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Manufacturer

TLV CO., LTD.

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is approved by LRQA Ltd. to ISO 9001/14001



CMRecorder User Guide

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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.

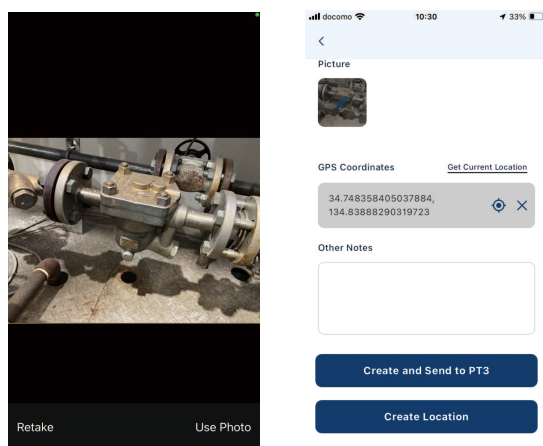
1. Enter and save location information

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.

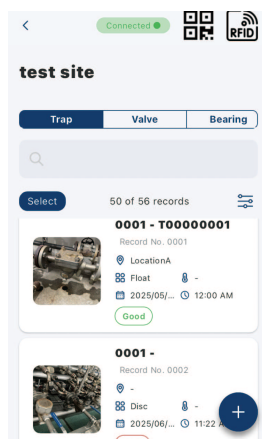
A site is a file that stores the inspection results. Inspection data from multiple locations can be stored.

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.



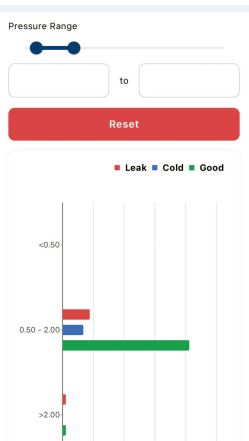
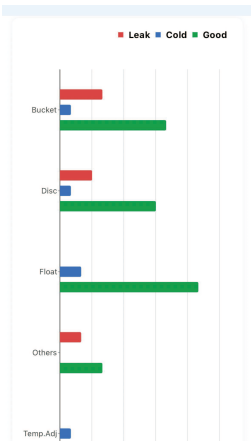
3. Create a report
- Report can be created from the information entered by the user and inspection results.

Report

Steam Trap Report

Inspection Summary Table

Test Results	Quantity	Rate
Good	38	71.7%
Leak	4	7.5%
Leak/L	3	5.7%
Leak/S	1	1.9%
Blocked	2	3.8%
Low Temp.	4	7.5%
Caution	1	1.9%
Fail ADJ-H	0	0.0%
Fail ADJ-L	0	0.0%
Total in Operation	53	100.0%



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].

<

TLV

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

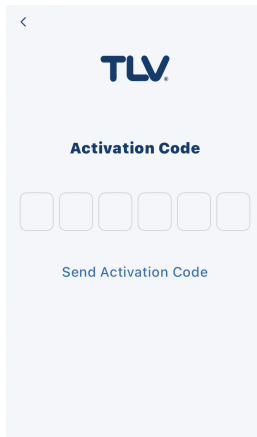
Last Name

Email

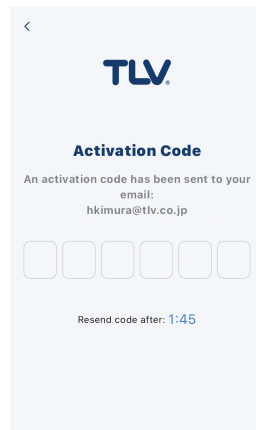
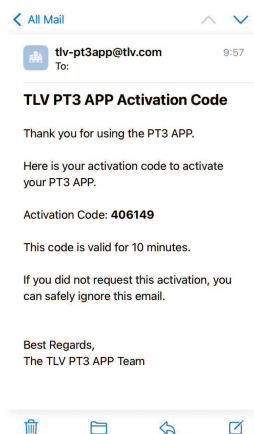
Company Name

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.



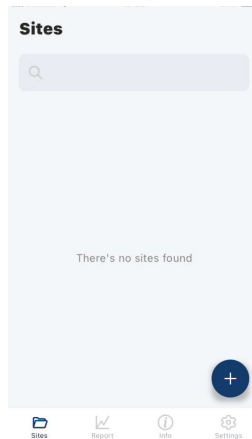
Menu overview

CMRecorder has four main menu items.



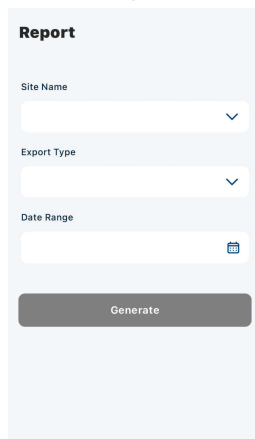
1. Sites

Create, view, and edit site and location information.



2. Report

Create reports based on inspection results.



3. Info

View information related to steam.



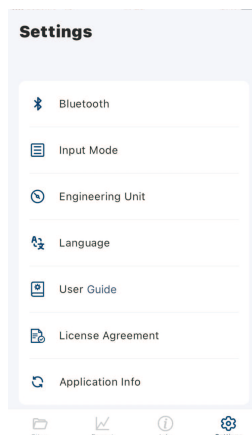
Note

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



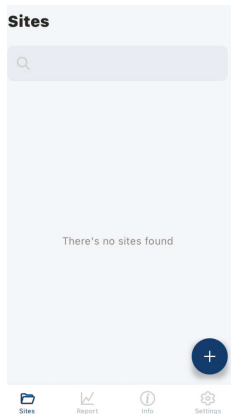
Create a site

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

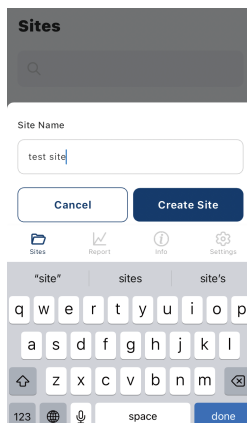
1. Open [Sites].



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

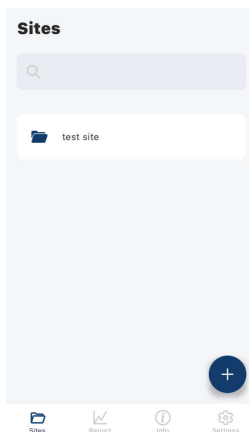
A single site (file) can store up to 3,000 locations each for traps, valves, bearings, and user defined 1 to 3, for a total of 18,000 locations.

Steam trap inspection

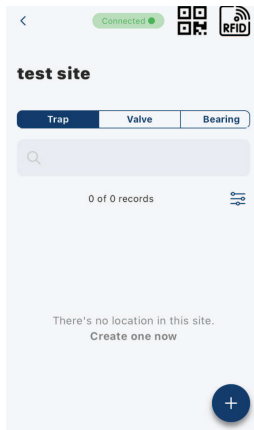
1. Open [Sites].



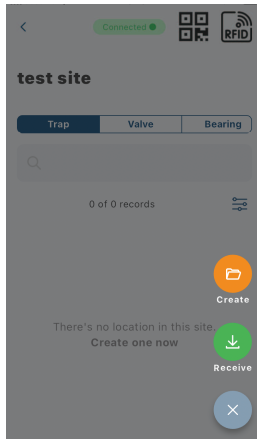
2. Tap the name of the site to create a location.



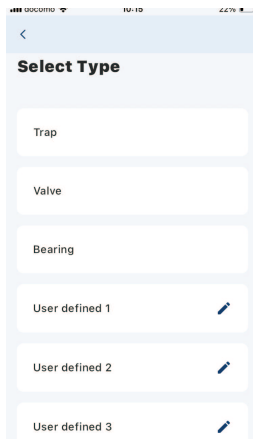
3. Tap [+].



