

# OCEAView™ Mobile

Mobile monitoring and utilities  
application



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# 1 Introduction

## 1.1 Welcome to OCEAView Mobile

Congratulations and thank you for choosing OCEAView Mobile. This application for iOS and Android mobile smartphones enables you to:

- Set up and monitor Dickson Emerald and Atlas data loggers
- Synchronize data from your Bluetooth-enabled Atlas and Emerald data loggers with the OCEAView Cloud or On-premises platform using your mobile device
- View Cobalt X (X1 and X2) and Cobalt XS data loggers wirelessly using Bluetooth
- Run technical utilities to perform various tasks on supported Dickson data loggers and other devices

### 1.1.1 OCEAView Mobile feature highlights

#### Viewing

- View your Bluetooth-enabled Dickson Atlas, Emerald, and Cobalt X data loggers within Bluetooth wireless range
- Select and display data loggers in Watch Mode for continuous monitoring (*local use only, not connected with OCEAView Cloud platform*)

#### Data logging

- Program Dickson Atlas and Emerald data loggers for standalone use or integrated with your OCEAView Cloud account



Cobalt X and Cobalt XS data loggers running in Bluetooth mode can only be programmed from the OCEAView web application, though you may view them on your smartphone with OCEAView Mobile.

- Push data from Atlas and Emerald data loggers to OCEAView Cloud platform if connected
- Set up to three high and three low limits with alarm delays on Atlas and Emerald data loggers
- Adjust the sensor reading interval
- Export data from your data loggers
  - Raw data (CSV)
  - Summary report with key information (PDF or XLSX)
  - Summary report plus all sensor readings (PDF)

- Track the location when OCEAView Mobile connects to data loggers (as authorized on your iOS/Android device)
- Control wireless connectivity with smart sleep mode or timed wake-up

**Connectivity**

- Uses your device's Bluetooth Low Energy (BLE) wireless connectivity
- Range generally up to about 50 meters (160 feet) line-of-sight

**Supported mobile operating systems**

We make every effort to keep OCEAView Mobile up to date with the latest mobile platform operating systems but given the rapid changes in the smartphone marketplace we cannot make any guarantees with respect to specific device models and operating system versions. The software has been tested and validated on the following:

- Android version 8 or higher
- iOS version 11 or higher

### 1.1.2 Related product user guides

You will find the following user guides on Dickson’s website:

- OCEAView  
[https://docs.oceaview.com/oceaview\\_web\\_user\\_guide\\_en.pdf](https://docs.oceaview.com/oceaview_web_user_guide_en.pdf)
- Cobalt X (X1 and X2)  
[https://docs.oceaview.com/cobalt\\_x\\_user\\_guide\\_en.pdf](https://docs.oceaview.com/cobalt_x_user_guide_en.pdf)
- Cobalt XS  
[https://docs.oceaview.com/cobalt\\_xs\\_user\\_guide\\_en.pdf](https://docs.oceaview.com/cobalt_xs_user_guide_en.pdf)
- Emerald  
[https://docs.oceaview.com/emerald\\_user\\_guide\\_en.pdf](https://docs.oceaview.com/emerald_user_guide_en.pdf)
- Atlas  
[https://docs.oceaview.com/atlas\\_user\\_guide\\_en.pdf](https://docs.oceaview.com/atlas_user_guide_en.pdf)

### 1.1.3 About iOS® and Android® app versions

This User Guide describes the OCEAView mobile application for both iOS® and Android® platforms. All software features are identical, regardless of the operating system. Icon appearance and other minor graphical aspects may vary slightly from one platform to another, without any impact on functionality.

## 1.2 Use cases

OCEAVIEW Mobile can be used in different ways, depending on your needs. Benefit from sensor monitoring integrated with the OCEAVIEW Cloud platform without any infrastructure – all you need is a mobile phone. Or simply use your smartphone to program and monitor supported data loggers directly, without any outside connection. The main usage models are described below.

### 1.2.1 Standalone use with Atlas and Emerald data loggers

You can use OCEAVIEW Mobile to program and manage Dickson Atlas and Emerald data loggers. In this case, OCEAVIEW Mobile is used in standalone mode, without any external connections.



*Programming and reading data loggers wirelessly with a mobile phone*

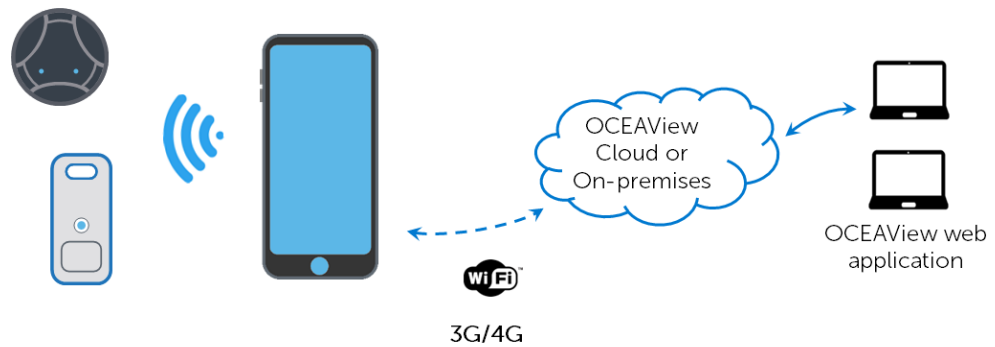


You can program Atlas and Emerald data loggers with OCEAVIEW Mobile, but you must always program Cobalt X data loggers (even in Bluetooth mode) using the OCEAVIEW web platform.

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### 1.2.2 Manage and synchronize Atlas and Emerald data loggers

If you have access to an OCEAView Cloud or On-premises solution, you can use OCEAView Mobile manage data loggers and synchronize data with your web application:

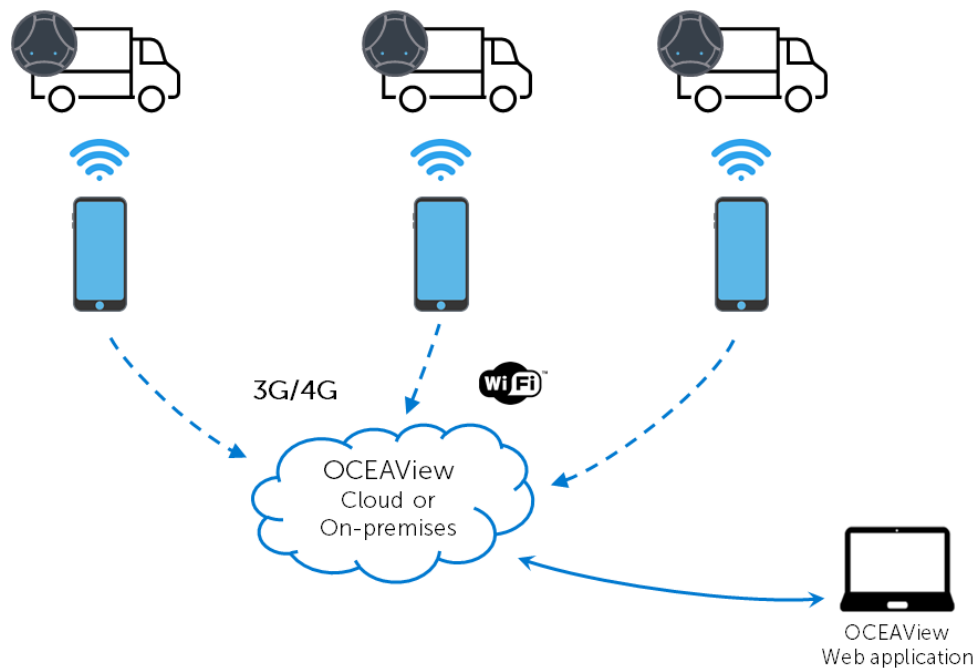


*Reading data loggers and synchronizing with the OCEAView web platform*

In this case, use OCEAView Mobile to program and manage your data loggers and push sensor readings and all relevant information via your mobile device's Internet connection to your OCEAView Cloud or On-premises platform.

### 1.2.3 Multi-destination monitoring with Atlas and Emerald

Check temperature-sensitive goods during shipment:



*Multi-destination monitoring with data loggers checked at different locations by the same person or different people*

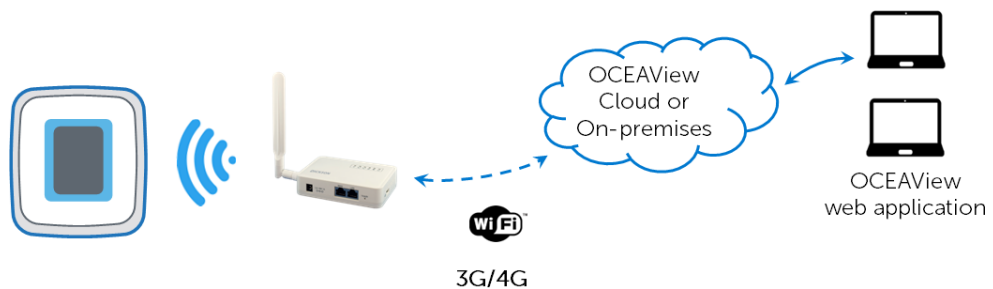
In this case, OCEAVIEW Mobile reads your Emerald and Atlas data loggers at multiple locations and pushes sensor readings and all relevant information via your mobile device's Internet connection to your OCEAVIEW Cloud or On-premises platform. This offers a simple solution for monitoring temperature in packages, refrigerated trucks, laboratories, storage facilities, and more.



Data is not uploaded to the Cloud continually, but only when pushed by OCEAVIEW Mobile.

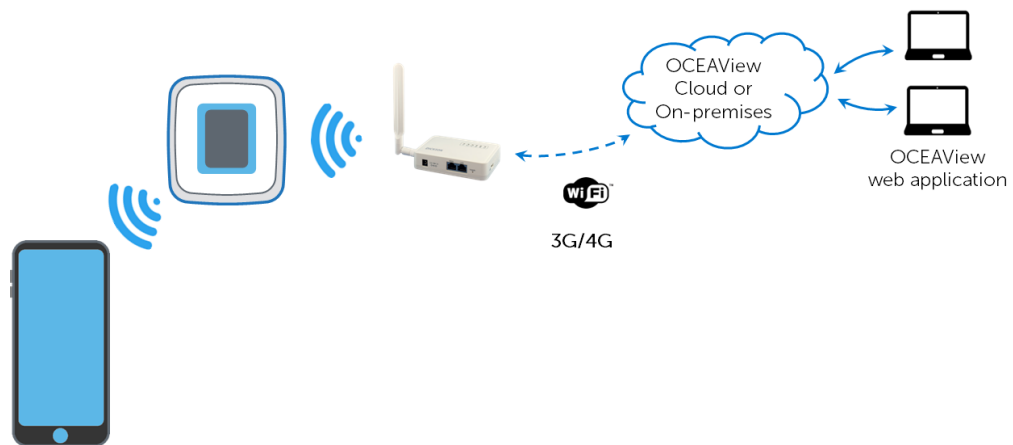
### 1.2.4 Accessing Cobalt X data loggers

The diagram below shows how Cobalt X (X1 and X2) data loggers running in Bluetooth mode communicate with the OCEAVIEW monitoring solution via a Bluetooth gateway:



*Cobalt X with OCEAVIEW Cloud or On-premises solution via Bluetooth*

In this scenario, Cobalt X data loggers are managed entirely via the OCEAVIEW web application. However, you may use OCEAVIEW Mobile to access the data loggers to read data from your smartphone:

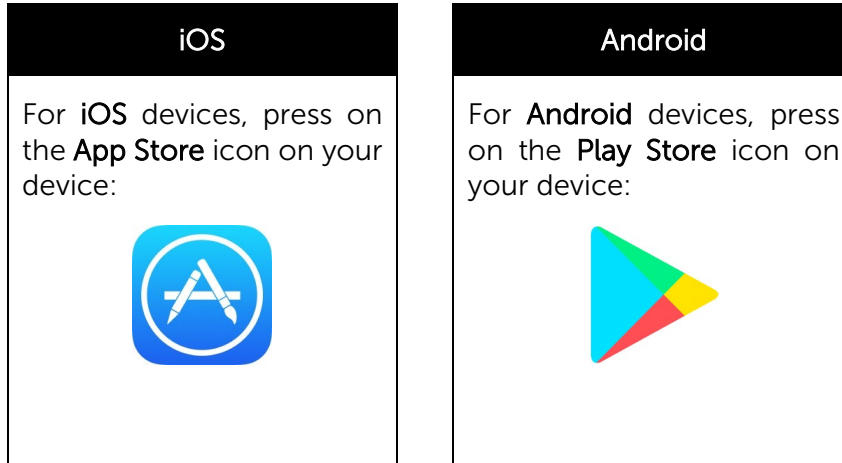


*Using OCEAVIEW Mobile to read Cobalt X data loggers via Bluetooth*

## 1.3 Installing OCEAView Mobile

OCEAView Mobile is accessible on the Apple App Store® and Google Play®.

Access the online stores directly to install the OCEAView Mobile app on your mobile phone.




1. Search for “OCEAView” by Dickson Unigage on the appropriate store page (not the legacy OCEAView application by OCEASOFT).
2. Select the application and follow your platform’s instructions to proceed with installation.
3. When installation is complete, press on the OCEAView icon to open the application on your smartphone and allow it to access Bluetooth, Wi-Fi, location, and camera functionality as necessary.



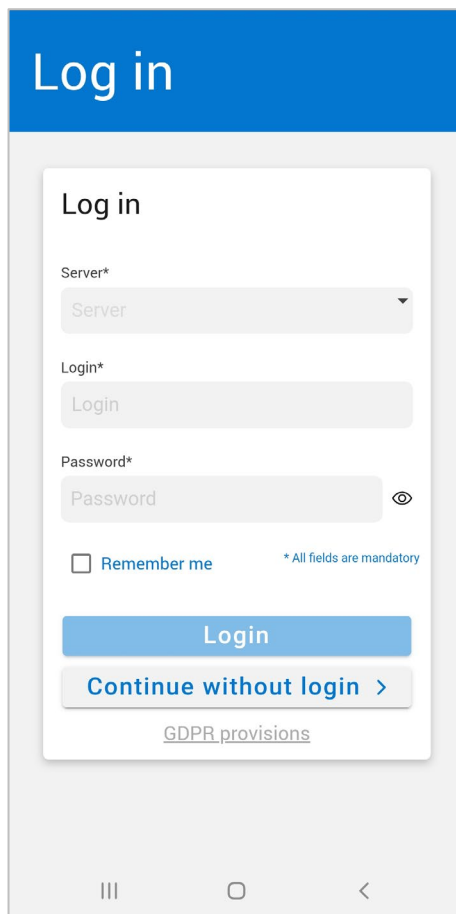
*OCEAView mobile application icon*

## 2 Getting started with OCEAView Mobile

### 2.1 Application screen

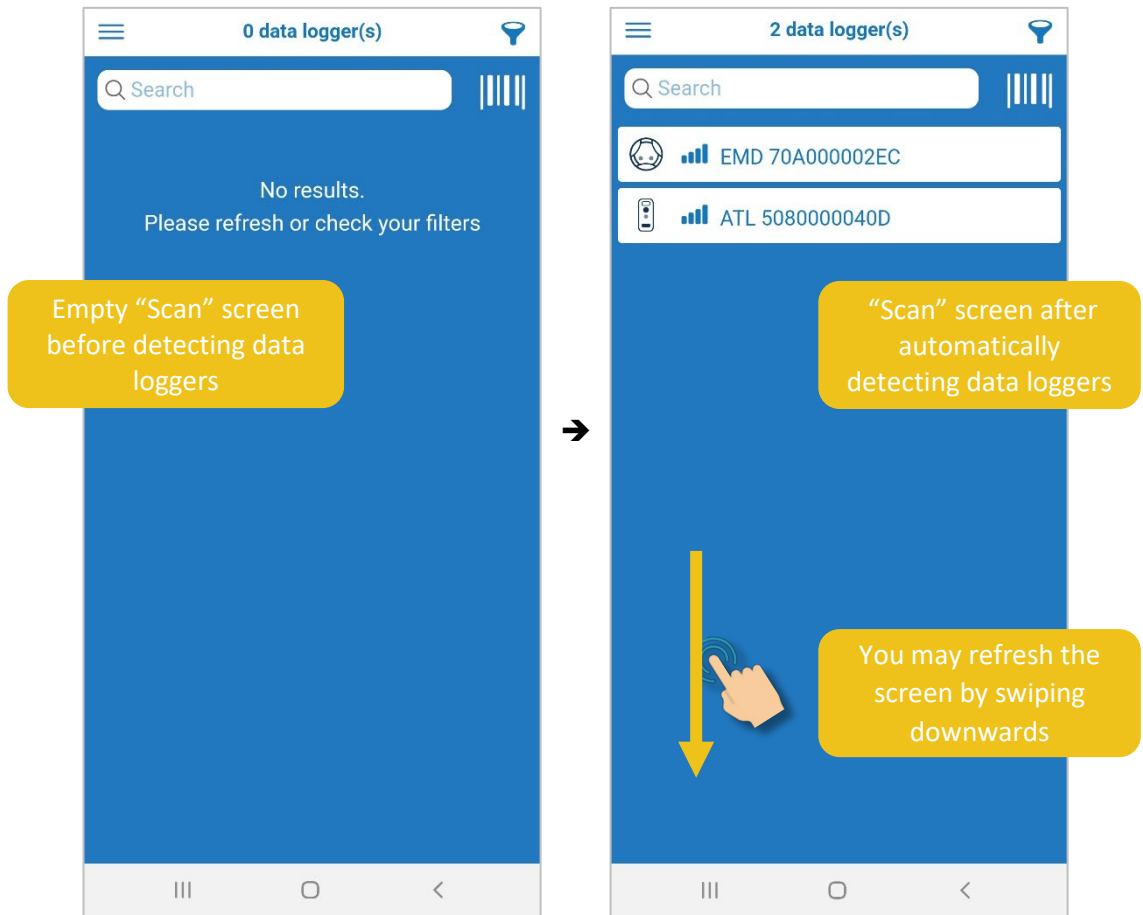
When you press the icon (  ) to launch OCEAView, the first screen invites you to login to your regular OCEAView Cloud or OCEAView On-premises account.

