Dramix® eyeD® Streamer V26.1

User Guide

Everything you need to know to effectively use the device.



Table of Contents

01 Introducing the Dramix® eyeD® Streamer

02 Overview of the device

03 Indicator lights

04 Taking measurements

05 Battery

06 User interface: eyeD® Link and Portal

07 eyeD® Link

08 eyeD® Portal

09 Frequently Asked Questions

Introducing the Dramix® eyeD® Streamer

The Dramix® eyeD® Streamer provides real-time monitoring of steel fibre reinforced concrete (SFRC) during placement. By continuously measuring the concrete flow, it helps operators detect variations as they occur and maintain better control over the process. The result is greater visibility into concrete quality and increased confidence in the uniform distribution of fibres within the finished structure.



Overview of the device

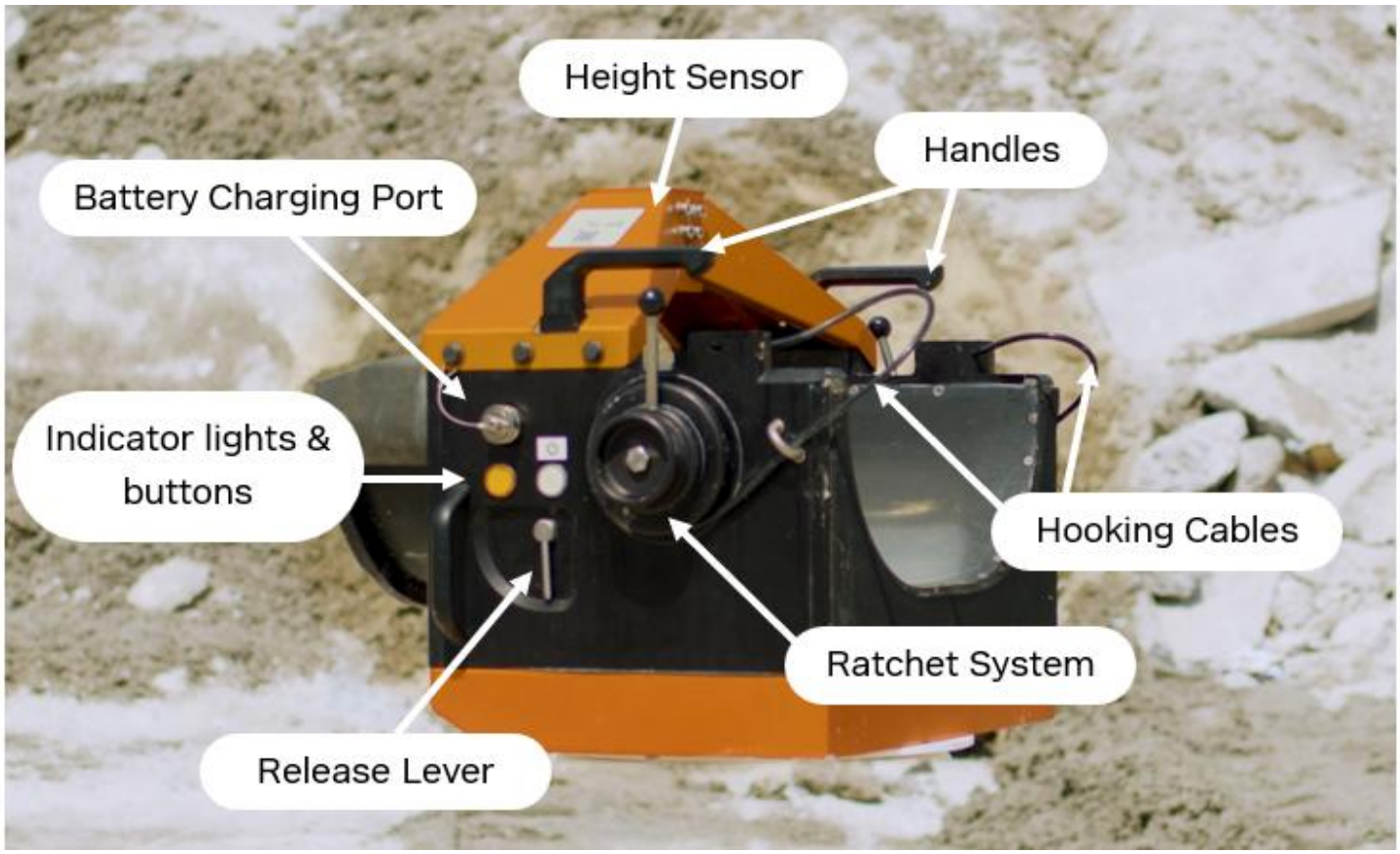
The Dramix® eyeD® Streamer is built as an extension for a concrete mixer chute. The buttons to operate the device are available on either side for better accessibility in various job site conditions.