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.

A screenshot of a 'Trap' form in 'Detailed Mode'. It shows a progress bar at the top with the first step completed. The form contains the following fields: 'Area ID' with the value '0001', 'Location ID' with the value 'T00000001', 'Location Name' with the value 'LocationA', and 'Priority' with a dropdown menu set to 'General'. There is an RFID icon in the top right corner of the form area.

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].



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].



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].



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.

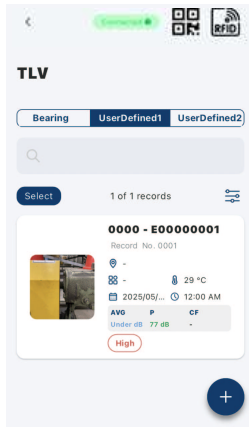
7. After all required fields are entered or selected, tap [Next] to proceed to the next screen.
To take a photo, tap the camera icon. Take a photo or select an image from your photo library. Place a red marker on the photo to indicate the target area.
8. After all required fields are entered or selected, 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.

<

Trap
Detailed Mode
Record Number: 0001

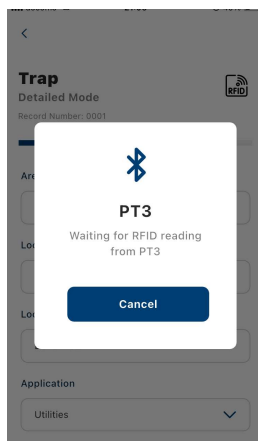
Area ID
0001

Location ID
T00000001

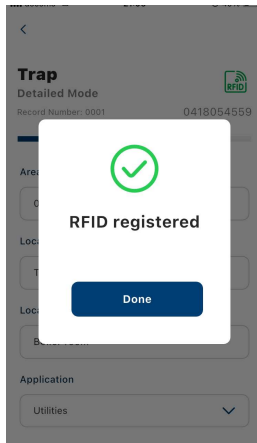
Location Name
LocationA

Priority
General

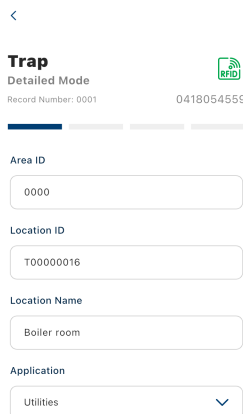
2. Scan the RFID tag with the instrument.



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

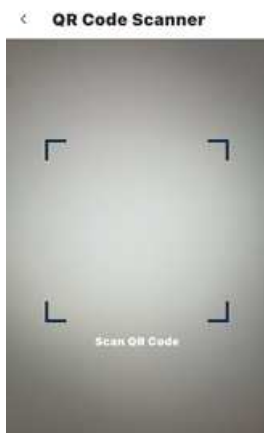
Location information can be retrieved using QR codes for traps, valves, bearings, and User Defined 1 to 3.

**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 ⁰¹ , 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 Instruction Manual 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). <div>  Note To be added in a future update. </div>
	Model		Enter the steam trap model. (e.g. SS1NH-21)
	Set Temperature ⁰²		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 ⁰³ , 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 inlet 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/手動から自動的に入力されます。 <div>  Note PT3 で行った作動判定のみ【自動】となります。 </div>
	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]. <div>  Note Make sure that location services are enabled on your mobile device. </div>

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

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

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

⁰³N/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/手動から自動的に入力されます。 <div>  Note PT3 で行った作動判定のみ【自動】となります。 </div>
	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]. <div>  Note Make sure that location services are enabled on your mobile device. </div>
	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. <div>  Note 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.
	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]. <div>  Note Make sure that location services are enabled on your mobile device. </div>
	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		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. 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.
	Location Name		Enter a description of the location of the equipment. Up to 100 characters can be entered. Example: Damaged grating on 2nd floor of route no. 10
	Application Name		Enter the name of the device (application), etc.
	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 equipment is installed. Can be used to prioritize replacements. 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 equipment is installed. Select from Angle, Horizontal, Vertical, Inclination, Parallel, and Unspecified.
	Operating Hours		Number of hours in operation. 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.
	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		Enter the pressure (MPa, bar, kgf/cm ² , psi) at the first point to be measured. 0 to 8 [MPa], 0 to 80 [bar], 0 to 80 [kgf/cm ²], 0 to 1160 [psi]
	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		Location of the valve. Tap [Get Current Location]. <div>  Note 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>  Note 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

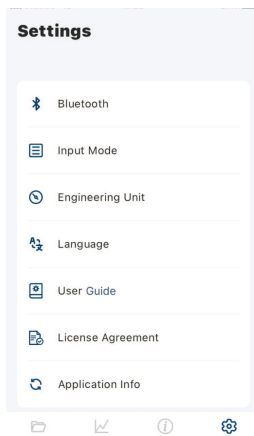
PT3 communicates via Bluetooth.

Establish a new connection (to an unpaired PT3)

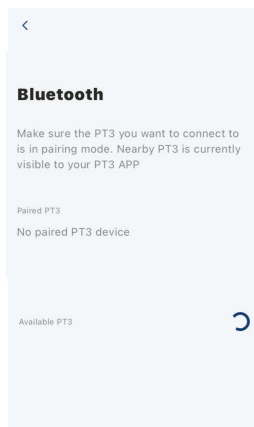
1. Make sure Bluetooth is enabled on PT3.
2. Open [Settings].



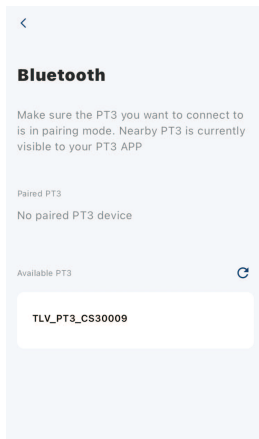
3. Tap [Bluetooth].



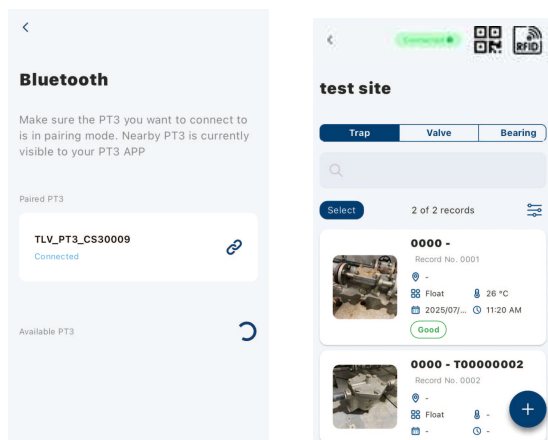
4. The Bluetooth setting screen opens, and the app searches for nearby PT3 devices available to connect.



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



- 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).




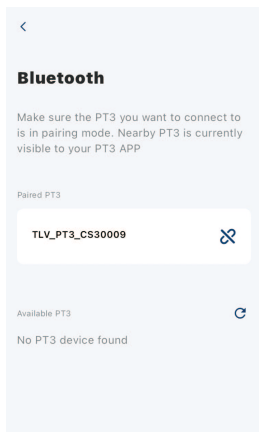
Connect to a paired PT3

Make sure Bluetooth is enabled on PT3.

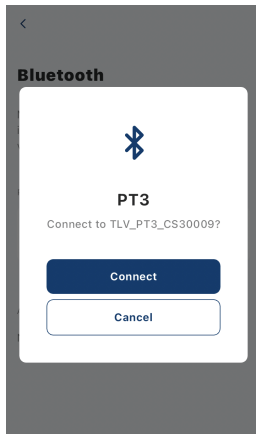
- Open [Settings].