You may choose to login now or later. Details on connecting your mobile application to the OCEAView web platform are provided in this guide in section [4.1 – Logging into to your OCEAView web platform, p. 37](#). Some features, such as synchronization, are only available when the app is connected.



*Login option before continuing*

If you continue without logging in, the main screen shown below opens by default. This is called the “Scan” screen:



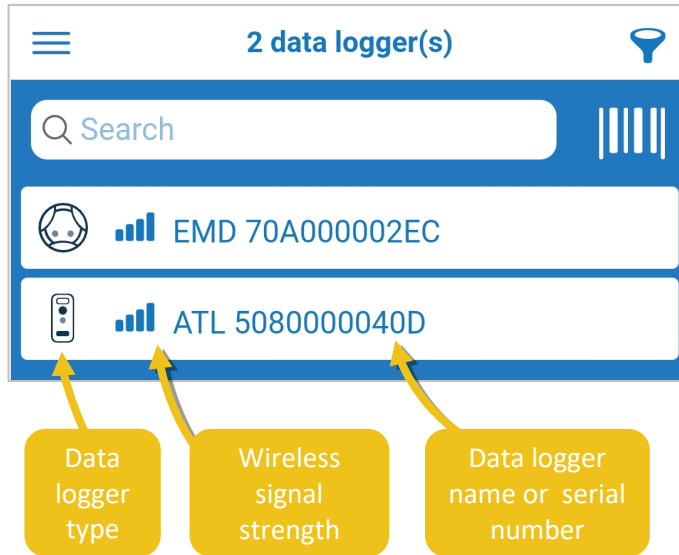
*OCEAView “Scan” screen before and after detecting data loggers*

This screen shows all the compatible data loggers within Bluetooth wireless range that you are authorized to view.

### 2.1.1 Color codes and icons

The **Scan** screen shows each data logger with a variety of information, notably using color codes and familiar icons for easy reading.

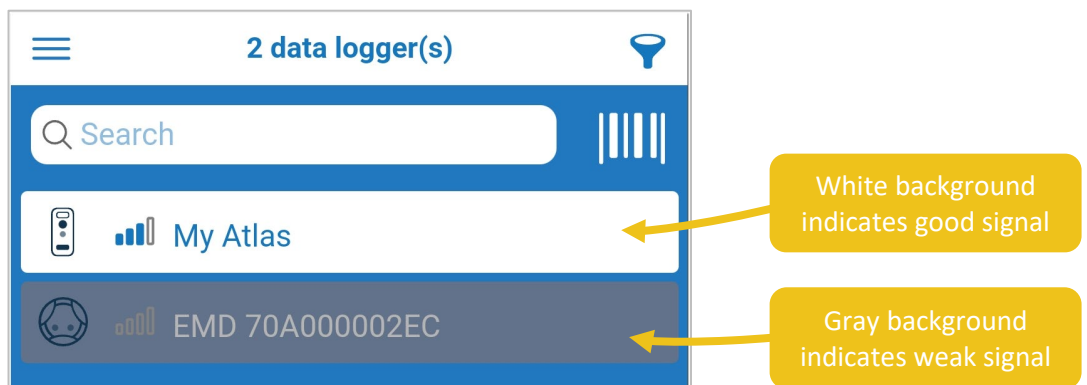
#### 2.1.1.1 Key elements



*Data logger type, signal strength, and identification*

#### 2.1.1.2 Acceptable wireless range

OCEAVIEW Mobile can reliably read data loggers with a strong Bluetooth wireless signal. If the signal is too weak because a data logger is too far away or if there is a lot of interference, the application displays the data logger with a gray background as shown below. If the data logger is shown in a gray background, it means that the data logger is still “visible”, but that you must be closer to interact. Some operations cannot work if the signal is too weak.



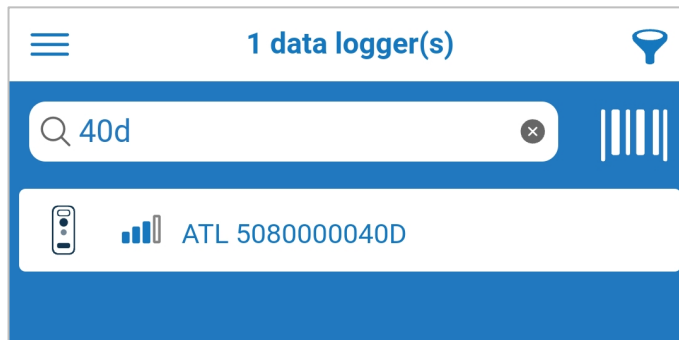
*Avoid trying to use data loggers with a weak signal*

### 2.1.1.3 Data loggers linked to a company

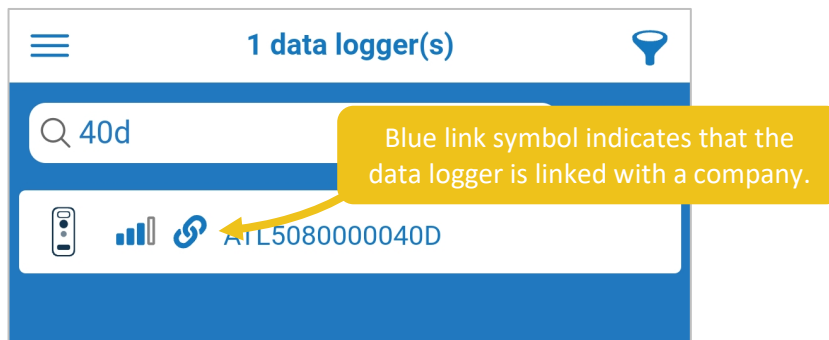
Atlas and Emerald data loggers can either be used as a standalone solution, or they can be linked with your OCEAVIEW web-based monitoring platform. In that case, they are linked with your company account. Cobalt X and Cobalt XS data loggers are always linked with your company.

When using OCEAVIEW Mobile, you are free to start, stop, and view data loggers that are not linked with a company. However, for security reasons, you are not allowed to access data loggers that are linked with a company unless you are also logged in to that same company (as described in section 4.1 – Logging into to your OCEAVIEW web platform, p. 37).

Unlinked data loggers are shown like this:



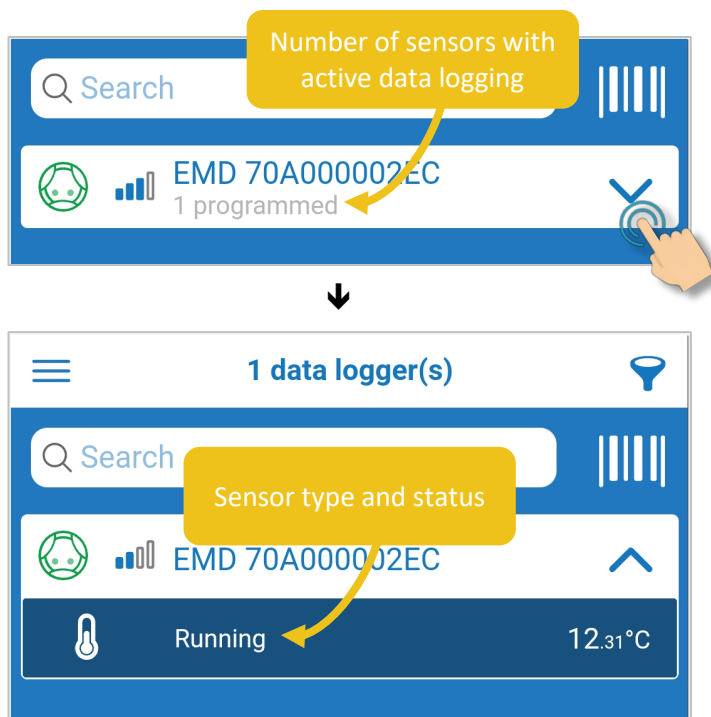
Linked data loggers are shown like this, with a link symbol (🔗):



*Linked and unlinked data loggers*

### 2.1.1.4 Checking current sensor reading with data logging in progress





When data logging is activated, the number of programmed sensors on the device is indicated beneath the name. You may press on the down arrow (▼) to unfold the sensor display pane with the current sensor reading (or readings if the data logger has several sensors) and status information. When done, press on the up arrow (▲) to close the pane.







*Current sensor reading with data logging running*










Data logging is discussed in more detail in the next chapter.

When you unfold the sensor display by clicking on the down arrow (▼), the sensor type and status are displayed:

Sensor icons	Type
	Temperature (measured in C° or F°)
	Relative humidity (measured in %)
	Light (measured in Lx)
	CO <sub>2</sub> (measured in %)





	4-20 mA, 0-5 / 0-10V
	Dry contact (input) – Normal closed
	Dry contact (input) – Normal open
	Differential pressure (measured in Pa)

The following data logging statuses may be displayed (with temperature sensor icon used as an example):

Icon	Status	Description
	Starting	Waiting to start running for the first time. Not <b>Running</b> and not <b>Stopped</b> .
	Running	Data logger is running and collecting data.
	Stopped	Data logger is no longer running after operating previously.
 	An alarm occurred	An alarm was detected but the data logger is operating in the correct range again. Acknowledge and clear the alarm in the OCEAView web application.
 	Alarm	A high or low limit alarm, or technical alarm is currently happening. Acknowledge and clear the alarm in the OCEAView web application.
 	Warning	[Cobalt X only] A high or low limit warning is currently happening. Warnings do not need to be acknowledged in the OCEAView web application.

#### 2.1.1.5 Data logger status in Scan screen

The color device icons in the Scan screen indicate data logger status:

Data loggers: Atlas, Emerald, Cobalt X	Description
	<p>Data logger is ready to use, not programmed.</p>
	<p>Data logging is running with no alarms currently.</p>
	<p>Data logging is running with a <b>high or low limit alarm</b> (the sensor reading is in excursion with respect to a programmed limit), or a <b>technical alarm</b> such as a sensor failure or low battery. Alarms must be acknowledged in the OCEAView web application.</p>
	<p><b>For Cobalt X only:</b> Data logging is running with a high or low limit <b>warning</b> (the sensor reading is in excursion with respect to a programmed limit configured as a warning). Warnings do not need to be acknowledged in the OCEAView web application.</p>

High and low limits are assigned when programming data logging.

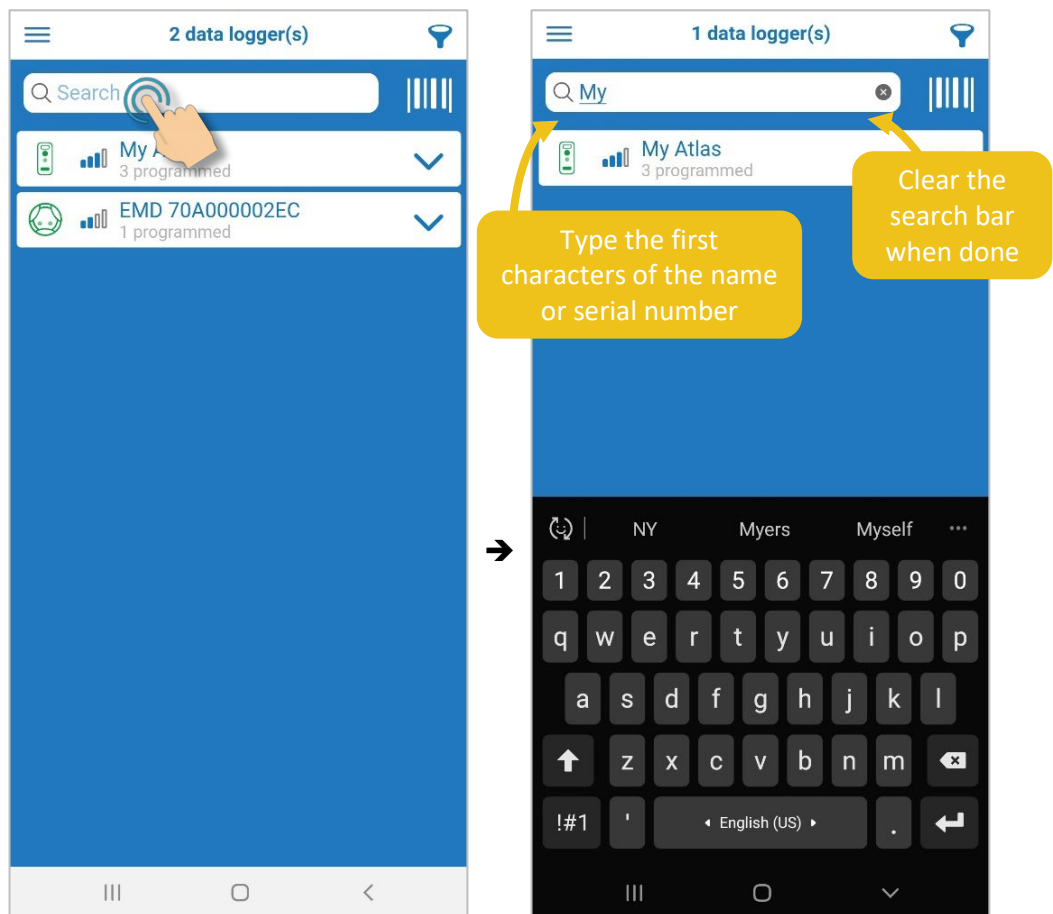
## 2.1.2 Searching for data loggers

If you have a large number of data loggers, it may be easier for you to limit the display to show just one or certain ones. There are several ways to streamline the display.

### 2.1.2.1 Using the search bar

To use the search bar at the top of the **Scan** screen:


1. Press in the empty field and start typing the first letters of the data logger name or serial number that you want to display.
2. The list updates automatically as you type.
3. When done, press on **X** to clear the search bar.

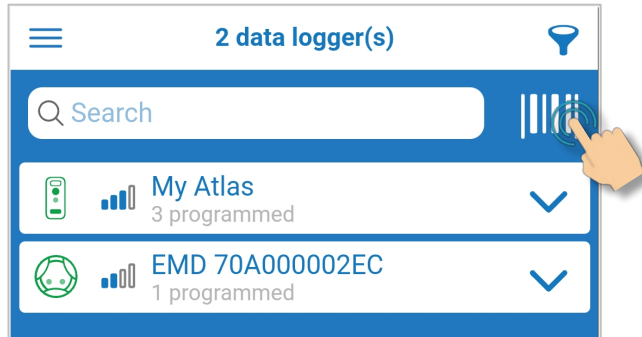


*Enter the data logger name or serial number in the search field*

### 2.1.2.2 Scanning a bar code with your camera

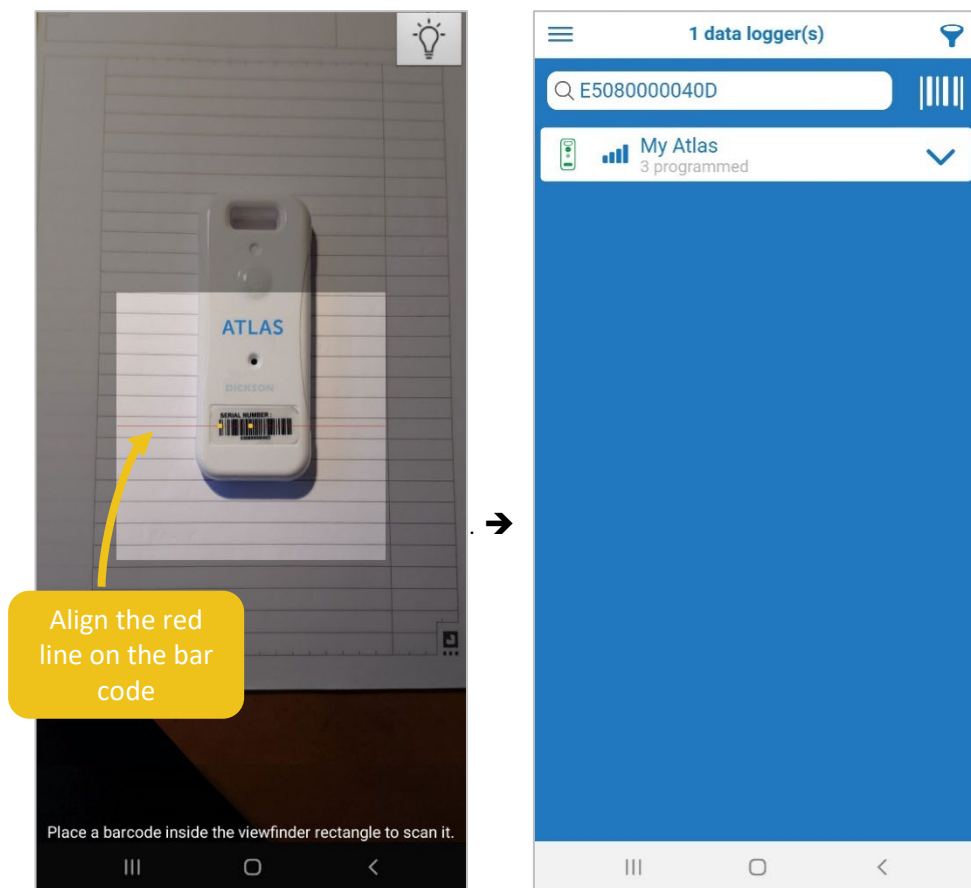
To use your mobile device's camera to scan a data logger's bar code:

1. Press on the bar code icon (  ) in the upper right-hand corner of the screen, which opens the camera on your mobile device.