1 **Buttons**
Both sides of the device feature an orange and white button. The white button switches the device on or off. The orange button starts and stops measurements.

2 **Hooking cables and ratchet system**
The cables and ratchet system are used to hook the Dramix® eyeD® Streamer to a variety of standard truck mixer chutes.

3 **Battery charger connection**
The connection is used to charge the devices with the provided wall charger.

4 **Height sensor**
The ultrasonic height sensor detects the flow of concrete. Make sure to always keep this sensor clean.



Indicator lights

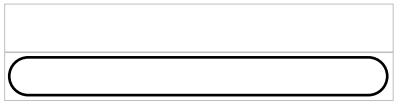
The buttons on the Dramix® eyeD® Streamer double as indicator lights to signal the device status to the operator.



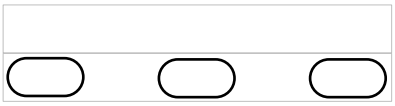
Initialization of the device
Orange indicator continuously ON
White indicator OFF



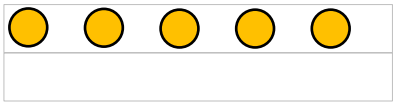
Warming up of the device
Orange indicator blinking SLOWLY
White indicator OFF



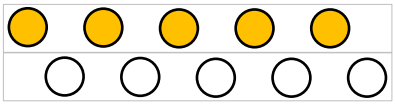
Stand-by
Orange indicator OFF
White indicator continuously ON



Measurement active
Orange indicator OFF
White indicator blinking SLOWLY



Shutdown or Error
Orange indicator blinking FAST
White indicator OFF



Shutdown – Battery Empty
Orange indicator blinking FAST, alternating
White indicator blinking FAST, alternating

Taking measurements

This chapter describes how to take measurements of steel fibre reinforced concrete samples in the Dramix® eyeD® Streamer.



The eyeD® Streamer uses a magnetic field to take measurements. Pacemaker wearers must stay at least 30 cm (1 ft) away from the active device.

1 **Preparation**

Make sure that the device is clean and its battery is fully charged before starting any measurements



Check the device for any damages. **Do not** use the device when any damage is observed.

Any damaged part should be properly repaired or replaced by an authorized service center. Contact your Bekaert representative for more information.

Never attempt to modify the equipment

2 **Power On**

Press the white button shortly to start the device. After a brief initialization phase (orange indicator continuously ON) the device starts warming up (orange indicator blinking SLOWLY). The device is ready to use when the white indicator is continuously ON or blinking FAST while the orange indicator is OFF.



3 Hooking

The eyeD® Streamer can be hooked to a chute of a truck mixer by using the ratchets and cables on both sides of the device.
Step 1: Loosen the cables by simultaneously pulling the release lever and cable
Step 2: Hook the cables over the hooks on the end of the truck's chute
Step 3: Tighten the cables with the ratchet lever and make sure there's no gap at the bottom to avoid spillage of concrete