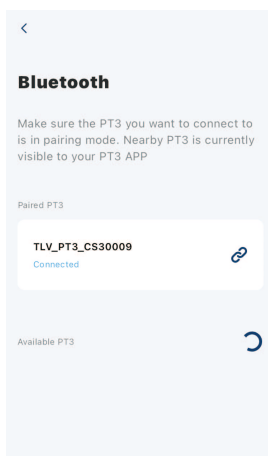
- Tap [Bluetooth].
- Tap  to the right of the device name displayed under [Paired PT3].



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

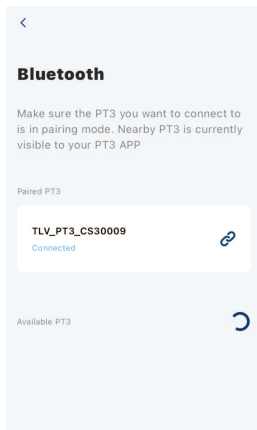
Disconnect from PT3 (without cancelling pairing)

1. Open [Settings].

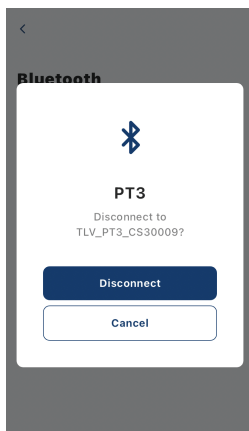



2. Tap [Bluetooth].

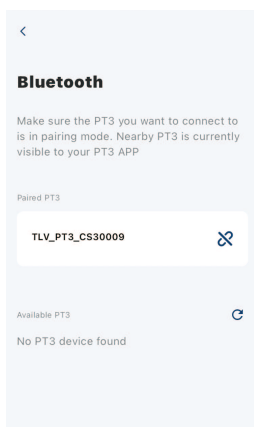
3. Tap  to the right of the device name displayed under [Paired PT3].



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.

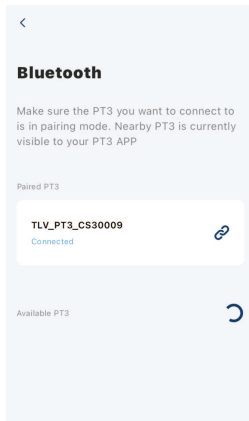


Unpair from PT3

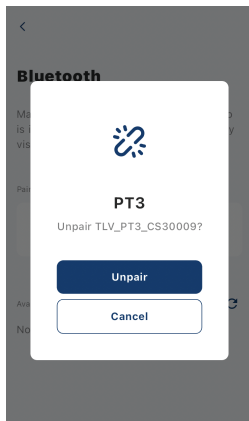
1. Open [Settings].



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.



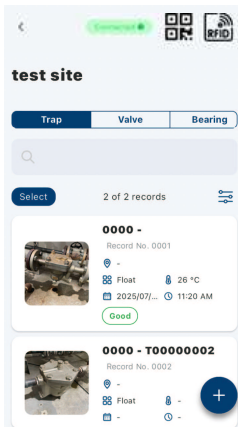
Note

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

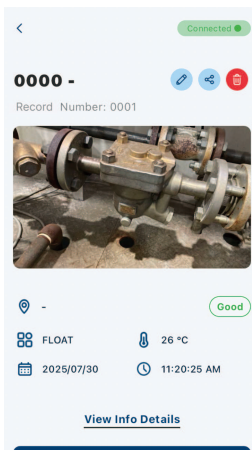
2. Open [Sites].



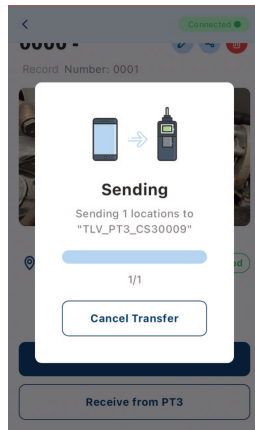
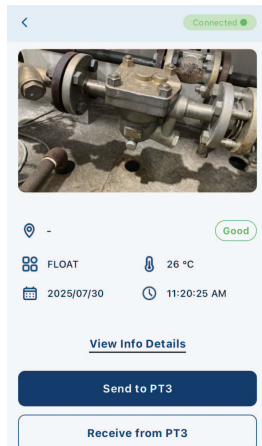
3. Tap the site name to view a list of locations.
4. Select from Trap, Valve, Bearing, and User Defined 1 to 3.



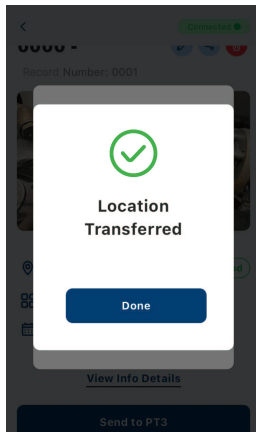
5. Tap the location to be sent to view its data.



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



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



For multiple locations

1. Display the home screen on PT3.



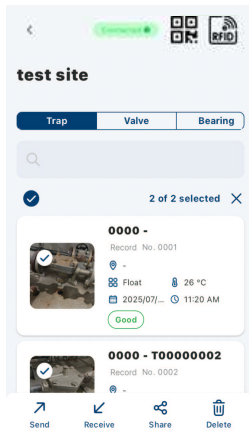
Note

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

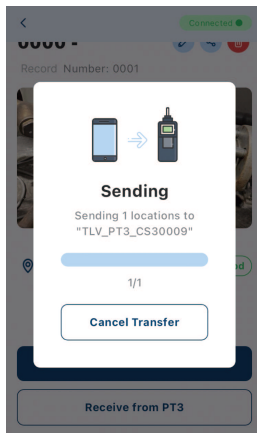
2. Open [Sites] while the app is connected to PT3.



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



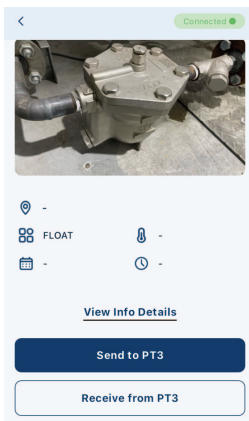
Note

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

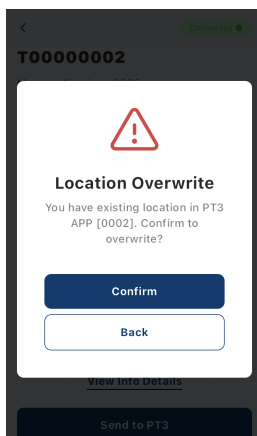
2. Open [Sites] while the app is connected to PT3.



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].



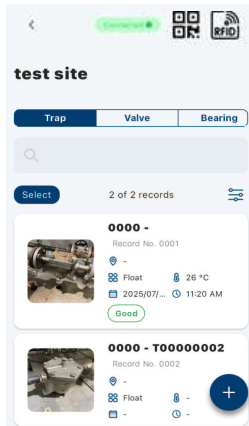
8. When "Location Received" is displayed, tap [Done].
9. The data is saved and available to view on the app.

To receive one data at a time during inspection

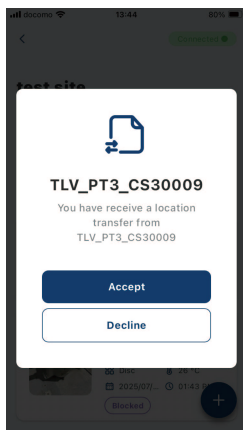
1. Open [Sites] while the app is connected to PT3.



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.