*Accessing the bar code scanner*

2. Align the red line in the viewfinder on the data logger's bar code to scan it.




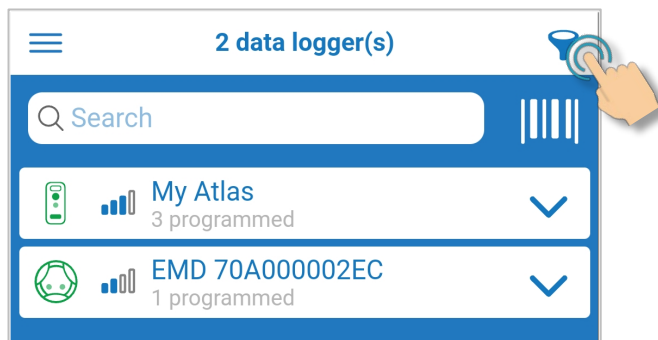
*The scanned data logger is displayed*

**Note:** if more light is needed, you may turn on your device's light by pressing on the  icon.

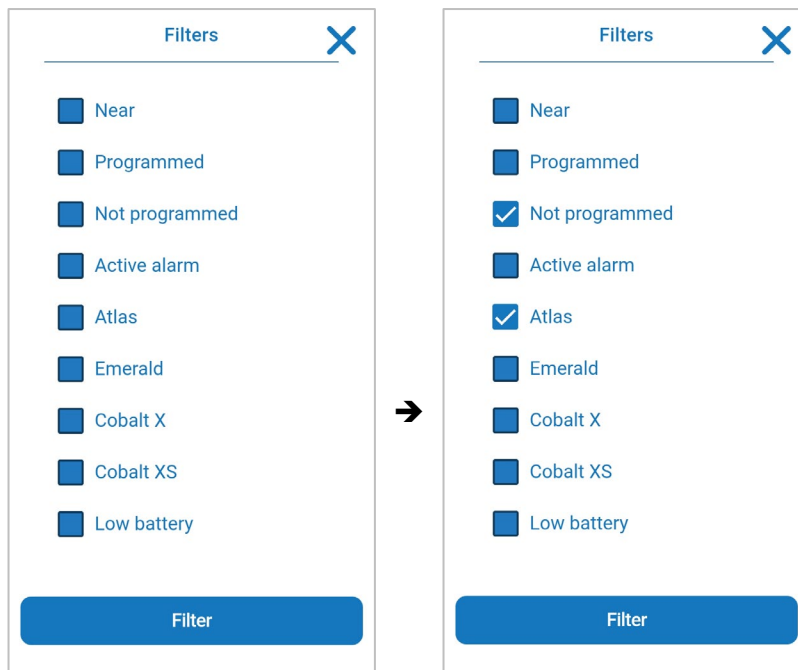
3. When the application detects the code, it automatically returns to the previous screen and displays that data logger (if Bluetooth is activated).
4. When done, press in the search bar, then press on  to clear the field.

### 2.1.2.3 Applying a filter

1. Press on the filter icon (  ) in the upper right-hand corner of the screen, which displays the Filters screen.

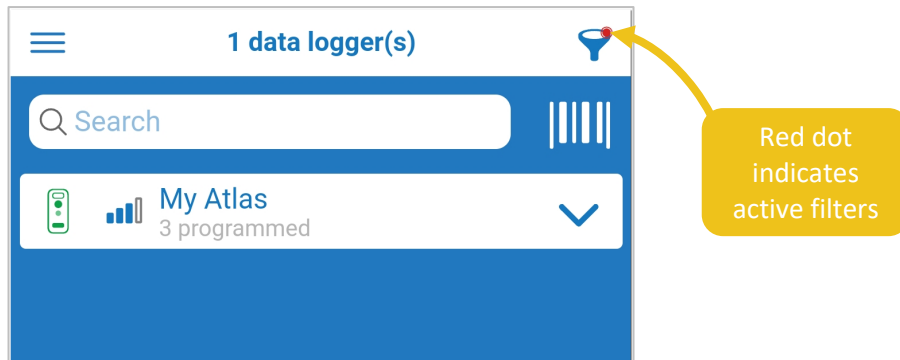


2. Press to select the parameters that interest you, for example: all Atlas data loggers that are nearby and programmed.




#### *Applying filters*


3. Press **Filter** to apply your selection.
4. The scan list is updated to reflect your filters.

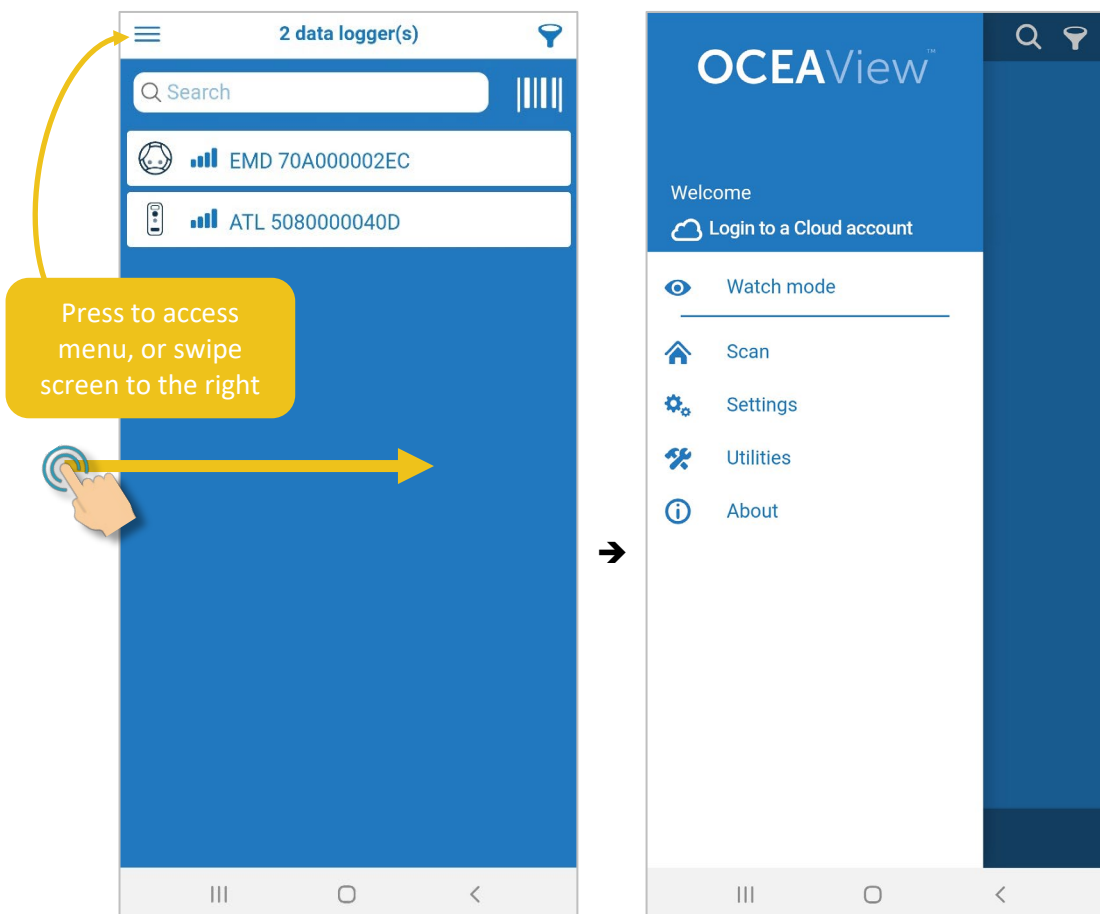


*Filter indication*

**Note:** Filters remain active until you clear them by deselecting them. A red dot is displayed on the filter icon (  ) to remind you that filters are applied.







### 2.1.3 Application menu

Access the main menu by swiping from the left-hand side of the screen towards the right or by pressing on the  icon:



*Opening the main menu*

Simply swipe the menu to the left or press anywhere outside the menu to hide the menu. The options in this menu are:

Description	
	<p><b>Login to a Cloud account</b> – If you have an OCEAVIEW Cloud or On-Premises solution and you want to synchronize supported data loggers to your account, you may login here. Some OCEAVIEW Mobile features are only available if you are logged in.</p> <ul style="list-style-type: none"> <li>- Once you are logged in, you will only see data loggers that belong to your company.</li> <li>- If you are not logged in, you will not see data loggers belonging to either your company or another company.</li> </ul>
	<p><b>Watch mode</b> – Monitors selected data loggers continuously and displays the results in thumbnails on the screen.</p>
	<p><b>Scan</b> – Lists supported data loggers within Bluetooth wireless range. Use this option to access data logging and monitoring features.</p>
	<p><b>Settings</b> – Application configuration options:</p> <p><b>Temperature unit:</b> choose C° or F°.</p> <p><b>Display UTC time:</b> the app can indicate time using your device’s local time or UTC time. This is strictly for display purposes, as date/time stamps for sensor readings, alarms, and other events are always stored in UTC time.</p> <p><b>Display corrected limits:</b> takes calibration correction parameters stored on data loggers into account when displaying upper and lower limits.</p> <p><b>Enable advanced logs:</b> keeps a detailed log of all application activity, which you may send to our Technical support team by pressing the <b>Send logs</b> button. Unless you have specific instructions to turn this feature on, we recommend leaving it off to save space in your device’s memory. The default setting of not having advanced logs enabled is restored the next time you start the app.</p>
	<p><b>Utilities</b> – This area offers several technical features for advanced users.</p>
	<p><b>About</b> – Contains information about the application and access to other information.</p>




**Synchronization** – This option is available if you are logged in to an OCEAView Cloud or On-premises solution account, enabling you to upload information from your data loggers to your online account.

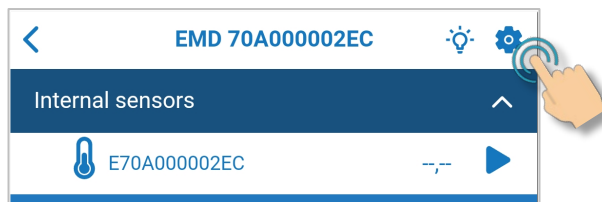
## 2.2 Miscellaneous settings

OCEAVIEW Mobile has several general features that apply to an individual data logger:

- Device name, battery level & reset, and firmware information
- A listing of recorded system events
- **Smart Sleep**, which enables you to turn Bluetooth connectivity off under certain conditions.


To access these functions:

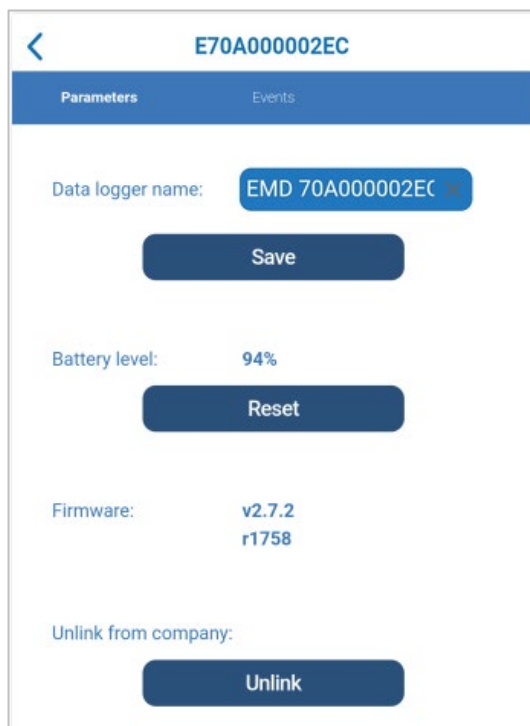
1. Press the data logger name or serial number in the **Scan** screen.
2. Press the Settings icon (  ) in the upper right corner:



*Accessing data logger settings*


### 2.2.1 Parameters

 → **Parameters:** The first tab opens as shown below:



*Data logger parameters tab*

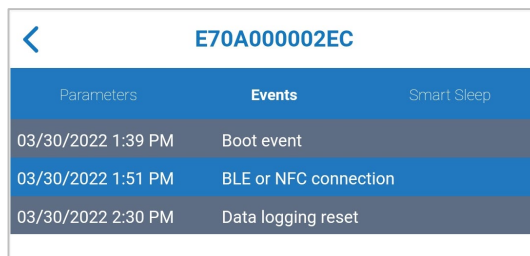
The options here are:

<b>Data logger name</b>	Press here to change the reference name for your data logger. By default, the device's serial number is used. Press <b>Save</b> if you want to keep any changes you make.
<b>Battery level</b>	Indicates the data logger's current battery level. If you install a new battery (namely in an Emerald data logger), use the <b>Reset</b> button to reset this to 100%.
<b>Firmware</b>	For information only, indicates the firmware version currently running on the data logger.
<b>Unlink from company</b>	This option for managing the link with OCEAView may be present with some devices, depending on their status and firmware version. For advanced use only. Linked data loggers are shown like this, with a link symbol (  ).

### 2.2.2 Events (device-level)

#### → Events

Atlas, Emerald, and Cobalt X data loggers keep a detailed log of low-level system and device events of a technical nature. This list does not include data logging-related information, such as data logging session information and individual sensor readings, which are accessed via the data logging session (see section 5.3 – Data logging session events and alarms, p. 50).



E70A000002EC	
Parameters	Events
03/30/2022 1:39 PM	Boot event
03/30/2022 1:51 PM	BLE or NFC connection
03/30/2022 2:30 PM	Data logging reset

*Data logger system or device events*

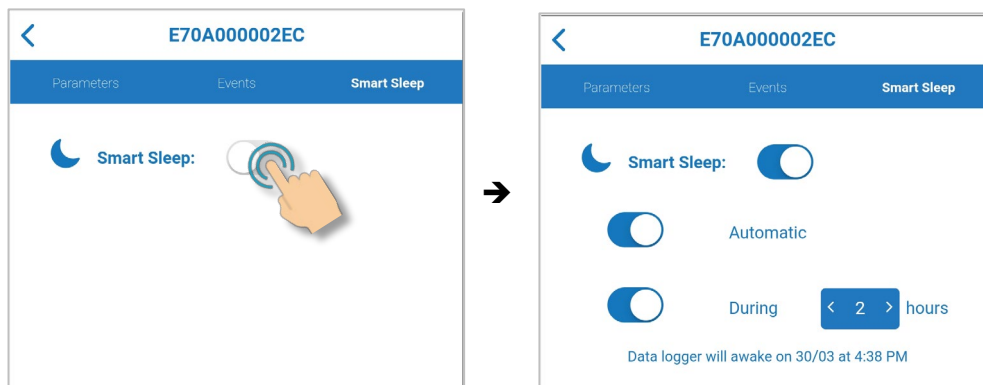
Device events	Description
<b>Battery level low</b>	Data logger battery reached an estimated 10% of its original charge
<b>Battery reset</b>	Battery counter reinitialized after a battery change
<b>BLE or NFC connection</b>	A device connected to the data logger via Bluetooth or NFC
<b>Boot event</b>	Data logger restarted

<b>Calibration changed</b>	Sensor adjustment (calibration) parameters were changed
<b>Configuration changed</b>	LoRa settings were modified
<b>Data logging reset</b>	Data logging was stopped and related information was cleared
<b>Date changed</b>	Data logger date updated by the connected phone
<b>Sensor changed</b>	Sensor was swapped on a Cobalt X

### 2.2.3 Smart Sleep

#### → Smart Sleep

OCEAVIEW Mobile's Smart Sleep function can be used to deactivate Bluetooth wireless communication under certain conditions:



*Data logger Smart Sleep functionality*



This feature is only available for Atlas and Emerald data loggers.

Note: some Atlas hardware versions do not support the "Automatic" function. In that case, the application only displays available options.

By default, Smart Sleep functionality is disabled. If you enable it by pressing the slider, several options are displayed:

#### **Automatic**

When **Automatic** is selected, Atlas and Emerald data loggers turn off their Bluetooth wireless radio upon takeoff and turn it back on upon landing.

#### **During < X > hours**

With this option, you may specify a length of time to turn the Bluetooth wireless radio off.

You may reactivate Bluetooth on an Atlas data logger by pressing the pushbutton, or on an Emerald data logger by passing the provided magnet across the device's faceplate.

## 3 Standalone (non-synchronized) data logging with Atlas & Emerald

OCEAVIEW Mobile may be used to manage standalone, non-connected monitoring with Dickson's Emerald and Atlas data loggers. In a non-connected scenario, the data logger is not associated with a company and data is not synchronized with the OCEAVIEW web platform. In this case, you can:

1. Use your mobile Android or iOS device to scan and access nearby data loggers.
2. Set up and start data logging on Atlas and Emerald data loggers.



Cobalt X data loggers can only be managed using the OCEAVIEW Cloud platform interface.