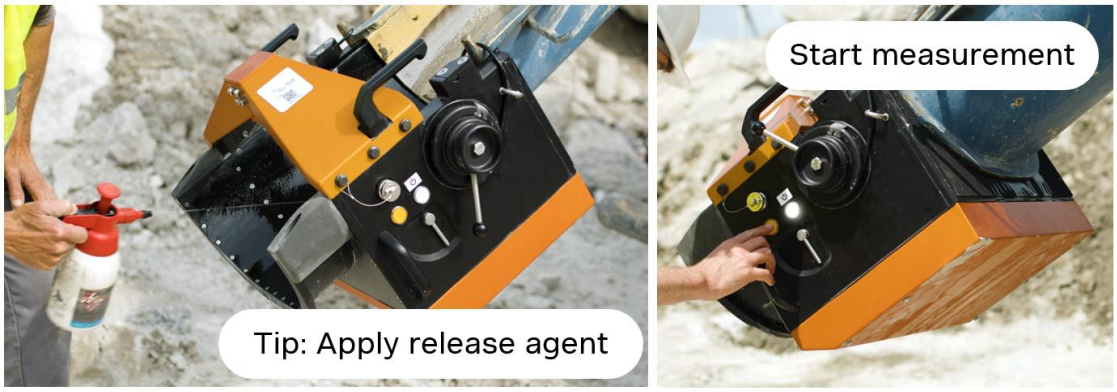


Do not attempt to hook the device if any damage is observed on the hooking cables or the truck's chute.

Keep hands away from either end to avoid **pinch hazards**. Only use the handles to manipulate the device.

4 Start measurement

Start a measurement by long pressing (5 seconds) the orange button on either side of the device. The white indicator will start blinking SLOWLY.



The measurement must be started **at least 5 seconds before** concrete flows through the device. The device uses these first moments as the reference ("empty") level during the unload.
If the measurement is not started before the concrete flows, the device will not be able to process the data, and **no report will be available**.

5 During measurement

Be aware of any unusual behavior during the pour and use the eyeD® Link app to attach notes and/or pictures to the active measurement.





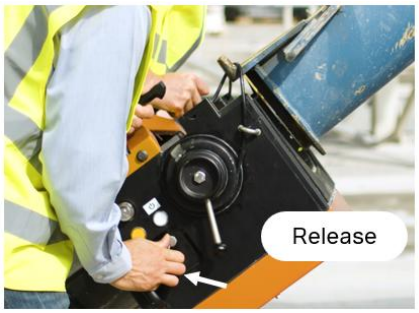
Do not reach into the chute with your hands and/or (metal) objects while a measurement is running. This will result in unreliable readings of the volume flow and/or fibre quantity.

6 Stop measurement

Stop the measurement by long pressing (5 seconds) the orange button on either side of the device. The orange indicator will start blinking SLOWLY while the data is being processed and the device warms up to prepare for the next measurement.

7 Unhooking and Cleaning

Pulling both release levers will loosen the hooking cables allowing you to lift the device off the truck's chute. Clean the device with water to make sure no concrete or fibres are left behind.







Do not use a high-pressure cleaner on the chute. A normal hose is allowed.
Make sure that the **height sensor** in the compartment above the chute is cleaned properly.

8 Power Off

After finishing all measurements and while in stand-by mode, long press (10 seconds) the white button to power off the eyeD® Streamer. The orange indicator will start blinking FAST while the white indicator is OFF. The device will go to shut-down mode.



The device is a measurement device and should be **handled with care**. Do not throw or drop the device.