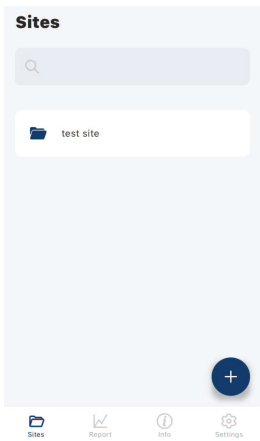
Note

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

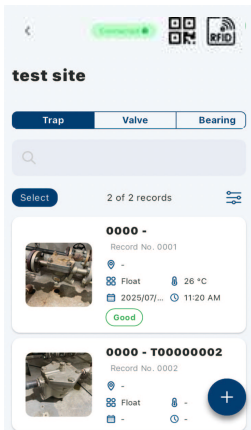
2. Open [Sites] while the app is connected to PT3.



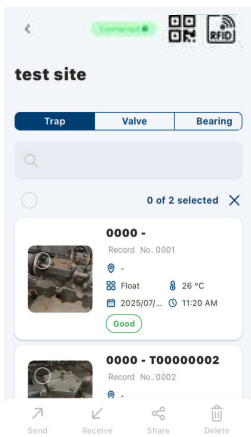
3. Tap the site name to view a list of locations.



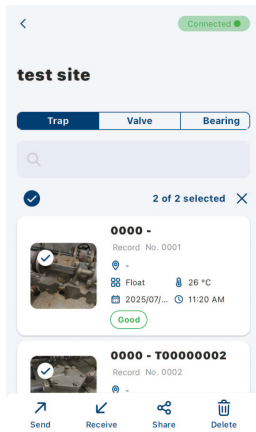
4. Select from Trap, Valve, Bearing, and User Defined 1 to 3.



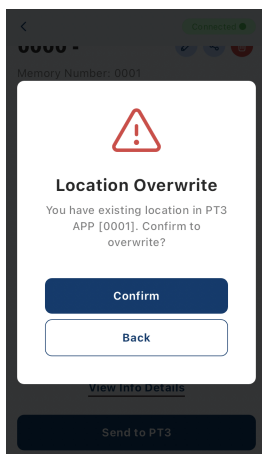
5. Tap [Select]. Tap [x] to cancel the selection. Tap the circle icon under the search bar to select all locations.



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.



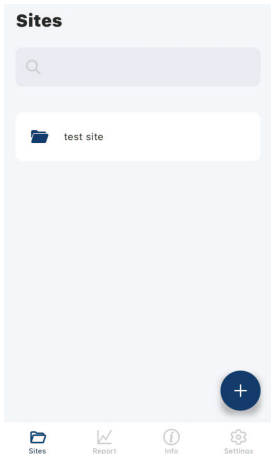
Note

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.

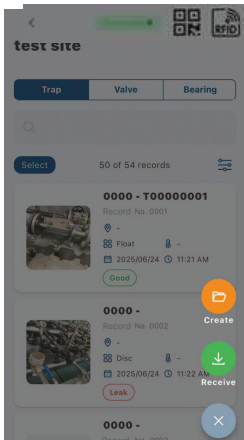


3. Tap the site name to view a list of locations.

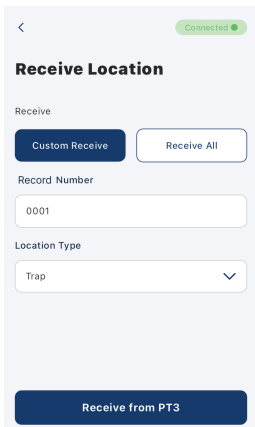


4. Tap [+].

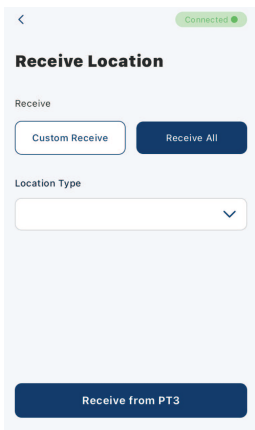
5. Tap [Receive].



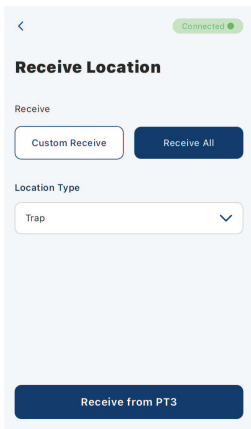
6. To receive data for specific locations, select [Custom Receive] and enter the record number(s).



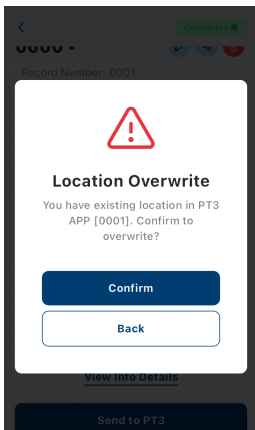
7. To receive all data, select [Receive All]. [Receive All] is selected by default. When [Receive all] is selected, only unsent data (or multiple unsent data if there is more than one) is received.



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

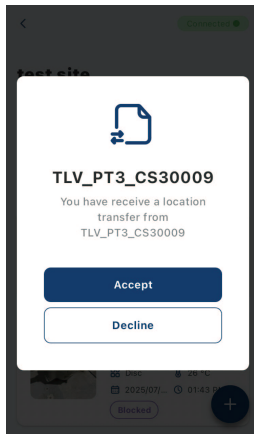


9. Tap [Receive from PT3].
- 10 When "Location Overwrite" is displayed, tap [Confirm].



11 Tap [Confirm].

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

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

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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

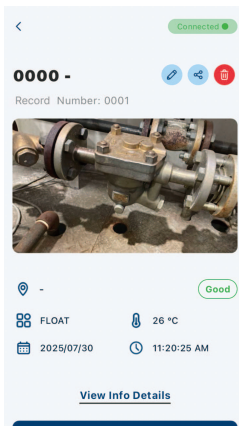
1. To create data and perform inspection with PT3, refer to to the [Instruction Manual](#).
2. To open an existing site or create a new site in CMRecorder, refer to [Create a site \[11\]](#).
3. To connect PT3 and CMRecorder, refer to [Connect to PT3 \[27\]](#).
4. To receive data from PT3, refer to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

View/edit site information

1. Open [Sites].



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.

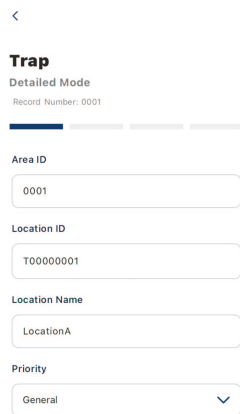
Info Details	
Area ID	0000
Location ID	T00000001
Location Name	Location A
Record Number	0001
Line Pressure	2 MPa
Inlet Pressure	1MPa
Back Pressure	2MPa
Operating Hours	8 Hour(s)
Operating Days	240 Day(s)
Model	Record Number

Serial Number	MA1001
Installation Date	2024/05/01
Connection Size	20.0 mm
Connection Spec	SCREW NPT
Surface Temperature	26 °C
Inspection Time	2025/07/30 01:42:48 PM
GPS Coordinates	-
Application	Heating
Priority	Unspecified
Elevation	-
Orientation	Unspecified
Operating Pattern	Unspecified

Orientation	Unspecified
Operating Pattern	Unspecified
Condensate Recovery	Yes
Frequency	Abandoned
Model Group	SS1
Type	Float
Quick Connector	With Strainer
Bypass Valve	Open
Inlet Valve	Open
Outlet Valve	Open
Test Result	Good
Other Notes	

Serial Number	MA1001
Installation Date	2024/05/01
Connection Size	20.0 mm
Connection Spec	SCREW NPT
Surface Temperature	26 °C
Inspection Time	2025/07/30 01:42:48 PM
GPS Coordinates	-
Application	Heating
Priority	Unspecified
Elevation	-
Orientation	Unspecified
Operating Pattern	Unspecified