---

3. Monitor data loggers using your mobile device.

### 3.1 Prerequisites

Here are some considerations for “standalone” data logging:

- The data logger must not have already been synchronized with a company account on the OCEAVIEW Cloud platform.
- We highly recommend using the most recent firmware available for your data logger.
- Even if you have an OCEAVIEW Cloud platform account, you must not be logged in if you intend to perform non-connected data logging.



If you set up monitoring while your OCEAVIEW Mobile application is logged in to the OCEAVIEW Cloud or On-premises platform, the data logger will be associated with your company and monitoring information will be uploaded when you synchronize.

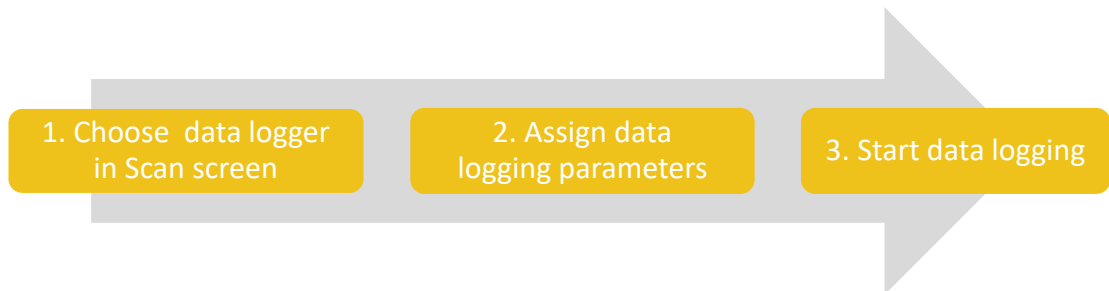
If you try to set up data logging while data logging is currently running, but started without being logged into OCEAVIEW Cloud, you will be prompted to stop the current session in order to start a new session that can be synchronized.

This functionality is described in chapter 4 – *Synchronized Atlas & Emerald data logging on OCEAVIEW platform*

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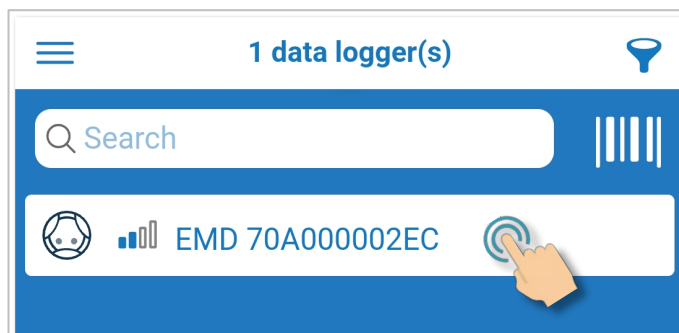
## 3.2 Starting non-synchronized data logging

This section describes how to use your mobile device to program data logging on an Atlas or Emerald data logger. The process is as follows:

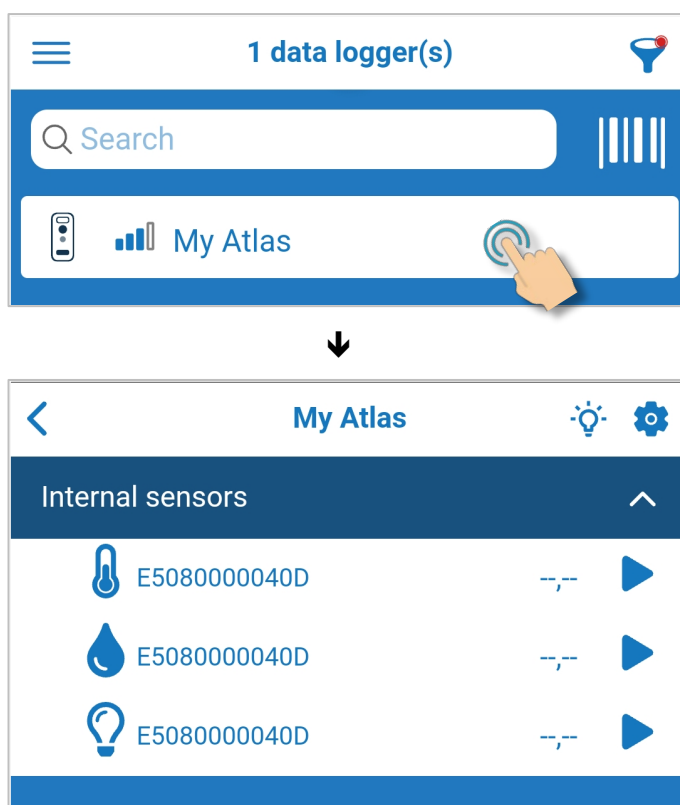


To program a data logger that is currently not being used:

1. Launch OCEAVIEW Mobile and use the Scan screen to select the data logger you want to program:
2. Press anywhere on the line containing the data logger to connect.



*Example showing an Emerald data logger with one sensor*



Example showing an Atlas data logger with its three default sensors

This screen contains several icons:



**Back** – Press to return to the previous screen.



**Settings** – Allows you to set the data logger name, check the battery level, and see the firmware version; also shows “events” and controls “Smart Sleep” feature (described in section 2.2 – [Miscellaneous settings](#)).




**Blink** – Press this button to activate the LED on the selected data logger for visual confirmation that you are working with the desired data logger.



**Instant sensor read** – Press this icon to read the sensor’s current value.




**Start** – This button takes you into the setup process to begin data logging.

3. Press play (  ) to set up data logging parameters. Start with the fields in the **General** tab:

**Template**



You may press the down arrow (  ) in the field to load an existing template, if present.





Otherwise, when you edit either of the other two fields on this screen, this icon turns from light blue to dark blue, indicating that you can save current settings as a template. If you press the icon, you will be prompted to enter a name for the template, which saves your settings for future use.

**Note:** it is generally interesting to make a template once you have completed the settings in the next step (**Alarms**). Simply return to this screen and press save when done. Templates are specific to the different types of sensors available (T°, relative humidity, or light)

Press the trash can (  ) if you want to delete the currently selected template.

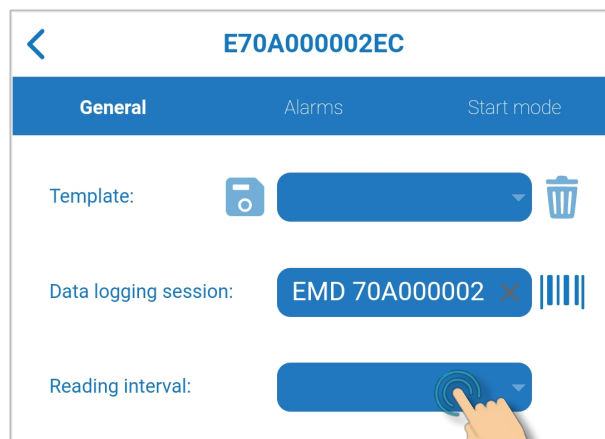
**Data logging session**

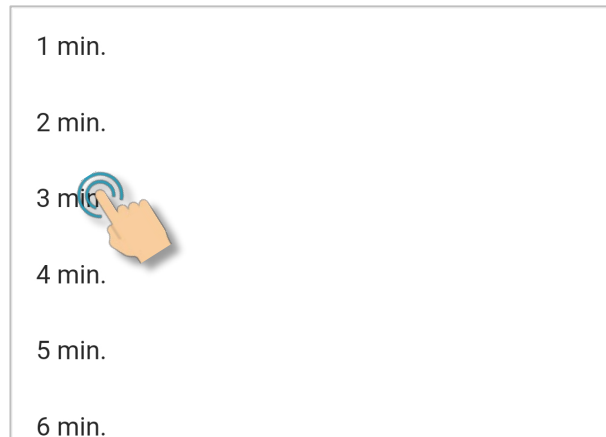
This field contains the name for your data logging session. By default, the data logger's serial number or current name is displayed in this field. You may erase the contents of this field by clicking on the  icon in the field.

If you want to use the data logger's serial number, press on the bar code icon (  ) to scan the bar code.

**Reading interval**

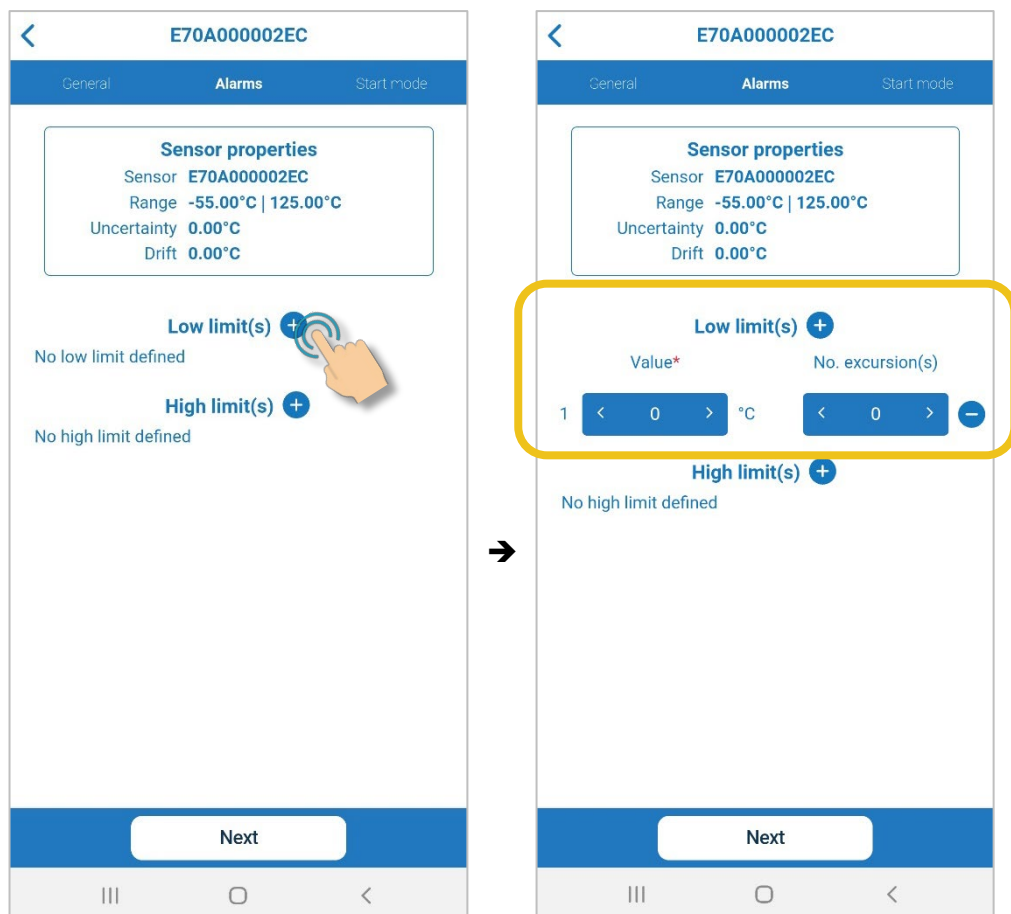
Press in this field to select how often the sensor should be read, from 1 minute to 12 hours.





Selecting the reading interval

4. Press **Next** to set high and low alarm limits. Here, you may set up to three low limits and three high limits in order to monitor a specific target range. Press **+** to add limits (or **-** to remove unwanted limits):



Programming high and low alarm limits

The following options are available for each limit:

- Value** Specifies the target high or low value(s).
- No. excursion(s)** Indicates the number of times that the sensor reading can reach that value before triggering an alarm. This allows you to introduce some tolerance to delay the alarm.
- If set to "0", an alarm is triggered as soon as the indicated limit value is read by the data logger.
- If set to 2 (for example), the limit value may be read two times without triggering an alarm. If the value is read a third time, an alarm is triggered.
- The maximum value is 200.

Here is an example with several high and low values (pre-alarms) configured to monitor temperature from 0°C to 8°C:



Starting data logging with high and low alarm limits

5. Press **Next** to set one of the following start modes:

**Immediate start** Data logging begins as soon as you press the **Start** button.


**Delayed start**


Data logging begins when you manually trigger the data logger:

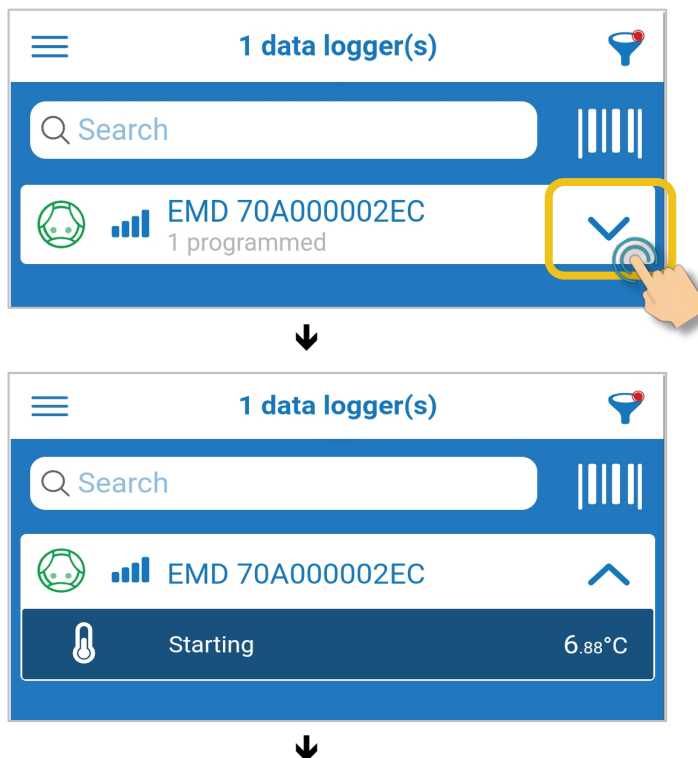
- **Atlas:** press the button on the front of the data logger.
- **Emerald:** pass the provided magnet across the top of the data logger.

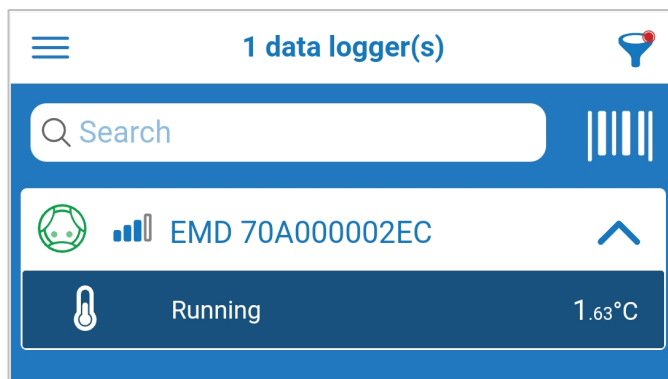


After making your selection, you may return to the **General** tab if you want to save these settings as a template for future use. Then come back to this tab to press **Start**.

6. Press Start to begin data logging (which displays a summary of your reading settings) or to wait for it to be triggered later.
7. Press **Back** (  ) to return to the previous screen.

**Note:** until data logging has started, the sensor's status is first shown as "Starting" in the Scan screen, then "Running" as shown below. Press the down arrow (  ) for quick access to the latest status.





*Progression of sensor status while starting*

## 4 Synchronized Atlas & Emerald data logging on OCEAView platform

OCEAView Mobile is fully integrated with the OCEAView platform, enabling connected mobile application users to upload Atlas and Emerald data logger information to their Cloud or On-premises system.



This section describes the OCEAView Mobile features that are activated when your mobile application is connected to the OCEAView platform. The process for setting up data logging for Atlas and Emerald data loggers, is strictly identical to that presented in the previous chapter.

The following features are available when OCEAView Mobile is connected:

1. Full control over Atlas and Emerald data loggers, including starting and stopping data logging (just as with non-connected mode).
2. The ability to add new Atlas and Emerald data loggers to your OCEAView system, and assign them to a specific piece of equipment in an existing node in the organization.
3. Read Atlas, Emerald, and Cobalt X data loggers from a mobile device.
4. Synchronize Atlas and Emerald data with OCEAView (Cobalt X data loggers may not be controlled from the mobile app).

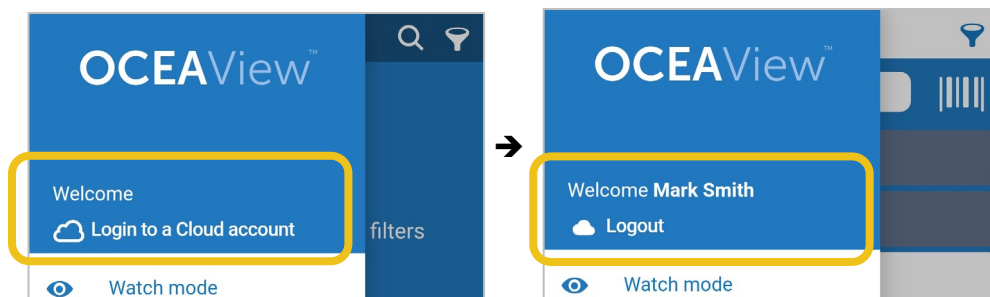


To synchronize, you must allow access from OCEAView mobile users in the OCEAView application (**Configuration** → **Security** section).

### 4.1 Logging into to your OCEAView web platform

To benefit from synchronization features, you must log in to the OCEAView platform –either a Cloud or On-premises solution – within the OCEAView Mobile application.

