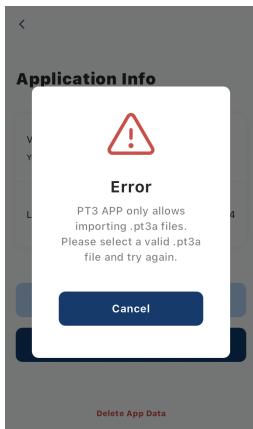
6. When "Import completed" is displayed, tap [Done].



7. When "Import successful" is displayed, tap [Done].



8. If the file format is different, an error message is displayed and the import will fail.



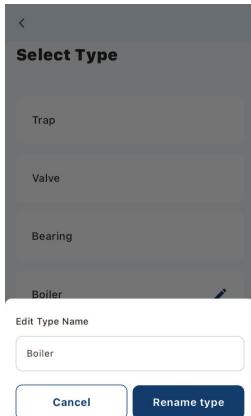
# Set user defined fields

The type names for User Defined 1 to 3 can be renamed to better describe their contents.

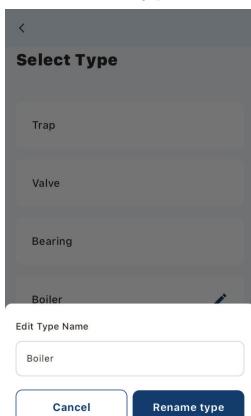
1. Open [Settings].



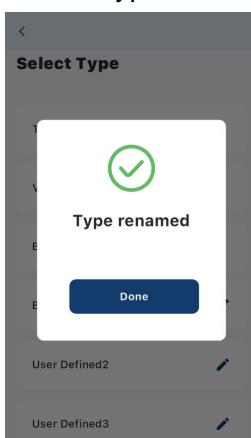
2. Tap [Input mode].
3. Tap next to the User Defined to be changed.



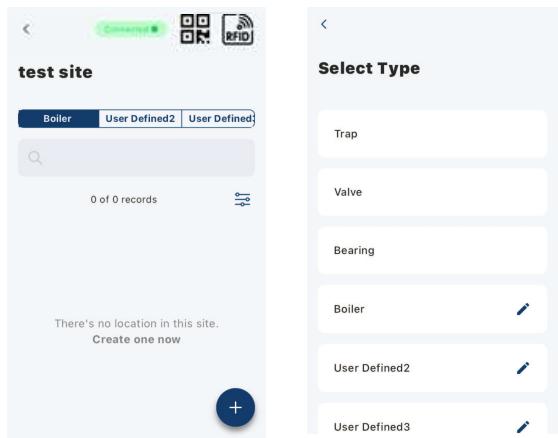
4. Enter the type name in the [Edit Type Name] field and tap [Rename type].



5. When "Type renamed" is displayed, tap [Done].



6. Changes are saved throughout the application.

**Note**

The site name will be changed when the app is connected to PT3.

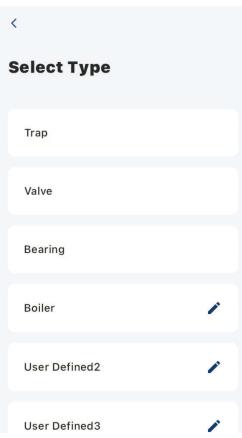
# Change the input mode

The input mode for creating a new site can be switched for each location type (Trap, Valve, Bearing, User Defined 1 to 3). There are two input modes, Quick Mode and Detailed Mode.

1. Open [Settings].



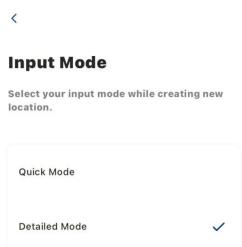
2. Tap [Input mode].
3. Select [Type] from the following options: Trap, Valve, Bearing, User Defined 1 to 3



4. Select the input mode from the following options.

Quick Mode: Used to reduce the input fields. Input fields can be selected. Select the input mode.

Detailed Mode: Displays all the input fields.



5. When Quick Mode is selected, input fields can be added by tapping [Input Fields].



### Input Mode

Select your input mode while creating new location.

Quick Mode

Input Fields Add or remove input fields for quick mode.

Detailed Mode

**Save Changes**

6. To add an input field, tap [Add Input Field] on the [Input Fields] screen to select the input field.

Model

Set Temperature

Test Result

Inspection Time

Picture

Other Notes

Add Input Field

**Save Changes**

7. Tap [x] to delete input fields.

Test Result

Inspection Time

Picture

Other Notes

Priority

Elevation

Add Input Field

**Save Changes**

8. Tap [Save Changes] on the input field screen.
9. Tap [Save Changes] on the [Input Mode] screen.

<

### Input Mode

Select your input mode while creating new location.

Quick Mode 

Input Fields  Add or remove input fields for quick mode.

Detailed Mode

**Save Changes**

10 Changes are saved and the screen returns to [Settings].

# Change engineering units

Engineering units can be changed.