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



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Trap
Detailed Mode
Record Number: 0001

Area ID
0001

Location ID
T00000001

Location Name
LocationA

Priority
General

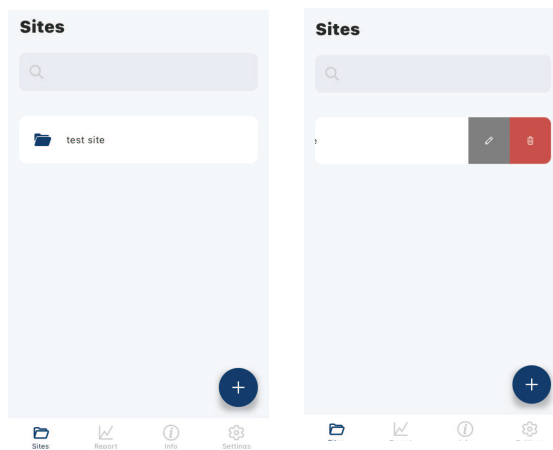
7. Edit the details.
8. Tap [Next] to go to the last page and tap [Save changes and send to PT3] or [Save changes]. [Save Changes and Send to PT3] is available only when the app is connected to PT3. Otherwise, it will be grayed out.
9. Tap [Done]. When [Create and Send to PT3] is tapped, the created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

Edit the site name

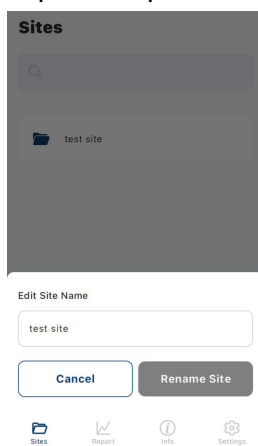
1. Open [Sites].



2. Swipe left on the site name to edit.



3. Tap [Edit] to open the edit screen.



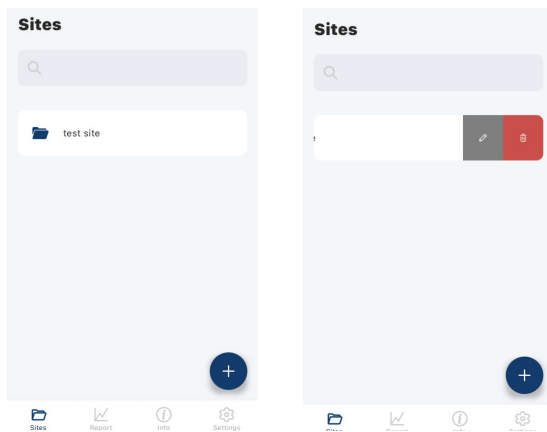
4. Edit the site name and tap [Rename Site].
5. Tap [Done].


Delete a site

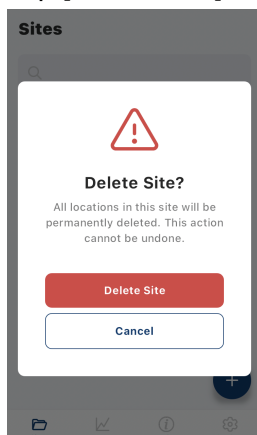
1. Open [Sites].



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.

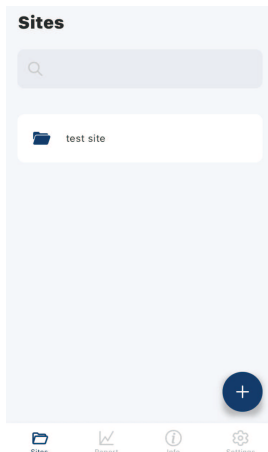
Delete a location

For a single location

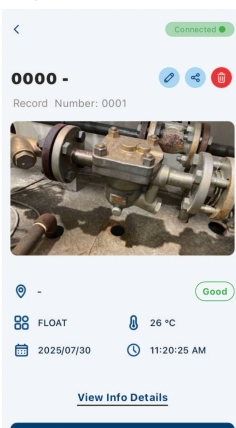
1. Open [Sites].





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

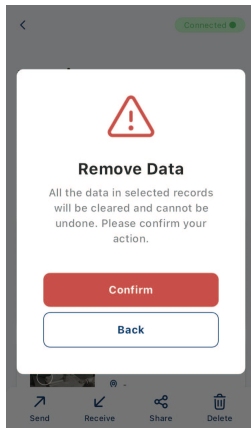


3. Select from Trap, Valve, Bearing, and User Defined 1 to 3.
4. Tap the location to be deleted.



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].

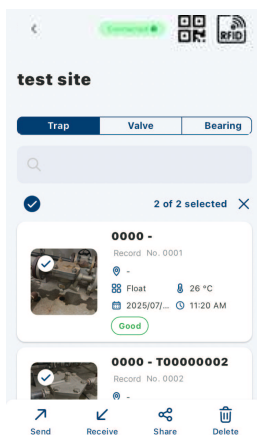


For multiple locations

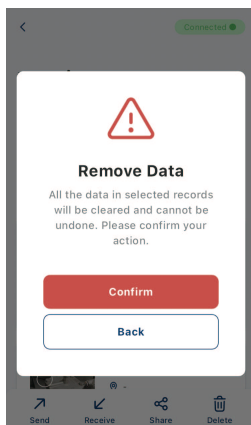
1. Open [Sites].



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

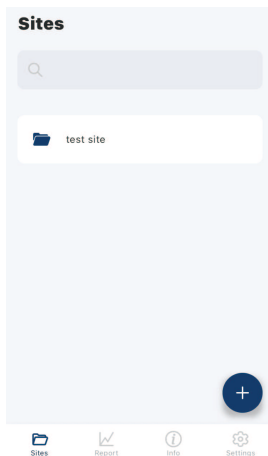
Location data can be exported as a CSV file.

For a single location

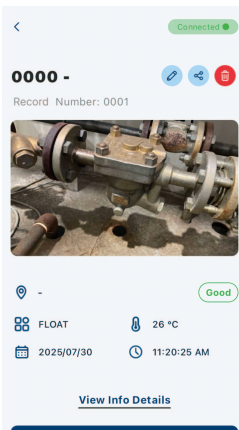
1. Open [Sites].





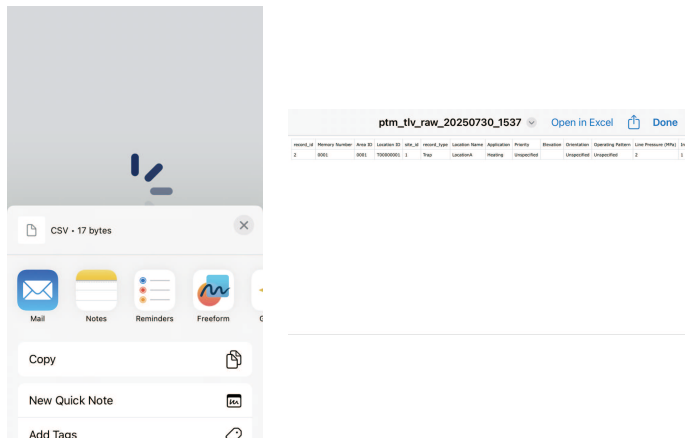
2. Tap the site name to view a list of locations.



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.