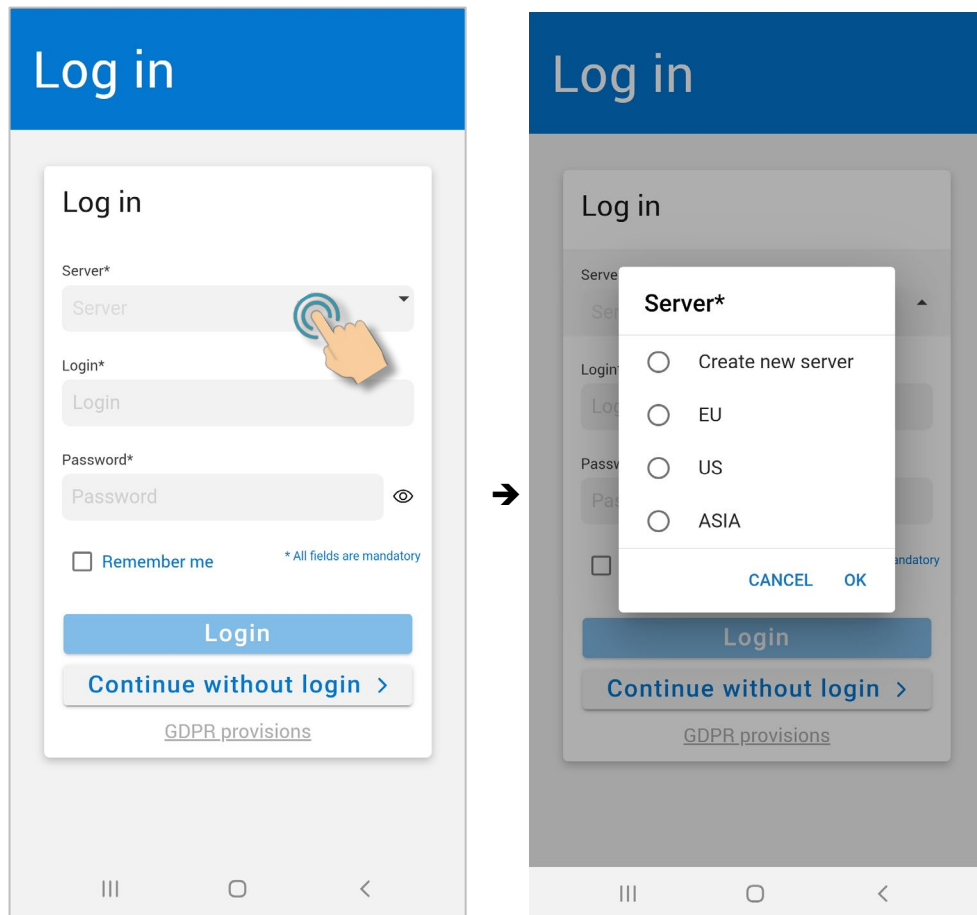
When you open the main menu, you can see whether or not you are connected:



*Logging in to your OCEAView Cloud account*

To log in to your Web platform:

1. Press **Login to a Cloud account** → **Server**



*Choosing your OCEAView Cloud server*

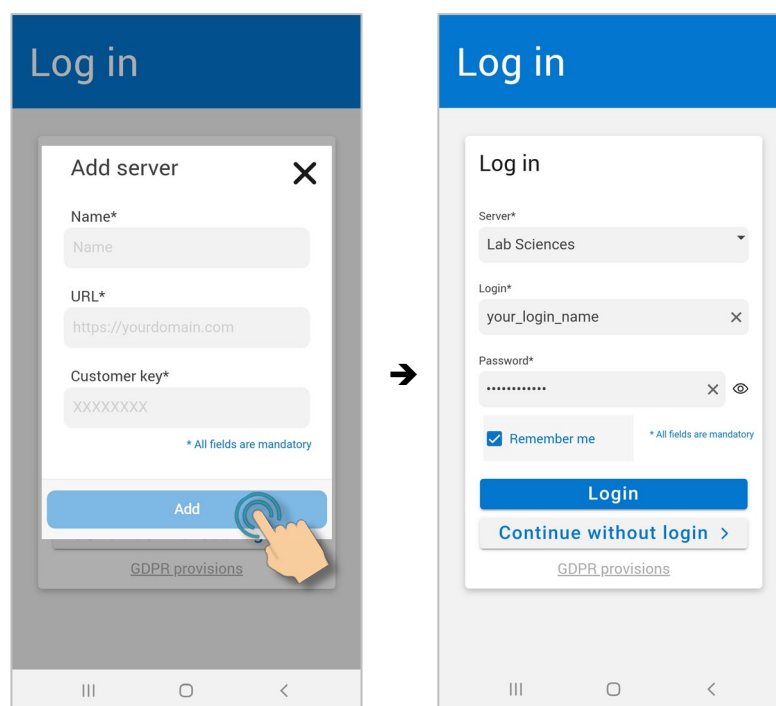
2. In the **Server** field, select one of the following according to your server location:

**If you use a Cloud-based OCEAView solution**

- Choose the region in which your datacenter is located: **EU** (Europe), **US** (United States), or **ASIA**.
- It is essential to choose the region where your data center is physically located, regardless of your own location.
- Press **OK** when done.

**If you use an On-premises OCEAView solution**

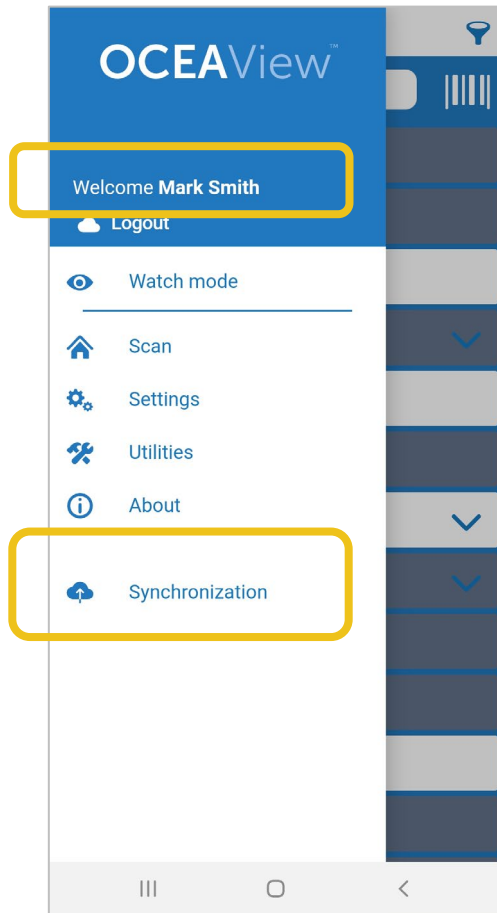
- If the server name is present, press to select it then press on **OK**.
- If this is the first time you are connecting, press on **Create new server** → **OK**.



*Adding an On-premises OCEAView server*

- Enter a reference name for the server in the **Name** field.
  - Enter the exact **URL** for your on-premises system, for example `https://yourserver.yourdomain.com` (remember to include the prefix "https://").
  - Enter the **Customer key** for your system (provided with your system).
  - Press **Add** when done. If the information is accurate and the connection is available, the server is added to the pull-down menu.
- Note:** if this operation is not successful, check the URL, make sure you have a network connection (WiFi or cellular) to the system, and try again. If the problem persists, please contact Technical Support.
- The new server is selected automatically for the next step. Otherwise, select the server from the pull-down menu and press **OK**.
3. Enter your regular OCEAView Cloud platform **Login** name and **Password**, then press **Login**.

4. With successful login, the following items are now present in the menu:
  - o Your OCEAView Cloud platform user name.
  - o The **Synchronization** menu item, which enables you to collect sensor data and push it to the OCEAView Cloud platform for viewing and other actions.



*Synchronization button displayed in menu when logged in*

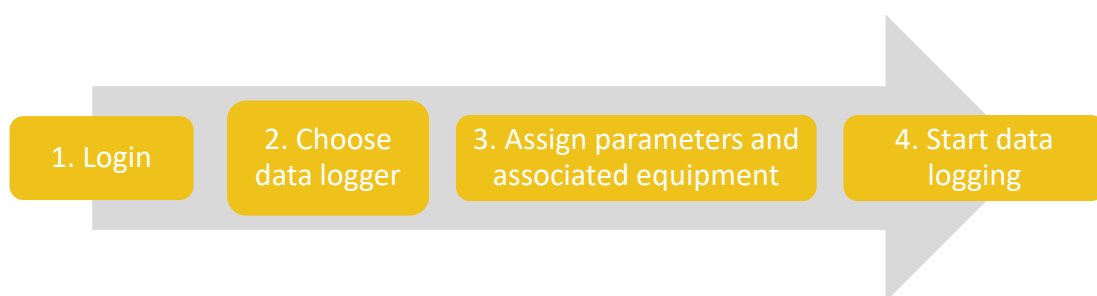
## 4.2 Starting synchronized data logging

*Note: the instructions provided in this section contain notions that assume you have good working knowledge about the OCEAView Cloud platform.*

The procedure for starting data logging with synchronized and non-synchronized data loggers is identical, except for two aspects:

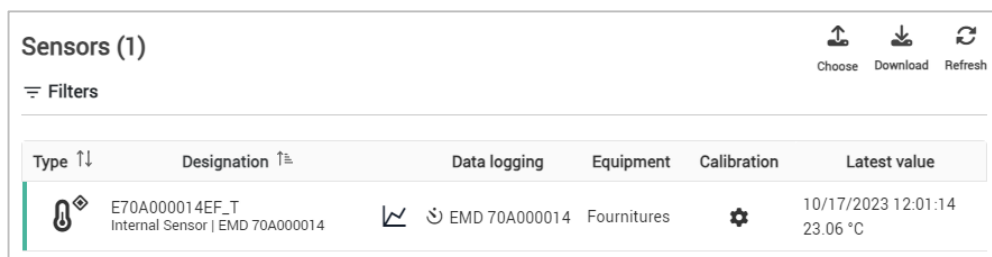
1. You must assign the data logger to specific equipment in your OCEAView Cloud solution.
2. You will have the option to synchronize (upload) data logger information and readings from your mobile device to the OCEAView Cloud platform at any time.

The process is as follows:




To program a data logger to be synchronized with the OCEAView Cloud platform:

1. Open OCEAView Mobile and log in to your OCEAView Cloud platform as described in the previous section.
2. Remember to activate Bluetooth by pressing the button on an Atlas data logger, or by passing the magnet over an Emerald data logger if necessary. Bluetooth remains active for one minute when you do this.
3. In the mobile app's **Scan** screen, find and press on the Atlas or Emerald data logger you want to program.
4. Press the start icon (▶).
5. Choose the Organization, then press **Submit**. If the data logger has never been synchronized, then it is added to the selected Organization (which you may change later if necessary). Press **OK** to confirm. The data logger is now visible in the OCEAView Cloud platform:



*Data logger displayed in OCEAView Cloud*

6. As described in chapter 3 – *Standalone (non-synchronized) data logging*, you may then:
  - Open a **Template** (if available) containing data logging settings.
  - Assign a reference name for this **Data logging session**.
  - Set the **Reading interval** using the pull-down menu.
7. You must then confirm the data logger's assignment to a specific piece of equipment in your **Organization** using the **Equipment** field:
8. Press on **Equipment** → Choose the organization containing the equipment (as configured in the OCEAView web application) → **Next** → Choose the equipment to be monitored with this data logger → **Next**.
9. Program the **High and low alarm limits** and **Start mode** as described in chapter 3 – *Standalone (non-synchronized) data logging*.
10. Press **Start** to synchronize these settings and begin data logging as programmed.
11. Press the back arrow at the top of the screen (  ) to return to the previous screen when done.

## 4.3 Synchronizing data loggers

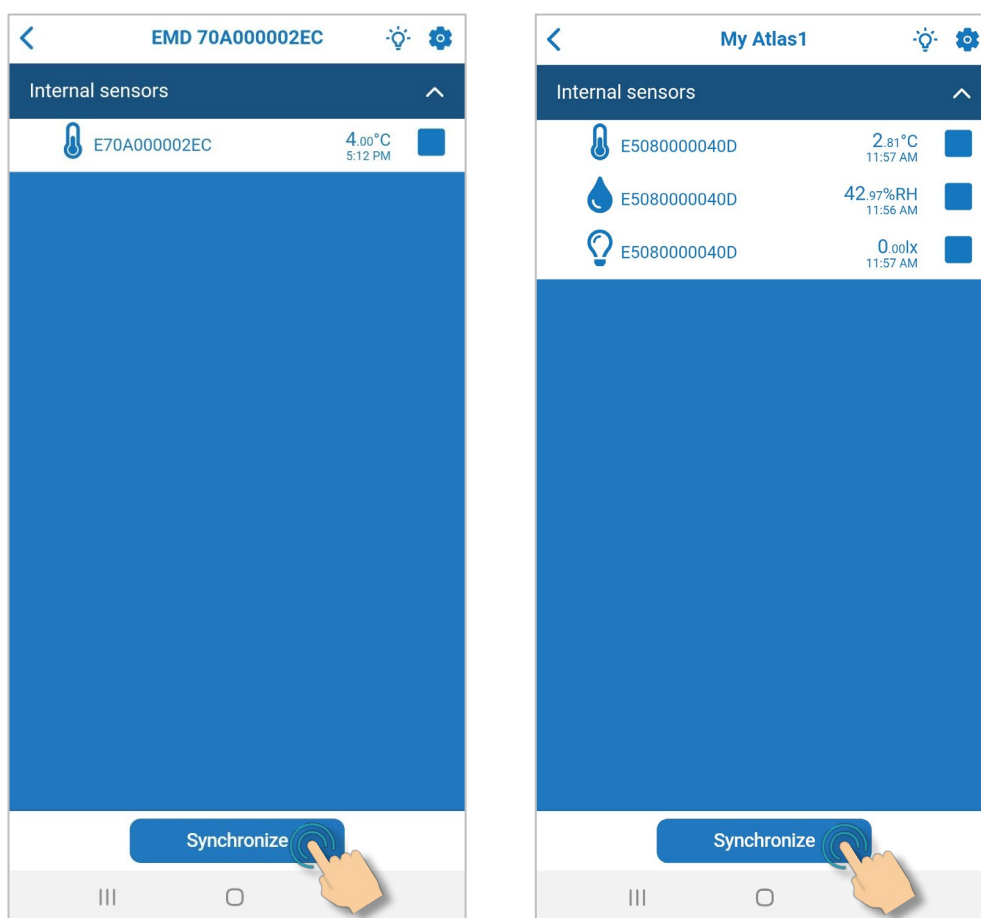
When data logging is running, you may push the data logger's latest readings and other information to the OCEAVIEW Cloud platform.



Your OCEAVIEW Mobile application must be logged in to perform synchronization, and the option **Security → Mobile application access** must be activated (set to **Yes**) in your OCEAVIEW Cloud platform.

To do this:

1. In the **Scan** screen, select the data logger you want to synchronize.
2. Press the **Synchronize** button, as shown in these examples.



*Synchronizing Emerald (left) or Atlas (right) data loggers*


In the left-hand screen, the Emerald data logger's temperature sensor will be synchronized. In the right-hand screen all three of the Atlas data logger's active sensors will be synchronized. You may also synchronize sensors individually as described in Chapter 5 – *Common features*.

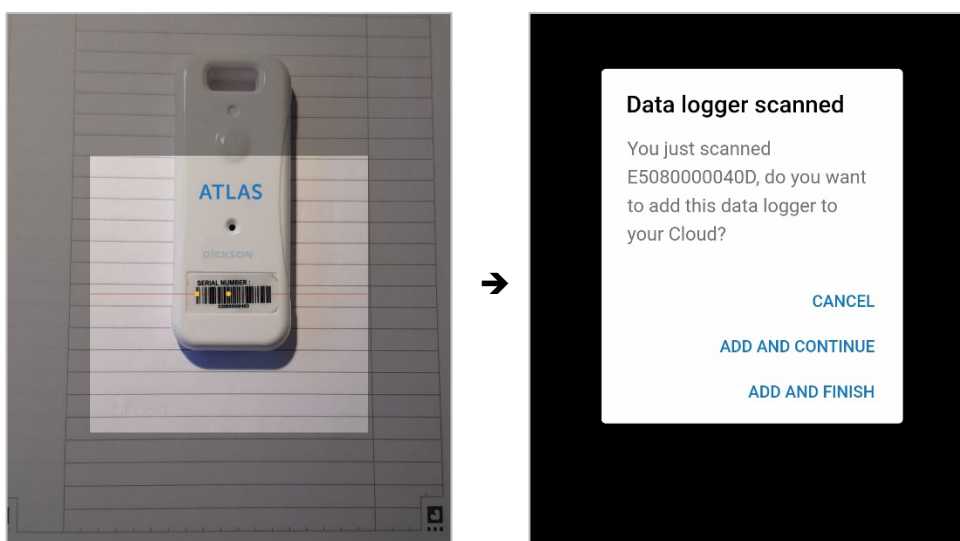
## 4.4 Adding a data logger without starting data logging

When OCEAVIEW Mobile is connected with the OCEAVIEW Cloud platform (when your username is logged in within OCEAVIEW Mobile), you may add Atlas and Emerald data loggers to your system without starting data logging. Cobalt X data loggers running in Bluetooth mode must be added via the OCEAVIEW Cloud platform, unless they were previously configured using LoRaWAN connectivity.

You may add Atlas and Emerald data loggers on-the-fly as you program them (described above in section 4.2 – [Starting synchronized data logging](#)), or add data loggers independently to prepare them for subsequent data logging sessions, notably assigning them to specific equipment in your organization.