## Note

Units cannot be changed while the app is connected to PT3 via Bluetooth. When the unit is changed, the stored pressure and temperature values are converted to the new units. When connecting with PT3, the pressure units of the PT3 and site open on CMRecorder must match.

1. Open [Settings].



## Settings

2. Tap [Engineering Unit].

3. Select the temperature unit from the following: °C, °F

Select the pressure unit from the following: MPa, bar, kgf/cm<sup>2</sup>, psi

<

### Engineering Unit

#### Temperature Unit

°C	✓
°F	

#### Pressure Unit

MPa	✓
bar	
kg/cm <sup>2</sup>	

Save Changes



## Note

Once the temperature unit °C is selected, the pressure unit psi will be grayed out and cannot be selected. Once the temperature unit °F is selected, the pressure unit psi is automatically selected, and other pressure units are grayed out and cannot be selected.

4. Tap [Save Changes].

5. Changes are saved and the screen returns to [Settings].

# Change the app language

Language used for the app can be changed.

1. Open [Settings].



2. Tap [Language].
3. Select the language from English, Français, Deutsch, Español, Português, 日本語, 한국어, and 中文.
4. Changes are saved and the screen returns to [Settings].

## View the user guide

1. Open [Settings].



Settings

2. Tap [User Guide].
3. The user guide will be displayed.

# Confirm license agreement

1. Open [Settings].



2. Tap [Application Info].
3. Privacy policy for CMRecorder will be displayed.



TLV CO., LTD. (hereinafter referred to as "the Company") has established the following guidelines as the privacy policy (hereinafter referred to as "the Policy") to properly handle personal information based on the Policy about handling the personal information of users (hereinafter referred to as "the User") of the PT3 APP (hereinafter referred to as "the App") provided by the Company.

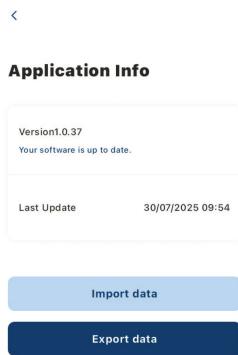
**Article 1. Personal Information**  
The term "personal information" as defined by the Act on the Protection of Personal Information (Act No. 57 of 2003, hereinafter referred to as "Personal Information Protection Law") shall mean information about a living individual which can identify a specific individual by name, date of birth, and other information, including information that enables the identification of other information and will thereby enable

# Confirm the app version

1. Open [Settings].



2. Tap [Application Info].
3. The app version and date of the last update will be displayed.



4. Tap [<] to return to the [Settings] screen.

# Delete app data

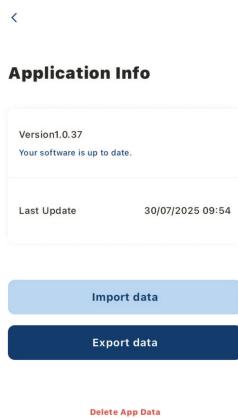
All data, including Sites and locations and Report will be permanently deleted.

1. Open [Settings].

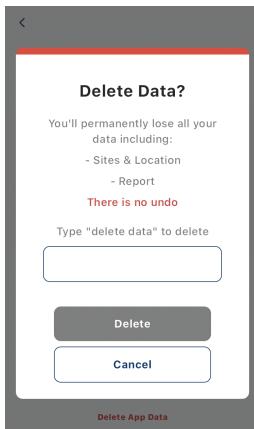


Settings

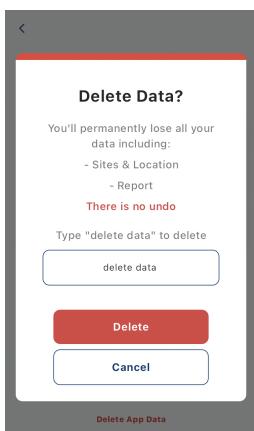
2. Tap [Application Info].
3. Tap [Delete App Data].



4. "Delete Data?" appears on the screen.



5. Enter "Delete data" in the input field. Type "delete data" to activate the [Delete] button.



6. Tap [Delete] to delete the data.

7. Tap [Done].
8. Return to the [Application Info] screen.

# FAQ

## **Q. Cannot connect to PT3**

- The app cannot be connected to PT3 unless Bluetooth is enabled on PT3. Make sure that PT3 is ON and Bluetooth is enabled.
- PT3 and the app cannot be connected when units do not match. Please change the units and try again.

## **Q. Unable to change units**

Units cannot be changed while the app is connected to PT3. Please disconnect and try again.

## **Q. Cannot open the exported DB file**

DB files cannot be opened and viewed. To view the file, export data as a CSV file. See also [Export location data to CSV \[50\]](#).

## **Q. 'Busy error' is displayed and data cannot be sent or received to PT3**

Display the home screen on PT3. Make sure that the home screen is displayed on PT3. If not, a 'Busy error' will be displayed.