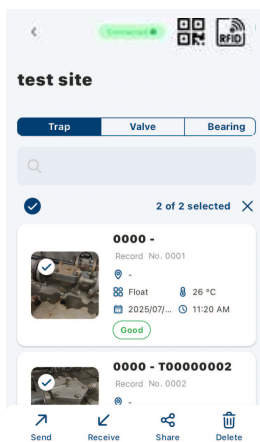


For multiple locations

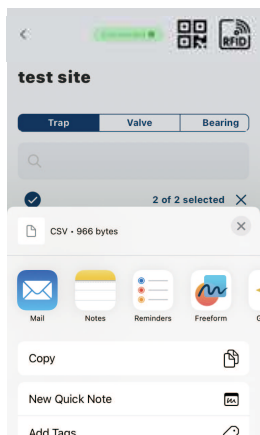
1. Open [Sites].



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)

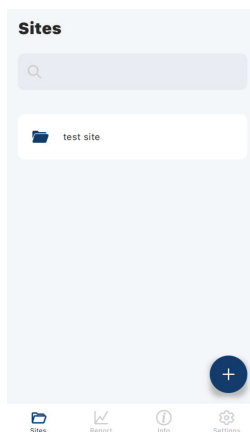
Use the search bar and filters to find sites easily.

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

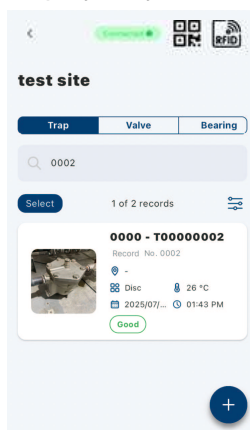
1. Open [Sites].




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.

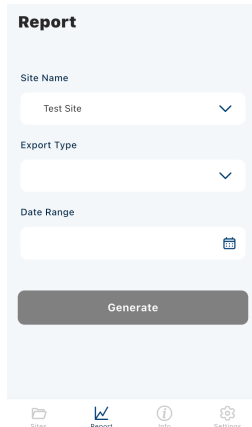
6. Tap [Apply Filter] to narrow down the list.

Generate reports (analysis and summary)

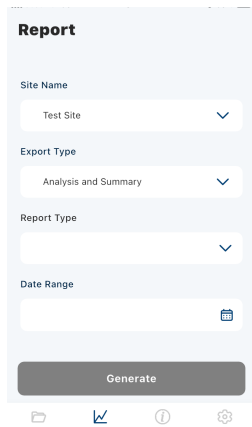
1. Open [Report].



2. Select [Site Name].

A screenshot of a mobile application interface titled "Report". It contains four input fields: "Site Name" with a dropdown menu showing "Test Site", "Export Type" with a dropdown arrow, "Date Range" with a calendar icon, and a "Generate" button at the bottom. A bottom navigation bar shows icons for Home, Report (active), Info, and Settings.

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

A screenshot of the same mobile application interface, but the "Export Type" dropdown menu is now open, showing "Analysis and Summary" as the selected option. The "Generate" button remains at the bottom, and the bottom navigation bar is still visible.

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)

The screenshot shows the 'Report' form with the following fields:

- Site Name:** A dropdown menu with 'test site' selected.
- Export Type:** A dropdown menu with 'Analysis and Summary' selected.
- Report Type:** A list of checkboxes for selection:
 - ☐ All
 - ☐ ST1 Steam Trap Report
 - ☐ ST2 Trap Type Analysis
 - ☐ ST3 Application Analysis
 - ☐ ST4 Pressure Analysis
 - ☐ ST5 Area Analysis

The bottom navigation bar includes icons for Sites, Report, Info, and Settings.



Note
Checking "All" selects all pages.

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

The two screenshots show the 'Data Range' selection process. The left screenshot shows the 'All Duration' checkbox unchecked, and the right screenshot shows it checked. Both screenshots show a calendar view for the year 2025, with the date range from July 30 to August 31 selected.

The bottom navigation bar includes icons for Sites, Report, Info, and Settings.

6. Tap [Generate] to display the report.

The screenshot shows the 'Report' form with the following fields:

- Site Name:** A dropdown menu with 'test site' selected.
- Export Type:** A dropdown menu with 'Analysis and Summary' selected.
- Report Type:** A dropdown menu with '8 Items Selected' selected.
- Date Range:** A dropdown menu with 'All Duration' selected.

A large blue 'Generate' button is located at the bottom of the form.

The bottom navigation bar includes icons for Sites, Report, Info, and Settings.

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.

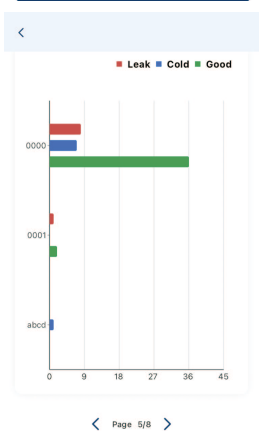
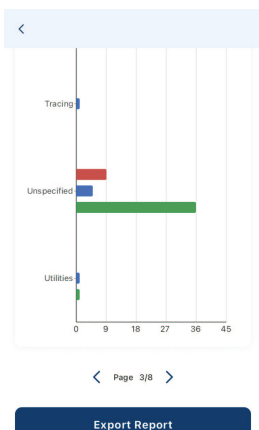
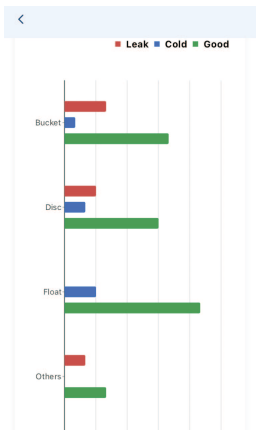
<

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%

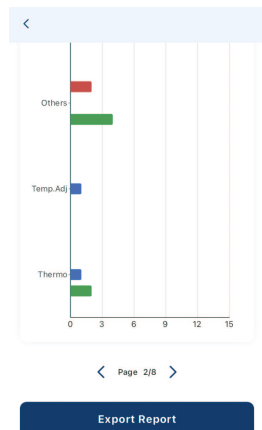


<

Fail ADJ-H	0	0.0%
Fail ADJ-L	0	0.0%
Total in Operation	55	100.0%
No Check	0	0.0%
Not In Service	1	100.0%
Total Not in Operation	1	100.0%

Reference Table

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



<

Report

Steam Trap Report

Pressure Analysis

Pressure (MPa)	Leak	Cold	Good
<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

<

Report

Valve Report

Inspection Summary Table

Test Results	Quantity	Rate
Leak	0	0.0%
Good	0	0.0%
Caution	0	0.0%
Total in Operation	0	0.0%
Not In Service	0	0.0%
No Check	0	0.0%
Total Not in Operation	0	0.0%

<

Leak/S	ST Leak
Blocked	ST Cold
Not In Service	Inconclusive
Low Temp.	ST Cold
Good	Good
No Check	Inconclusive
Fail ADJ-H	ST Leak
Fail ADJ-L	ST Cold
Caution	ST Leak

Page 1/8 >

Export Report

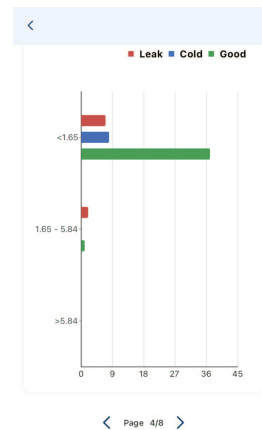
<

Report

Steam Trap Report

Application Analysis

Application	Leak	Cold	Good
Heating	0	1	0
Other	0	0	1
Tracing	0	1	0
Unspecified	9	5	36
Utilities	0	1	1



<

No Check	0	0.0%
Total Not in Operation	0	0.0%

Reference Table

Test Result	PT3 Category
Leak	Valve Leak
Not In Service	Inconclusive
Good	Good
No Check	Inconclusive
Caution	Valve Leak

< Page 6/8 >

<

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



<

Report

Steam Trap Report

Area Analysis

Area ID	Leak	Cold	Good
0000	8	7	36
0001	1	0	2
abcd	0	1	0

<

Report

Valve Report

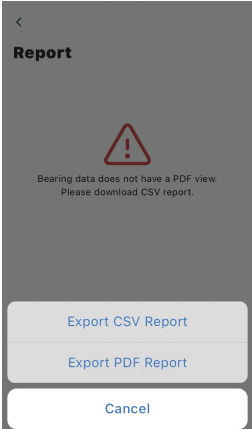
Valve Damage Summary

There's no locations found.