**To add a data logger to your system without starting data logging:**

1. Make sure that:
  - o Your OCEAVIEW Mobile application is connected to your Cloud or On-premises server as described in section 4.1 – [Logging into to your OCEAVIEW web platform](#).
  - o Your mobile device is connected to the Internet for Cloud access or your network for On-premises access.
  - o The option **Security → Mobile application access** is activated (set to **Yes**) in your OCEAVIEW Cloud platform.
2. Activate the Atlas data logger with a long button press, or Emerald data logger by passing the magnet across the top of the data logger. The LED blinks blue to indicate that Bluetooth is activated.
3. Press the menu icon  or swipe the screen to the right to open the menu.
4. Press **Utilities → Add data loggers** and allow the application to take pictures if prompted (OCEAVIEW can use your device's camera to scan a data logger's bar code).
5. Use the bar code scanner to scan the serial number of your data logger.



*Scanning the bar code to add a data logger*

6. When the serial number is recognized, you may press on:

- Cancel**                      The application returns to the bar code scanner without making any changes.
- Add and continue**      The application adds the data logger to the OCEAView Cloud platform and reopens the bar code scanner to repeat the process.
- Add and finish**         The application adds the data logger and returns to the Utilities menu.

Here is an example of a data logger added to the connected OCEAView Cloud platform:

Type ↑↓	Designation ↑↕	Serial number ↑↓	Version	Sensors ↑↓	Last activity ↑↓	🔋 ↑↓
Atlas 2	E508000004...	E5080000040D	2.3.3	0		🔋

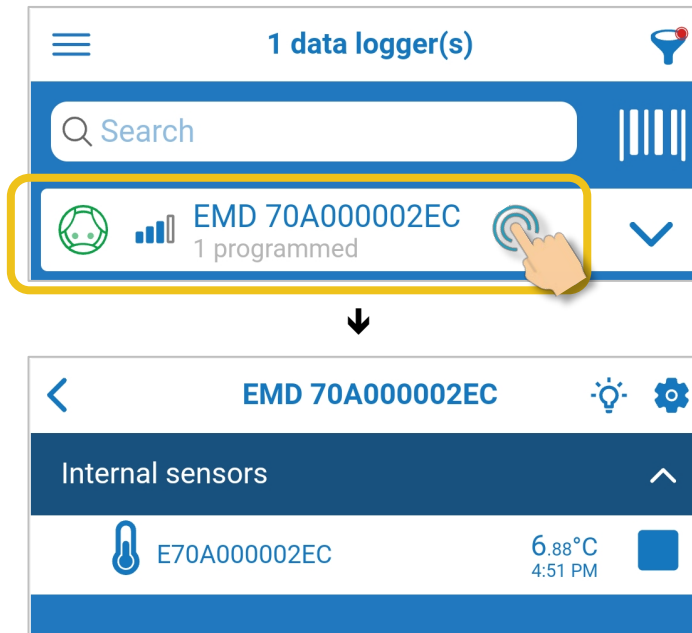
*Atlas data logger displayed in OCEAView Cloud after being added*

## 5 Common features

Whether or not your mobile application is connected to the OCEAView Cloud platform, you may access a variety of features to view and manage your data when data logging is running.




To access data and other features:

1. In the **Scan** screen, press anywhere (to the left of the down arrow) on the line containing the data logger.



*Accessing data logging details and other features*


2. There are several possibilities here:



- |   |   |
|---|---|
|  <span style="font-size: 1.2em;">E70A000002EC</span> | <p>Press the sensor name or serial number to go further into data logging details, notably for graphs, current parameters, map position, and reports.</p> |
| <span style="font-size: 1.2em;">6.88°C</span><br><span style="font-size: 0.9em;">4:51 PM</span>   | <p>Press the current sensor reading for an on-demand read.</p>  |
|    | <p>Press the Stop button to stop data logging (described in section <a href="#">5.6 – Stopping data logging</a>).</p>                                     |
|    | <p>Press the left arrow to return to the previous screen.</p>   |

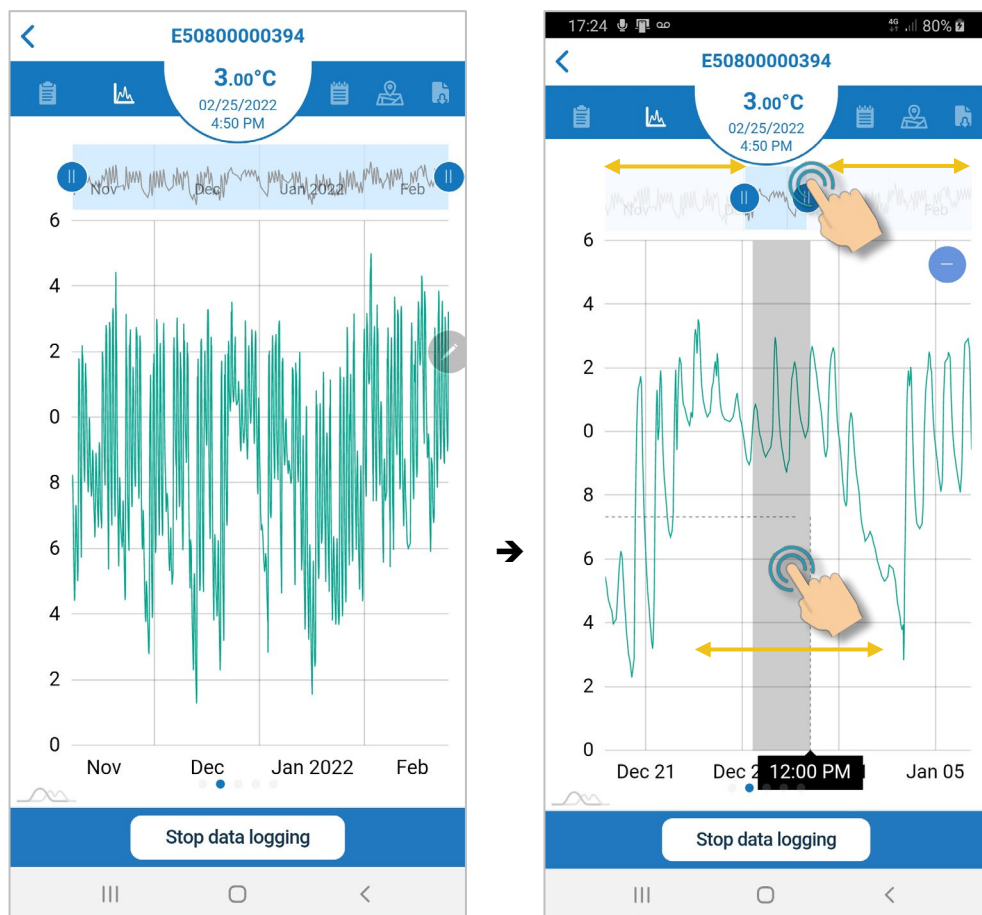
## 5.1 Graph view

To display a detailed graph of your sensor readings:

1. Press the data logger name or serial number in the **Scan** screen, then press the sensor name or serial number.

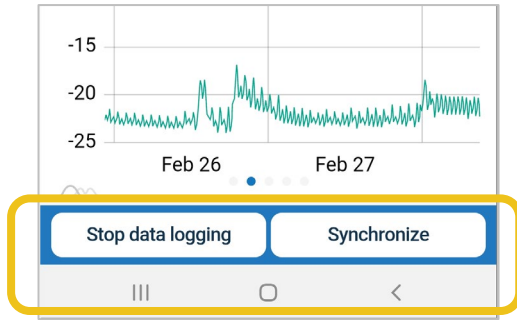
Note: you may also press the down arrow (  ) for a data logger in the scan screen to unfold the sensor display pane, then press on a sensor to access details.

2. The graph tab (  ) opens as shown below on the left, displaying the entire data logging session. To zoom in on a specific date range, you may move the sliders (  ) right and left, or swipe with your finger on the graph to select a range:



*Data logging graph screen*

If your data logging session is synchronized with the OCEAView Cloud platform, the **Synchronize** button is displayed at the bottom of the screen.

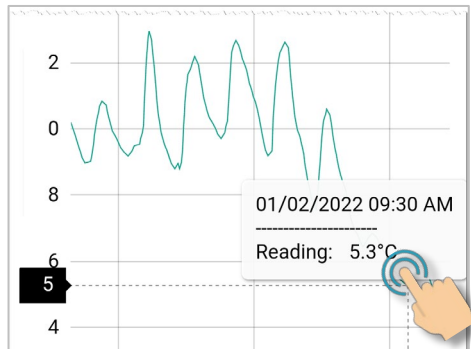


*Buttons at the bottom of the screen*


Press on **Synchronize** to synchronize the data logger and upload information to your OCEAView Cloud platform.

Please see section [5.6 – Stopping data logging](#) for more information about stopping data logging.

3. You may click on any point on the graph to see reading details at that point.




*Viewing sensor details at a specific point on the graph*


4. Press on  to restore the full graph.

## 5.2 Summary of settings and conditions

To see detailed information about the current data logging session:

1. Press the data logger name or serial number in the **Scan** screen, then press the sensor name or serial number.

You may also press the down arrow (  ) on a data logger in the scan screen to unfold the sensor display pane, then press on a sensor to access details.

2. Press on the Details tab (  ) icon, which opens the screen shown below, with two sections (swipe the screen up and down if necessary):
  - **Reading settings** (shown on the left)
  - **Conditions** (shown on the right)



*Complete details about the current data logging session*

- This screen shows complete details about the current data logging session.

The following options are present:


**Stop data logging** Press this button to stop the current data logging session (more details are provided in section [5.6 – Stopping data logging](#)).


**Synchronize** This button is present if you are logged in to your OCEAVIEW Cloud platform (in OCEAVIEW Mobile). Press to synchronize the data logger and upload information.

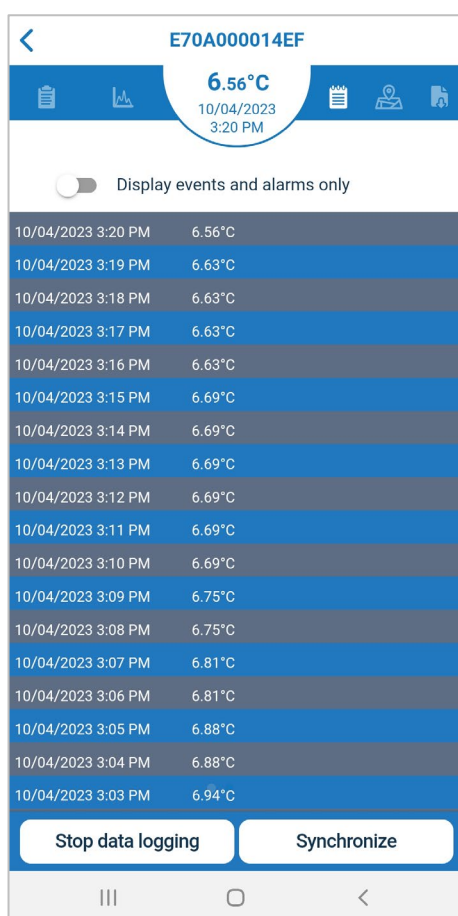
## 5.3 Data logging session events and alarms

To see detailed information about the current data logging session:

- Press the data logger name or serial number in the **Scan** screen, then press the sensor name or serial number.

Or you may press the down arrow (  ) on a data logger to unfold the sensor display pane, then press on a sensor to access details.

- Press the details tab (  ) to open the list of all readings, events, and alarms since data logging started, with the most recent information displayed first:



*Complete list of events that have occurred during data logging*

The following functions are present on this screen:

<b>Display events and alarms only</b>	Press this slider to hide sensor readings.
<b>Stop data logging</b>	Press to stop the current data logging session (more details are provided in section <a href="#">5.6 – Stopping data logging</a> ).
<b>Synchronize</b>	This button is present if you are logged in to your OCEAView Cloud platform (in OCEAView Mobile). Press to synchronize the data logger and upload information.

This includes all the device-level events described earlier (in section 2.2.2):

Device events	Description
<b>Battery level low</b>	Data logger battery reached an estimated 10% of its original charge
<b>Battery reset</b>	Battery counter reinitialized after a battery change
<b>BLE or NFC connection</b>	A device connected to the data logger via Bluetooth or NFC
<b>Boot event</b>	Data logger restarted
<b>Calibration changed</b>	Sensor adjustment (calibration) parameters were changed
<b>Configuration changed</b>	LoRa settings were modified
<b>Data logging reset</b>	Data logging was stopped and related information was cleared from local memory
<b>Date changed</b>	Data logger date updated by the connected phone
<b>Sensor changed</b>	Sensor was swapped on a Cobalt X

It also includes events and information related to the current data logging session:

Data logging session events	Description
<b>Alarm start</b>	The beginning of an alarm state
<b>Alarm stop</b>	The end of an alarm state
<b>Warning start</b>	[Cobalt X only] The beginning of a warning state
<b>Warning stop</b>	[Cobalt X only] The end of a warning state
<b>Alarm paused</b>	[Cobalt X only] The beginning of an alarm/warning pause initiated via the Cobalt X touchscreen

<b>End of alarm pause</b>	[Cobalt X only] The end of the alarm/warning pause, either manually or after selected duration
<b>Data logging started</b>	The data logger began recording sensor readings
<b>Data logging stopped</b>	The data logger stopped recording sensor readings
<b>Programming data logging</b>	The data logger was programmed, but not started
<b>Sensor plugged</b>	A sensor was plugged into a Cobalt X
<b>Sensor unplugged</b>	A sensor was unplugged from a Cobalt X
<b>Unexpected stop</b>	An error occurred and data logging stopped
<b>Update</b>	Settings were changed in the current data logging session


## 5.4 Map position

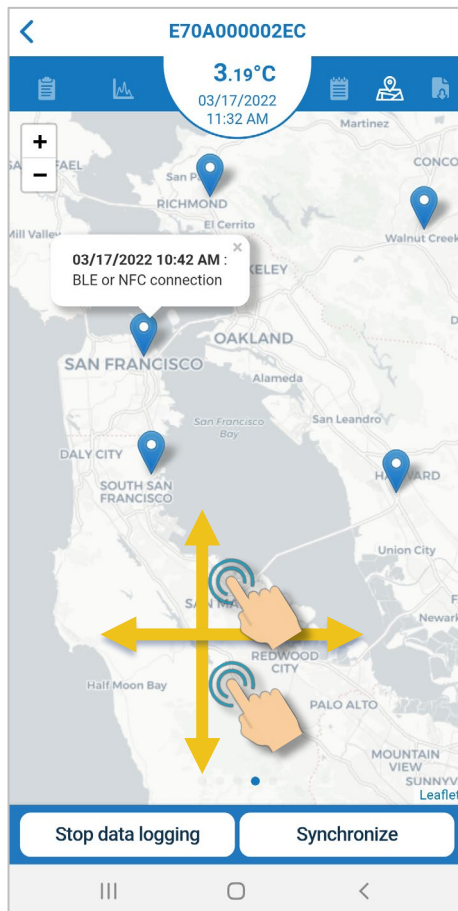
Whenever you access the data logger from OCEAView Mobile, the GPS coordinates are recorded with a date-time stamp. You may see all the locations at which the data logger was read (whether or not data was synchronized).

To see location information about the current data logging session:

1. Press the data logger name or serial number in the **Scan** screen, then press the sensor name or serial number.

Or you may press the down arrow (  ) for a data logger in the scan screen to unfold the sensor display pane, then press on a sensor.

2. Press the map tab (  ):



*Use two fingers to move around the map*

Press with two fingers and swipe to move around within the map. The following options are present:

**Stop data logging** Press to stop the data logging session (more details are provided in section [5.6 – Stopping data logging](#)).

**Synchronize** This button is present if you are logged in to your OCEAView Cloud platform (in OCEAView Mobile). Press to synchronize the data logger and upload information.

## 5.5 Reports and exports

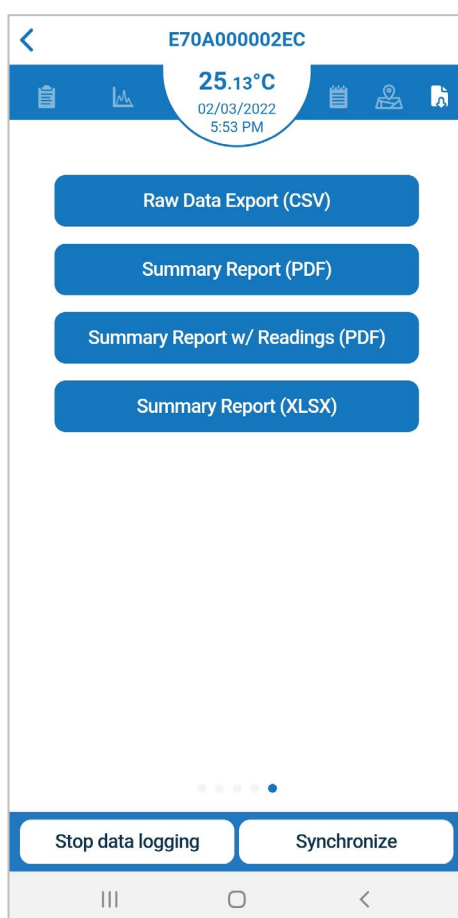
When data logging is running, you may generate and send reports containing all sensor readings and relevant information.

To access and send reports:

1. Press the data logger name or serial number in the **Scan** screen, then press the sensor name or serial number.

Or you may press the down arrow (  ) for a data logger in the scan screen to unfold the sensor display pane, then press on a sensor.