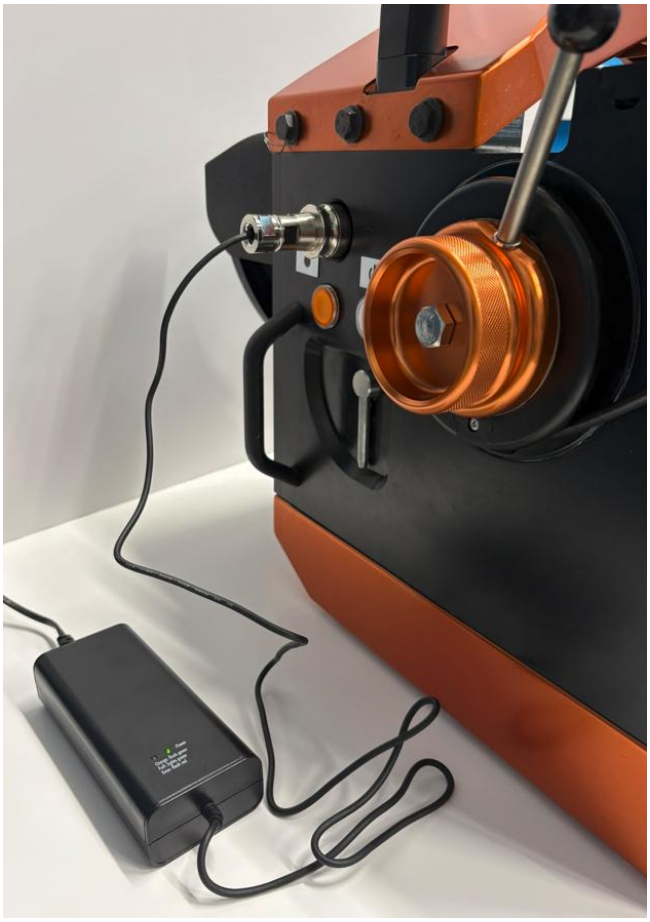
Do not climb in, on or occupy the device for any purpose. Injury from slipping or falling may occur.

Ensure that there is careful supervision when this device is used in the presence of children, incapable individuals or pets. The device is NOT suitable for use by persons (including children) with a physical, sensory or mental limitation or a lack of experience and knowledge, irrespective of whether they are being supervised or have been issued with instructions in relation to the use of the device by a person who is responsible for their safety. Always ensure children cannot play with the device;

Battery

Dramix® eyeD® Streamer is equipped with a 7800mAh battery capable of a full day of measuring. The remaining battery capacity is shown in the eyeD® Link app. Whenever the battery is empty, the device will automatically shut down. This is indicated by the orange and white lamps blinking (alternating) FAST.

To charge the battery, connect the battery charger to the charging plug of the eyeD® Streamer and wait until the lights indicate a full charge. The charger features two LED's: one to indicate it is connected to power and one blinking green while charging and continuously green when fully charged.



Always connect the charger to the main power **before** connecting it to the eyeD® Streamer. Verify if the supply voltage matches the voltage range of the charger before connecting it to a power source.

Do not use the charger and its cables in wet environment or when the equipment is wet. Store the charger and its cables in a dry location when not in use.

Do not attempt to charge the eyeD® Streamer with any other battery charger than the one supplied with the device.

User interface: eyeD® Link and Portal

The end user interacts with the Dramix® eyeD® Streamer directly with the orange and white buttons and indicator lights. These are sufficient to successfully complete measurements and download them from the device later. Nevertheless, it is recommended to use the eyeD® Link smartphone application on-site while taking measurements to add useful information to each measurement such as pictures, notes, fiber type(s) and dosage(s) or concrete specifications. The application can also be used to assign the measurements to their respective projects.

The eyeD® Streamer device does not upload its measurements to an online server (eyeD® Portal) automatically. This communication is handled by the eyeD® Link smartphone application. When the app is connected to an eyeD® Streamer device, its newest measurements will be transferred automatically to the online eyeD® Portal for further processing and generating reports.



The recommended way of working with eyeD® Streamer follows these steps:

1 **Create a project and assign segments**
Projects and segments can be created on the eyeD® Portal or eyeD® Link application. A project can hold multiple segments, each with their own concrete and fibre specifications.

2 **Take measurements on-site with the eyeD® Streamer**
Connect to the eyeD® Streamer while on site to annotate measurements and assign them to the appropriate segment of the project.

3 **Create reports**
Pdf reports can only be created on the eyeD® Portal

Concept of Projects and Segments
You can organize all your measurements using projects and segments. A project is typically a job site. Each project needs to have at least one segment. Each segment is specified by a

unique combination of a type of concrete and one or more fibre types and dosages. EyeD® Streamer measurements can be assigned to segments.