< 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].

A screenshot of the "Report" form. It has a title "Report" at the top. Below it are four fields: "Site Name" with a dropdown menu showing "Test Site", "Export Type" with a dropdown menu, "Date Range" with a date picker icon, and a "Generate" button at the bottom. At the very bottom of the page is a navigation bar with icons for "Sites", "Report", "Info", and "Settings".

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

A screenshot of the "Report" form. The "Export Type" dropdown menu is now open, showing "Inspection History" selected. Below it, there are two more dropdown menus: "Location Type" and "Inspection History Type" (showing "Type 1"). The "Date Range" field and "Generate" button are still at the bottom. The navigation bar at the bottom remains the same.

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

A screenshot of the "Report" form. The "Location Type" dropdown menu is open, showing a list of five items: "All", "Bearing", "User defined 1", "User defined 2", and "User defined 3", all of which are checked. Above the list, it says "4 Items Selected". The "Export Type" is still "Inspection History". The navigation bar at the bottom is visible.

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	Bearing		74	92	
1	0		2	Bearing		1	80	
1	0		2	Bearing		1	81	
1	0		2	Bearing		1	85	
2	0		2	Bearing		65	85	
2	0		2	Bearing		1	85	
2	0		2	Bearing		1	83	
2	0		2	Bearing		1	85	
3	0		2	Bearing		67	91	
3	0		2	Bearing		67	86	
3	0		2	Bearing		1	1	
4	0		2	Bearing		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 1

Type 2

Generate

Sites

Report

Info

Settings

- 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

2025 July 31

2025 July 31

Sites

Report

Info

Settings

Report

Export Type

Inspection History

Location Type

4 Items Selected

Done

All Duration

Start Date

2025 July 31

End Date

2025 July 31

2025 July 31

2025 July 31

Sites

Report

Info

Settings

- Tap [Generate] to generate report.

Report

TLV

Export Type

Inspection History

Location Type

4 Items Selected

Inspection History Type

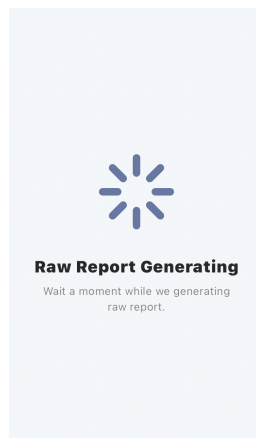
Type 1

Date Range

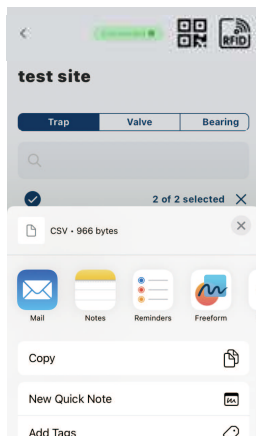
All Duration

Generate

Sites Report Info Settings



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

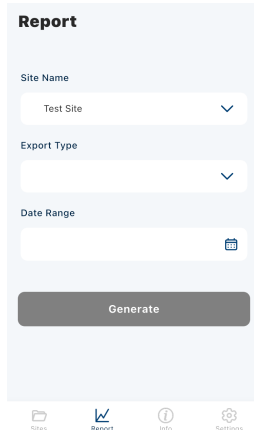


Export QR codes

1. Open [Report].

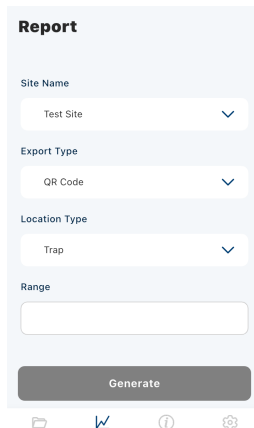


2. Select [Site Name].



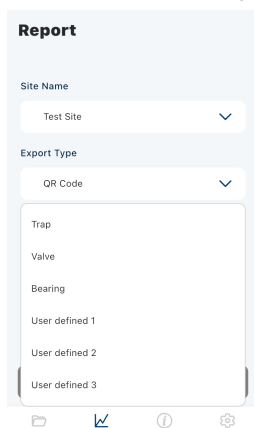
The screenshot shows a mobile application interface for generating reports. At the top, there's a header 'Report' with a blue line graph icon. Below it, there are four input fields: 'Site Name' (a dropdown menu with 'Test Site' selected), 'Export Type' (a dropdown menu), 'Date Range' (a text field with a calendar icon), and a 'Generate' button. At the bottom, there's a navigation bar with icons for 'Files', 'Report', 'Info', and 'Settings'.

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



The screenshot shows the same 'Report' form as before, but now the 'Export Type' dropdown menu is open, showing 'QR Code' as the selected option. The 'Site Name' dropdown is still open, showing 'Test Site'. The 'Date Range' field is empty. The 'Generate' button is at the bottom. The navigation bar at the bottom is the same.

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



The screenshot shows the 'Report' form with the 'Location Type' dropdown menu open. The dropdown menu lists 'Trap', 'Valve', 'Bearing', 'User defined 1', 'User defined 2', and 'User defined 3'. 'Trap' is selected. The 'Site Name' dropdown is still open, showing 'Test Site'. The 'Export Type' dropdown is still open, showing 'QR Code'. The 'Date Range' field is empty. The 'Generate' button is at the bottom. The navigation bar at the bottom is the same.

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

Report

Site Name
Test Site

Export Type
QR Code





Location Type
Trap

Range
1-50

Generate

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

QR Code Preview

<p>T0001</p>  <p>Test Site 0001-T000000001 LocationA</p>	<p>T0002</p>  <p>Test Site 0002-T000000002 Location</p>
<p>T0003</p>  <p>Test Site 0000</p>	<p>T0004</p>  <p>Test Site 0000</p>

Export QR Code

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

test site

Trap Valve Bearing

2 of 2 selected

CSV - 966 bytes

Mail Notes Reminders Freeform

Copy

New Quick Note

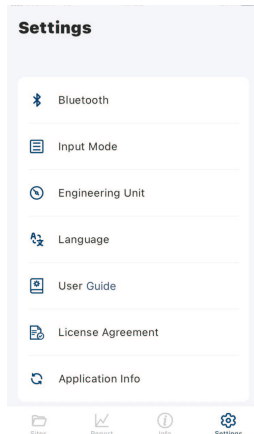
Arld Taos

Export data

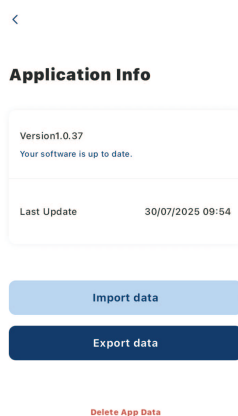
1. Open [Settings].



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

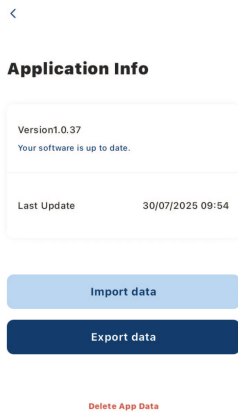
DB files cannot be opened and viewed directly. To view the data, export location data as a CSV file. Refer to [Export location data to CSV \[50\]](#) for details.