2. Press the export/report tab (  ):



### *Generating and sending data logging reports*

The following report options are present:

#### **Raw Data Export (CSV)**

Prepares all recorded data in a CSV file format with date/time stamp, sensor reading, unit (F° or C°), and status.

#### **Summary Report (PDF)**

Prepares a report in PDF format containing a summary of alarms, data logging settings, readings (minimum, maximum, average, standard deviation,

activation energy, kinetic temperature), and a graph.

**Summary Report w/ Readings (PDF)**

Prepares a report just like the previous one, along with complete sensor readings.

**Summary Report (XLS)**

Prepares a report in MS Excel format, with several tabs (Events & Readings, Readings, Alarms).

3. Choose the desired format to send the report using the application of your choice. Your smartphone will show the available third-party applications you can use to send the file, such as e-mail, WhatsApp®, Google Drive®, etc. Results may vary depending on the application you choose.

General function buttons also on this screen:

**Stop data logging**

Press to stop the current data logging session (more details are provided in section [5.6 – Stopping data logging](#)).

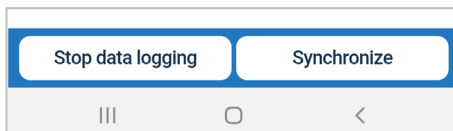
**Synchronize**

This button is present if you are logged in to your OCEAView Cloud platform (in OCEAView Mobile). Press to synchronize the data logger and upload information.

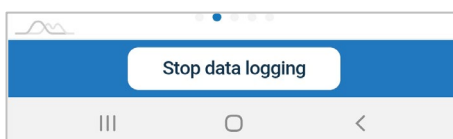
## 5.6 Stopping data logging

When data logging is running, you will see the button to stop data logging in all the details screens described in the previous sections.

If your application is logged in to the OCEAView Cloud platform:



If your application is not logged in to the OCEAView Cloud platform:



Also, when you press the sensor name or serial number in the scan list, you will see the stop icon (■):



*Places in the application to stop data logging*

### To stop data logging:

1. Press the **Stop data logging** button or icon and press **OK** to confirm that you want to continue. Otherwise, press **Cancel**.

The app connects to the data logger and either:

- If logged in – downloads the latest data to your mobile device and synchronizes with the web platform.
- Or, if not logged in – downloads the latest data to your mobile device.

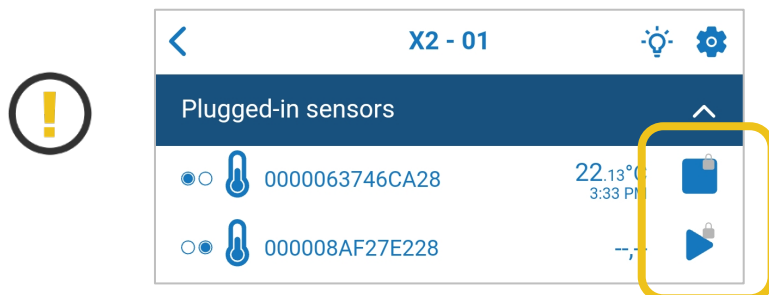
2. The stop icon (■) becomes a trash can (🗑️).

This indicates that the data is still stored locally. You may still access it in the Events, Graph, Map, and Reports screens.

Note: In those screens, the **Stop data logging** button becomes a **Reset** button. The data may still be synchronized with the web application if the app is logged in.

3. Press the trash can (🗑️) or **Reset** if you want to completely clear all the data.

You cannot use OCEAVIEW Mobile to stop or start data logging on Cobalt X devices. A small gray padlock is displayed on the stop and start icons, as shown here:



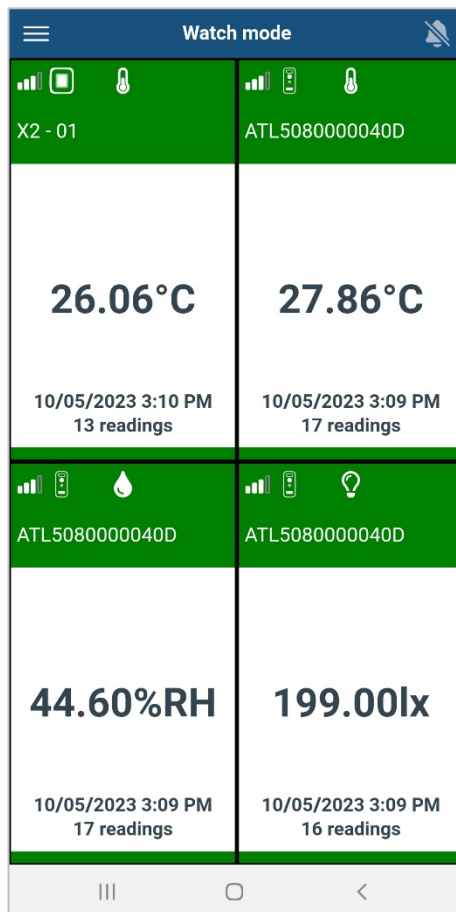
## 6 Watch mode

OCEAVIEW Mobile's Watch mode feature enables you to keep an eye on data loggers continually on your mobile device's screen. From your smartphone, you can easily monitor whether limits are exceeded, and access further details for any given data logger, or view and download reports.



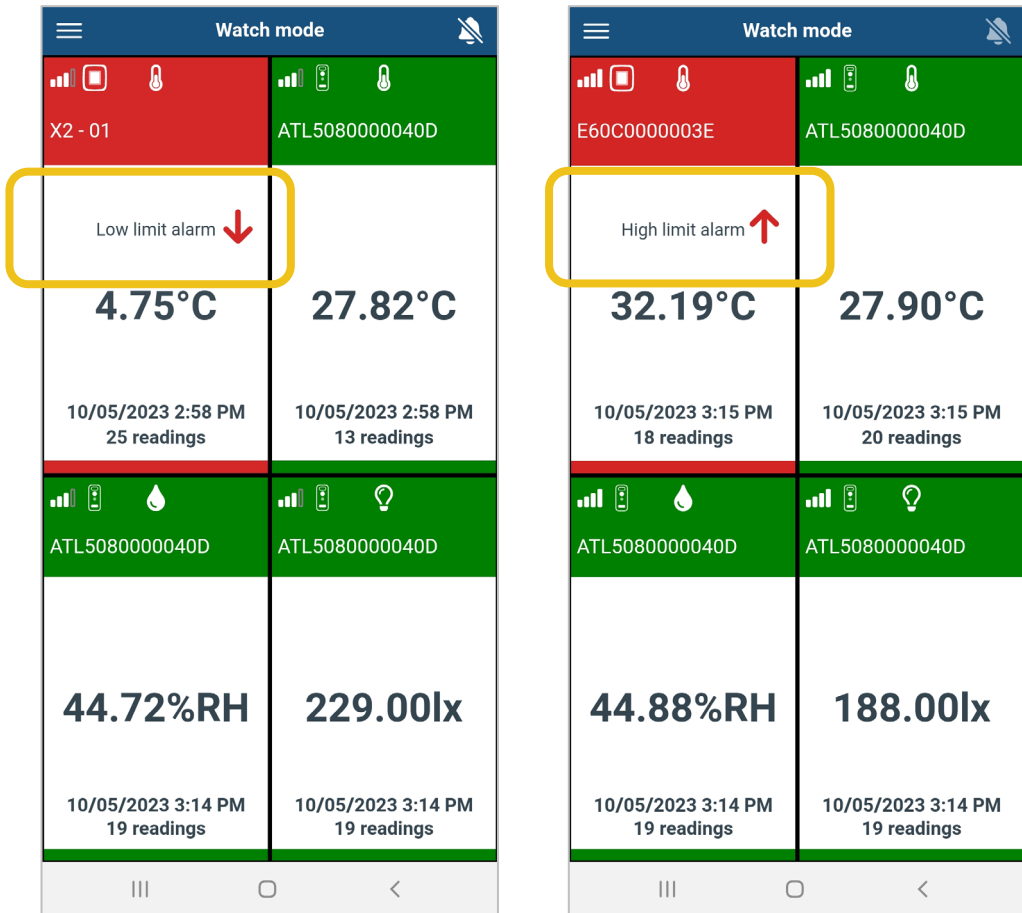
We recommend that you use OCEAVIEW Mobile as the "foreground" application, that is, not running it minimized or in the background on your mobile device.

For example, this screen shows data loggers without any technical alarms, limit alarms, or warnings in the Watch mode screen:



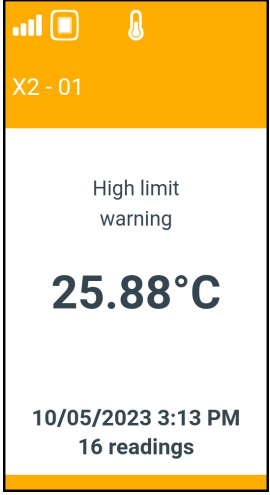
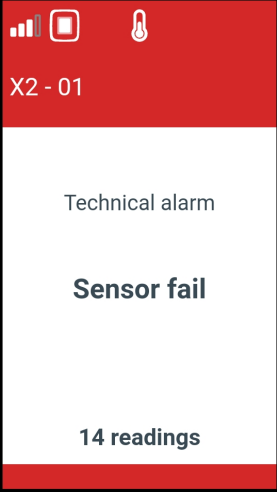
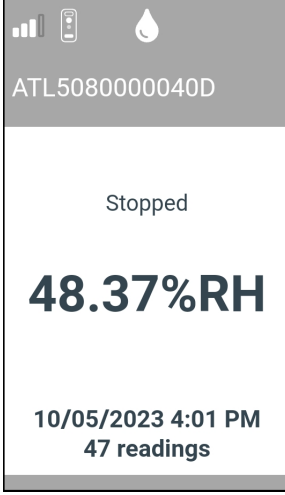
*Watch mode display*

If an excursion occurs when high or low limits are programmed, the thumbnail in the Watch mode display turns red:



*Watch mode display with high and low limit alarms*

Other cases:

<p>[Cobalt X only] Cobalt X data loggers with a high or low limit warning are displayed in orange:</p> 	<p>Data loggers with a technical alarm are displayed in red:</p> 	<p>Stopped data loggers that have not been reset are displayed in gray:</p> 
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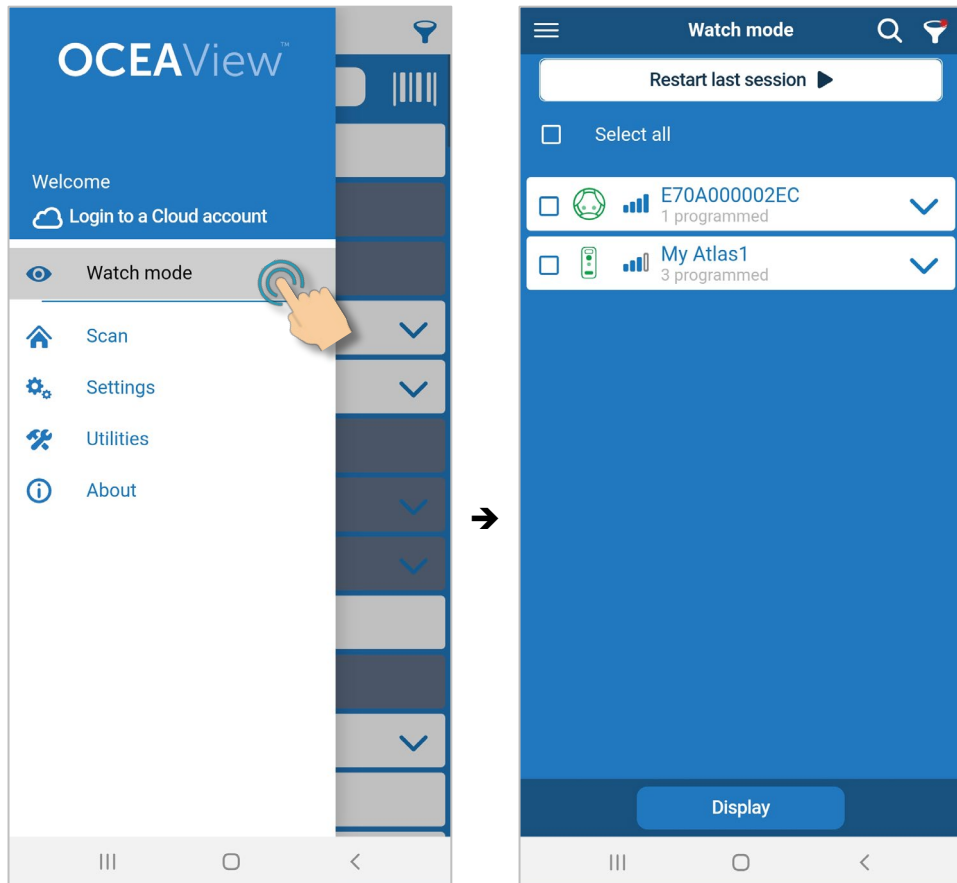
## 6.1 Using Watch mode



Before using Watch mode, you must first start data logging on your data loggers.

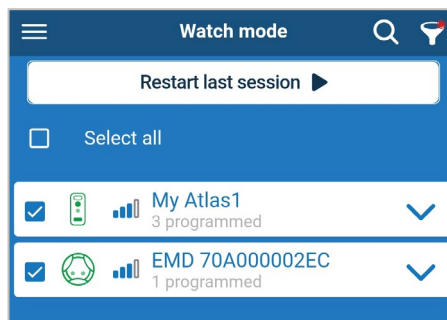
To start monitoring with **Watch mode**:

1. Open the menu and select **Watch mode** to see available data loggers:



*Launching Watch mode*

2. Press to select each checkbox  for the data loggers you want to display:



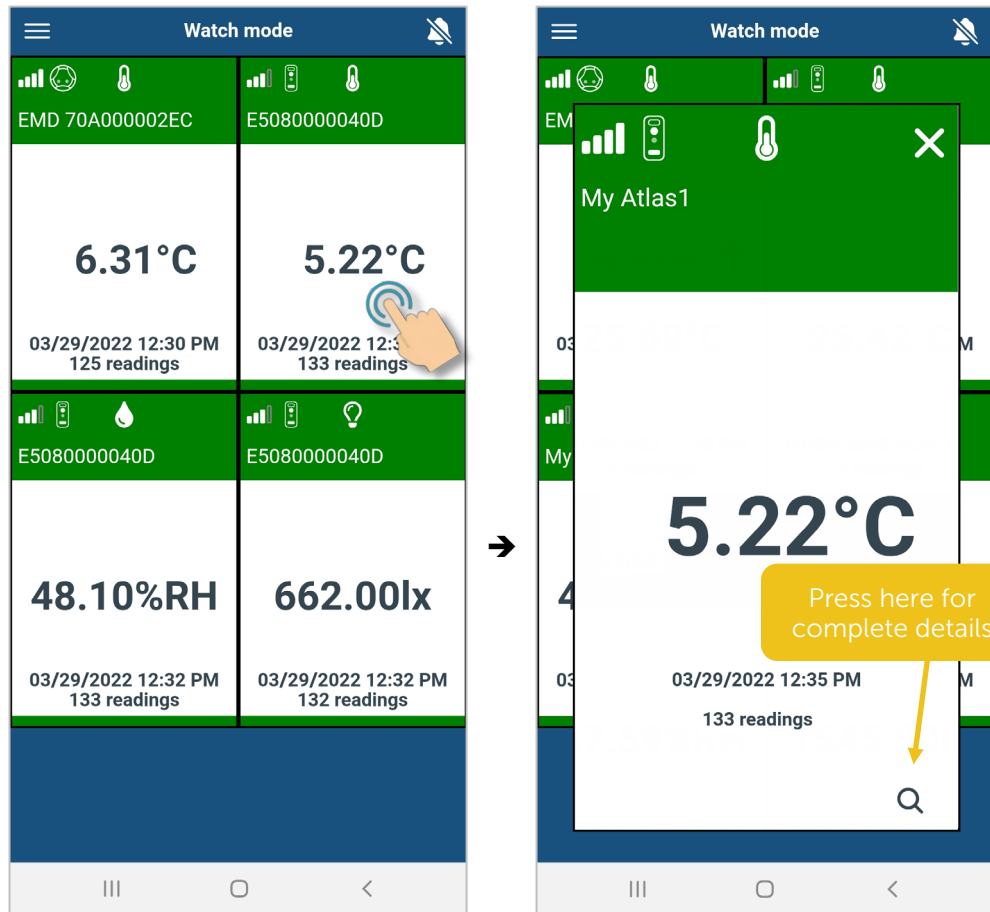
*Selecting data loggers to monitor*

Here, you may:

- Click on **Select All** to select all listed data loggers, or use the bar code scanner or filter options.
- Click on **Restart last session** to resume the previous Watch mode session (if there was one).