Import data

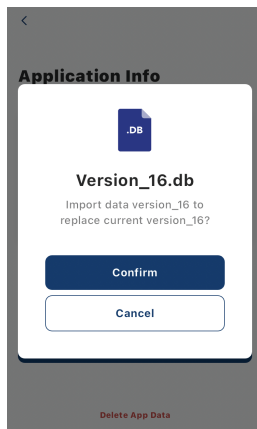
1. Open [Settings].



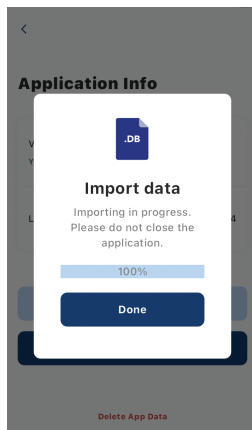
2. Tap [Application Info].
3. Tap [Import Data].



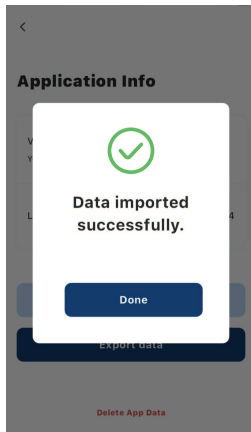
4. Select the DB file (database file for CMRecorder).
5. When the confirmation message is displayed, tap [Confirm].



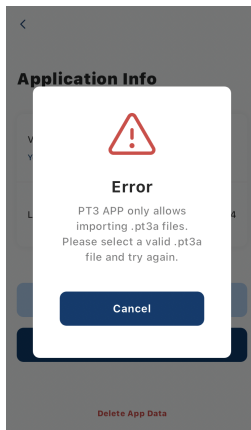
6. When "Import completed" is displayed, tap [Done].



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.




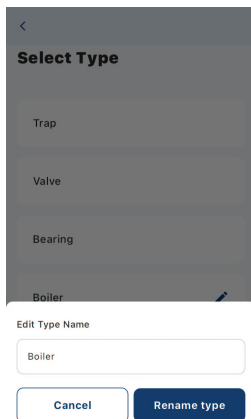
Set user defined fields

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

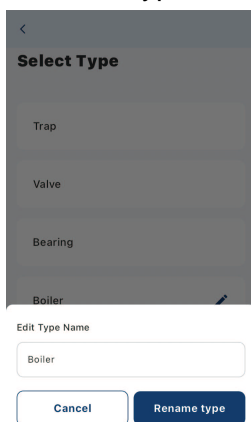
1. Open [Settings].



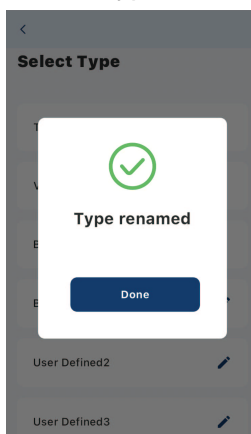
2. Tap [Input mode].
3. Tap  next to the User Defined to be changed.



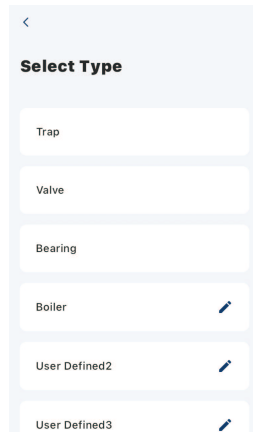
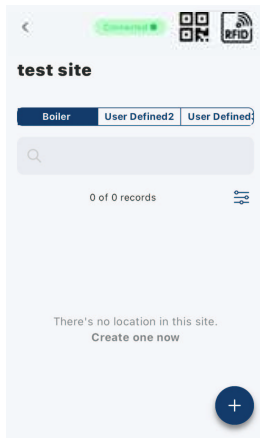
4. Enter the type name in the [Edit Type Name] field and tap [Rename type].



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.

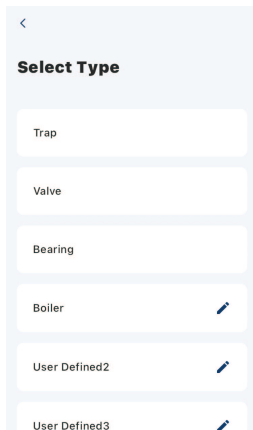
Change the input mode

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].



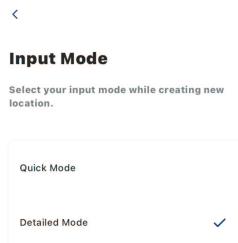
2. Tap [Input mode].
3. Select [Type] from the following options: Trap, Valve, Bearing, User Defined 1 to 3

A screenshot of the "Select Type" screen. It has a back arrow at the top left. The title is "Select Type". Below the title are six input fields: "Trap", "Valve", "Bearing", "Boiler", "User Defined2", and "User Defined3". Each field has a blue pencil icon to its right.

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.

A screenshot of the "Input Mode" screen. It has a back arrow at the top left. The title is "Input Mode". Below the title is a subtitle: "Select your input mode while creating new location." Below the subtitle are two radio button options: "Quick Mode" and "Detailed Mode". The "Detailed Mode" option is selected, indicated by a blue checkmark.A blue button with the text "Save Changes" in white.

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

- 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

- Tap [x] to delete input fields.

<

Test Result

Inspection Time

Picture

Other Notes

Priority ✓ ✕

Elevation ✓ ✕

+ Add Input Field

Save Changes

- Tap [Save Changes] on the input field screen.
- 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].



2. Tap [Engineering Unit].
3. Select the temperature unit from the following: °C, °F
Select the pressure unit from the following: MPa, bar, kgf/cm², psi



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

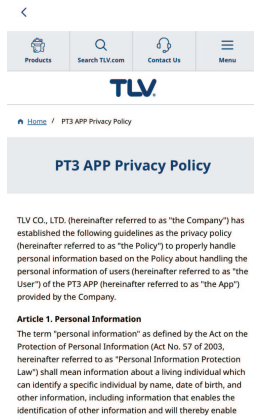
2. Tap [User Guide].
3. The user guide will be displayed.

Confirm license agreement

1. Open [Settings].



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

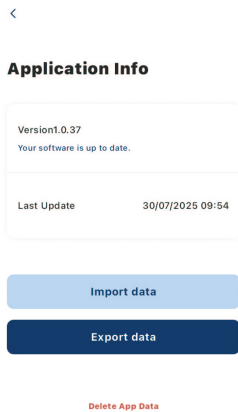


Confirm the app version

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.

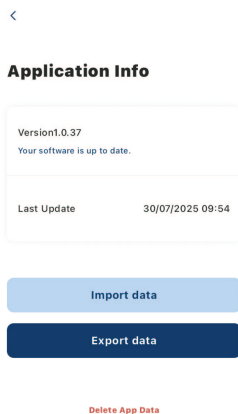
Delete app data

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

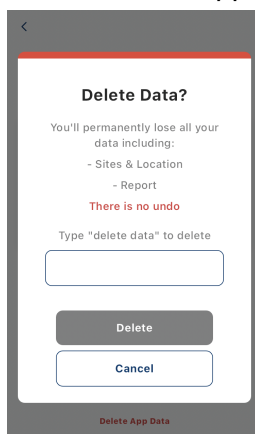
1. Open [Settings].



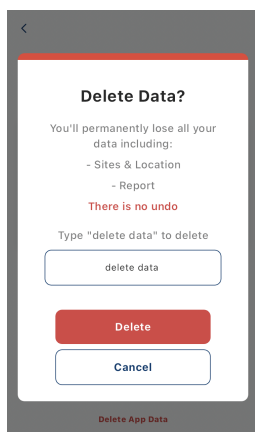
2. Tap [Application Info].
3. Tap [Delete App Data].



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.