3. Press **Display**.

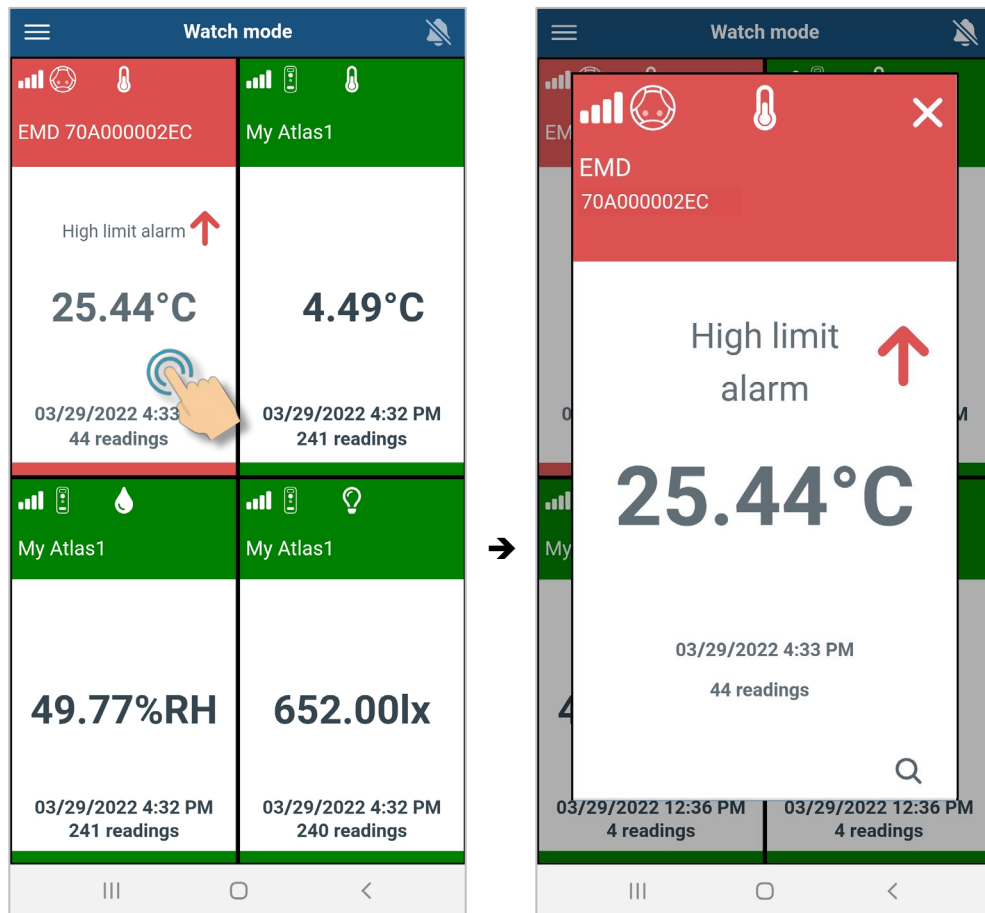
4. The **Watch mode** screen opens with a thumbnail display of your data logging sessions.




*Press a thumbnail to access more details*

You may press on any thumbnail to open a larger view, and then press on the magnifying glass to access full details as described earlier and/or to synchronize the data with the OCEAView Cloud application, if connected.

If a data logger has detected an excursion with respect to programmed limits, the thumbnail is red (for a high limit) or blue (for a low limit), for example:

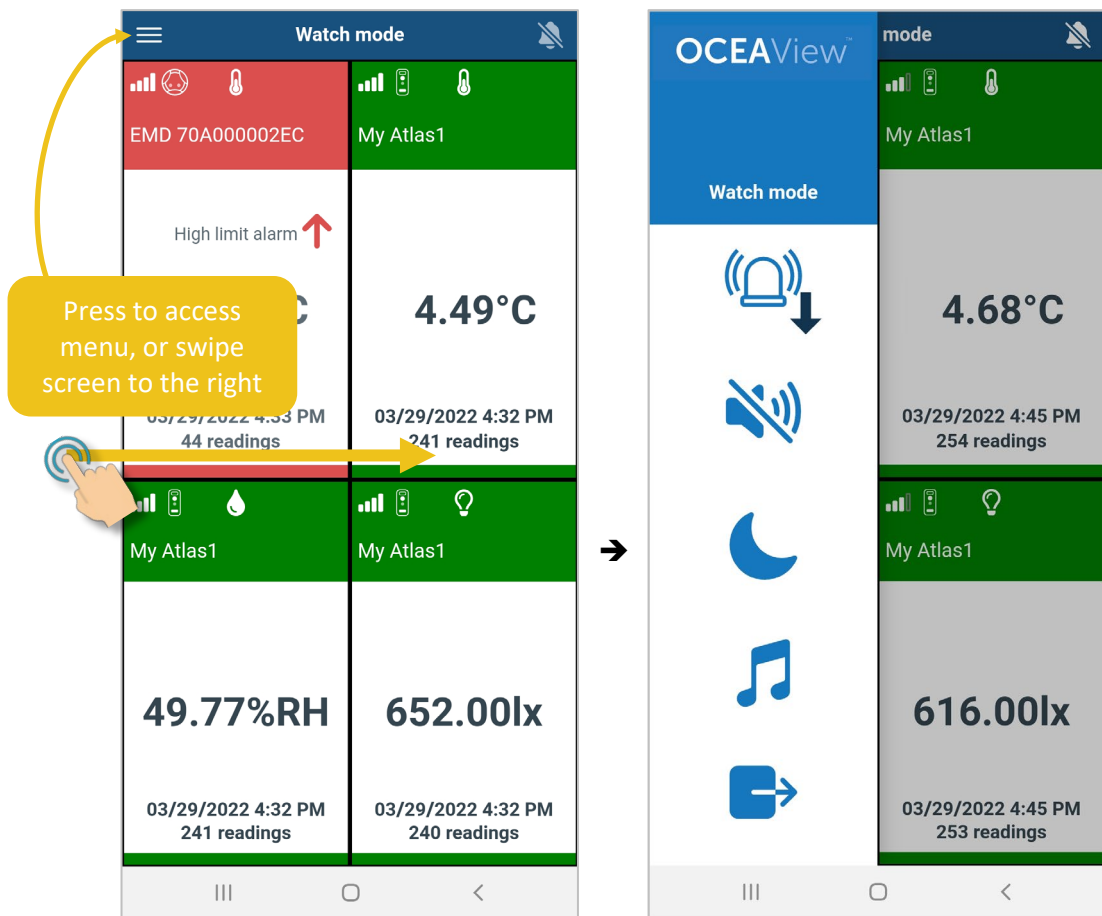


Example showing a data logger with a high limit alarm

To turn the alarm sound completely off, you may press the alarm icon in the upper right-hand corner of the screen (  ).






## 6.2 Watch mode menu

Because of its dedicated monitoring function, Watch mode has a menu of its own, as shown here:



*Accessing the watch mode menu*

The icons in the menu bar are as follows:

	Sorts the display either (a) with alarms listed at the top, or (b) in alphabetical order.
	Cycles between three different volume levels.
	Changes the screen colors so that they are less bright.
	Cycles between the different available alarm sounds.
	Exits Watch mode and returns selection screen.

## 7 Advanced features

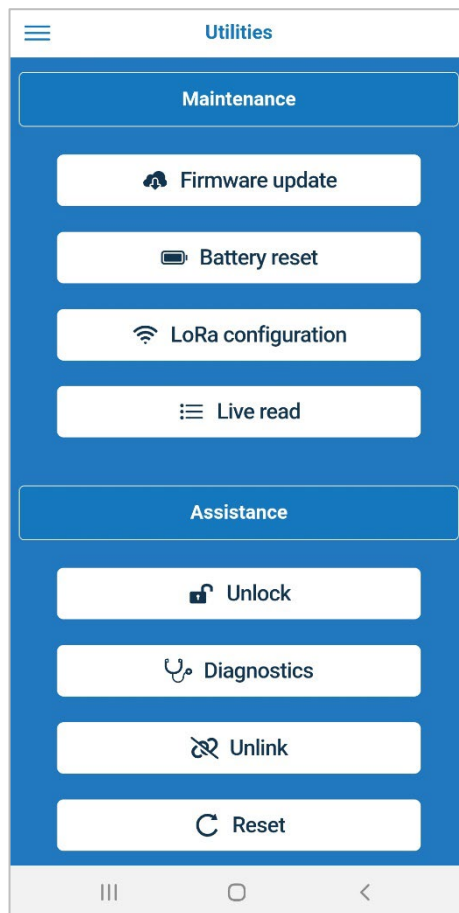


The features described in this chapter are for advanced users only. Please proceed with caution, and do not hesitate to contact us for technical support. Incorrect usage could damage your Dickson device(s) and render them inoperable.

### 7.1 Utilities

OCEAView Mobile includes several technical features that allow you to perform certain operations on supported Dickson data loggers and other devices.

1. Open menu and select **Utilities**.



*Advanced utilities in OCEAView Mobile*

2. This screen contains several Maintenance and Assistance features that may be necessary to you at some point, typically with the help of a Dickson support technician or following instructions provided by the team.

Bluetooth must be activated on your data logger for it to appear in the list. Activate Bluetooth on Cobalt L3 and ML3 by pressing the push button for several seconds.

You can use the Filters function to display specific devices.

The features in this section are as follows:

### Firmware update

Updates firmware on supported devices. This feature loads the latest firmware for the device(s) you select and then enables you to update them.



As of this writing, firmware can be updated using OCEAView Mobile for iOS and Android on Cobalt X, Atlas, Emerald, and LoRa Siren and Alert Relay devices. Cobalt L3/ML3 firmware can only be updated using the Android version of the application.

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Press **Firmware update** → Choose the device type → Press **Latest** to update with the most recent firmware → Select one or more devices to update → Press **Firmware update**

Wait until the update process is complete.

**Note:** after updating a Cobalt X data logger, go into the device's menu and press the **Synchronize** function. Do not restart data logging until the screen indicates that the data logger is ready and waiting for configuration, and the correct firmware version is displayed in the OCEAView web application (on the **Data loggers** screen, in the "Version" column). You may need to synchronize several times, waiting for one full minute between each synchronization.

### Battery reset

After physically inserting new batteries in a Cobalt L3, Cobalt ML3, or Emerald data logger, you must reset the battery counter using this function. With Cobalt X, you can either use this feature or reset the battery counter directly via the device's menu.

Press **Battery reset** → Press to choose the device from the list → Press **OK** to continue.

### LoRa configuration

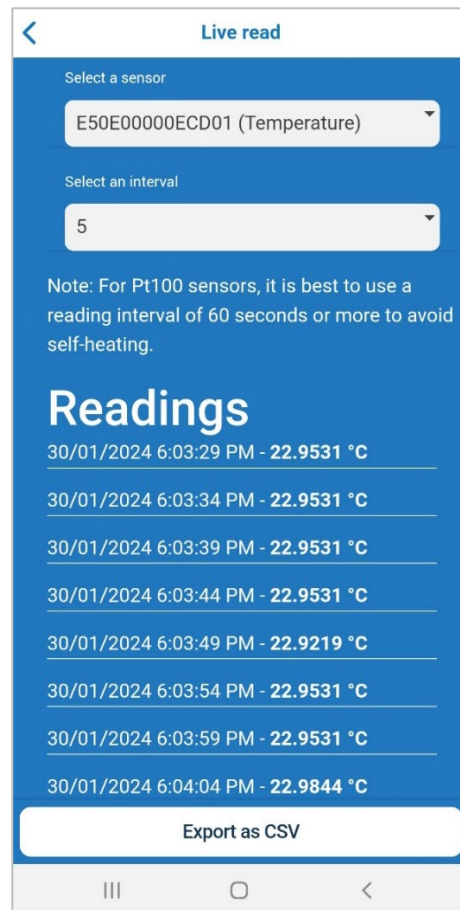
Configures regional settings for LoRaWAN communication on Dickson LoRa devices without a user interface of their own, namely the wireless Dry Contact and Siren alert devices, as well as Cobalt X. These devices all

support Bluetooth enabling connectivity from your smartphone.

### Live read

This function enables you to check readings from a selected sensor in real-time. It may only be used if data logging is not currently running on the device.

1. Tap on **Live read** to scan for nearby data loggers.
2. Select the desired data logger in the list (with no data logging in progress).
3. Use the pull-down menus to select the sensor and desired reading interval.
4. Press **Start live reading** to display readings.
5. When done, press **Stop live reading**.



6. You may then press **Export as CSV** if you want to send the readings as a file attachment in CSV format using the application of your choice.

Your smartphone will present the available third-party applications you can use to send the file, such as e-mail, WhatsApp®, Google Drive®, etc. Results

will vary depending on the application you choose.

**Unlock**

Unlocks the selected device in case it has been locked for technical reasons. Our Technical Support team will need to send you a specific code to continue.


**Diagnostics**

Runs diagnostics on the selected device and allows you to send the information via the third-party application of your choice, such as e-mail, WhatsApp®, Google Drive®, etc. Results will vary depending on the application you choose.

**Quick** connects to the device, collects basic information, then prepares an e-mail message that you can send to Technical Support.

**Full** scans the device's memory (which may take a couple of minutes) and prepares an e-mail message with detailed data for Technical Support.

**Unlink**

When OCEAVIEW Mobile is logged in to your OCEAVIEW Cloud or On-premises account and you synchronize data logging, the data logger is linked with your company and cannot be used with another company or by anyone outside your company (starting with firmware version 2.7). Use this feature if you need to unlink a data logger from your company. Linked data loggers are shown like this, with a link symbol (  ).



Make sure you stop data logging if it is running on the data logger you intend to unlink.

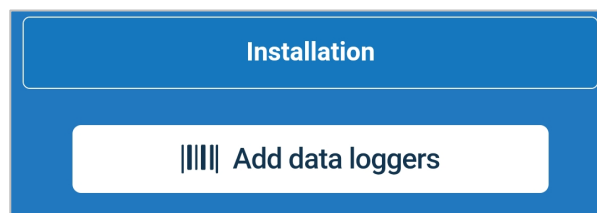
Then press **Unlink** → In the list, press the data logger you would like to unlink → Confirm by pressing **OK**.

**Reset**

Restores factory settings to the selected device. Our Technical Support team will need to send you a specific code to continue.

### Add data loggers

When OCEAView Mobile is logged in to your OCEAView Cloud or On-premises platform, this additional option is displayed at the bottom of the page:



You may use this function to add data loggers to your OCEAView Cloud account without starting data logging on them (described in section [4.4 – Adding a data logger without starting data logging](#)).

## 7.2 Entering calibration correction parameters

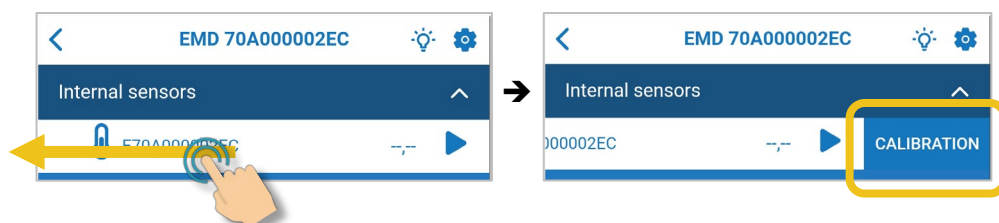
If you calibrated your Emerald or Atlas sensors and have the calibration correction details, you may enter the information directly in OCEAVIEW Mobile. The calibration details are stored in data logger memory.



To load calibration coefficients, data logging must not currently be running on the data logger.

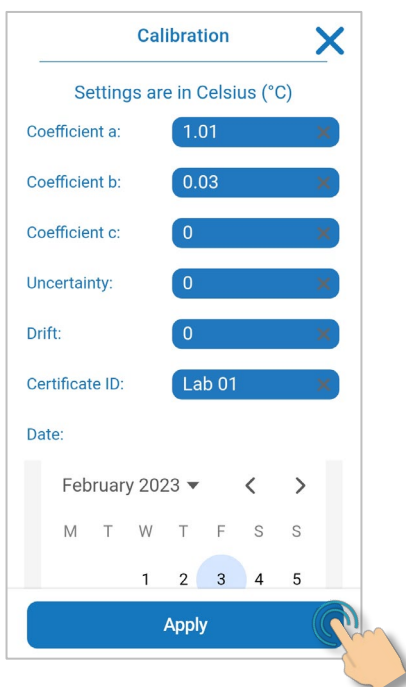
To load calibration details:

1. Press the data logger name or serial number in the **Scan** screen.
2. Swipe the line containing the sensor towards the left, then press on CALIBRATION.



*Accessing sensor calibration by swiping the line with the sensor*

3. Fill in the fields with the calibration details from your certificate. All fields must be filled in. You may leave a value of 0 if necessary.



*Press to apply sensor calibration settings*

4. Press **Apply** when done.

## 8 Troubleshooting – FAQ

**I successfully installed new Atlas and Emerald data loggers while connected to my OCEAView Cloud platform, but no information is updated in the OCEAView dashboard.**

- Your mobile device must still be connected in order to synchronize data (login in the OCEAView Mobile main menu).
- You must run synchronization manually with OCEAView Mobile. You may either:
  - Press the **Synchronization** option in the main menu to synchronize recently entered data loggers
  - Press the **Synchronize** button in a data logger's sensor view to synchronize all the sensors on that data logger
  - Press the **Synchronize** button in the details for an individual sensor.
  - There is no global or automatic synchronization feature.


**I have logged into an OCEAView Cloud account in OCEAView Mobile. Everything seems to be working fine but I cannot start data logging.**

Check your OCEAView Cloud (or On-premises) interface, and make sure that Mobile application access is authorized: **Security** → **Mobile application access** → move the slider to **Yes**

**What is the best way for me to get technical support with OCEAView Mobile?**

You may contact the Dickson technical support team or your authorized reseller. A technician may ask you to use the **Utilities** feature to send diagnostics information about your device, or to use the **Send logs** feature in the Settings menu. Your smartphone will present the available third-party applications you can use to send the information, such as e-mail, WhatsApp®, Google Drive®, etc. Results will vary depending on the application you choose.

**What does the link symbol mean next to data loggers in the Scan screen?**

When data loggers are linked to a company account, they are shown with a link symbol like this: 

You can only access these data loggers if you are logged in to the same company as that with which the data logger is linked.

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