The next sections in this manual will dive deeper into the features of the eyeD® Link app and eyeD® Portal.

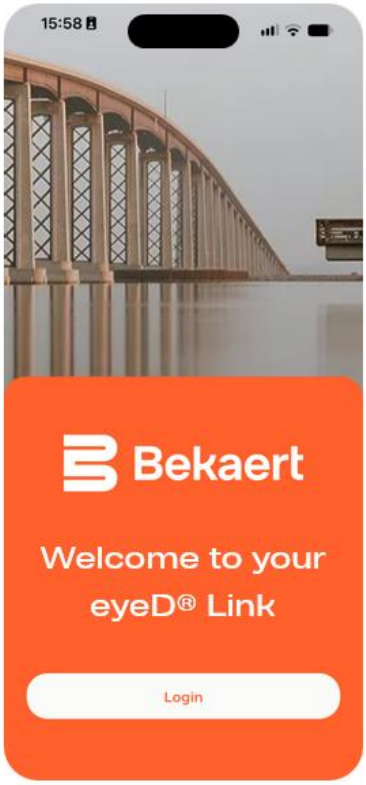
eyeD® Link

With the eyeD® Link smartphone application, you can enrich eyeD® Streamer's measurements with notes and pictures as well as provide required information such as the type of steel fibre(s) and dosage(s) or parameters of the truck mixer. The eyeD® Link app will automatically transfer all measurements and annotations to the online eyeD® Portal.

The eyeD® Link application will automatically upload and synchronize its data to the online eyeD® Portal server when an internet connection is available. Cellular charges might apply.

Logging in

Contact your Bekaert representative to obtain login credentials for using the eyeD® Link application.



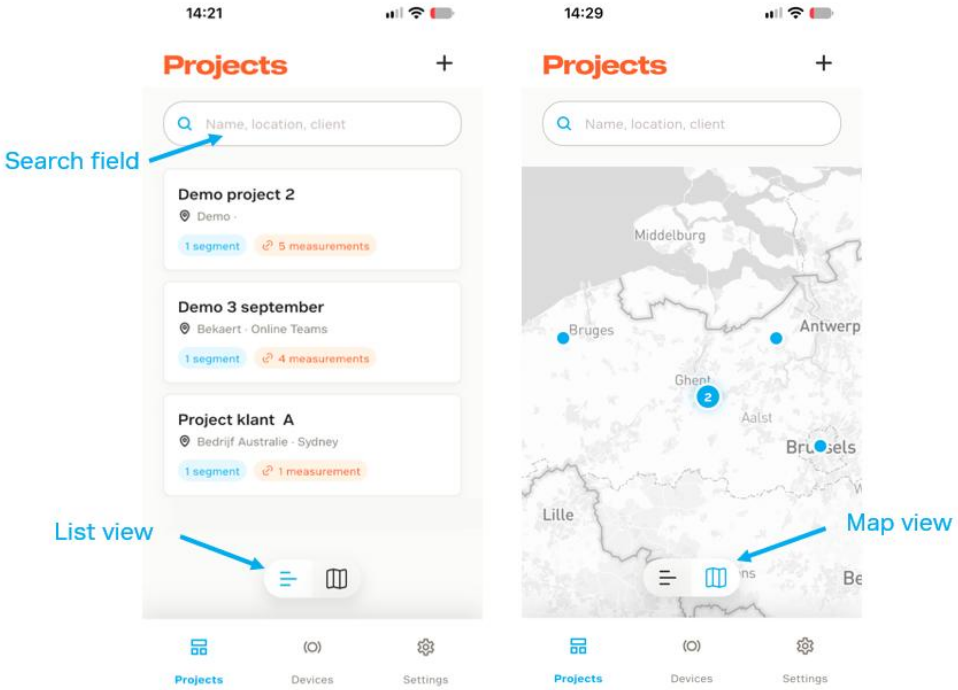
Navigating the application

The app features 3 main screens: Projects, Devices and Settings. These can be accessed via the bottom navigation menu.

Projects menu

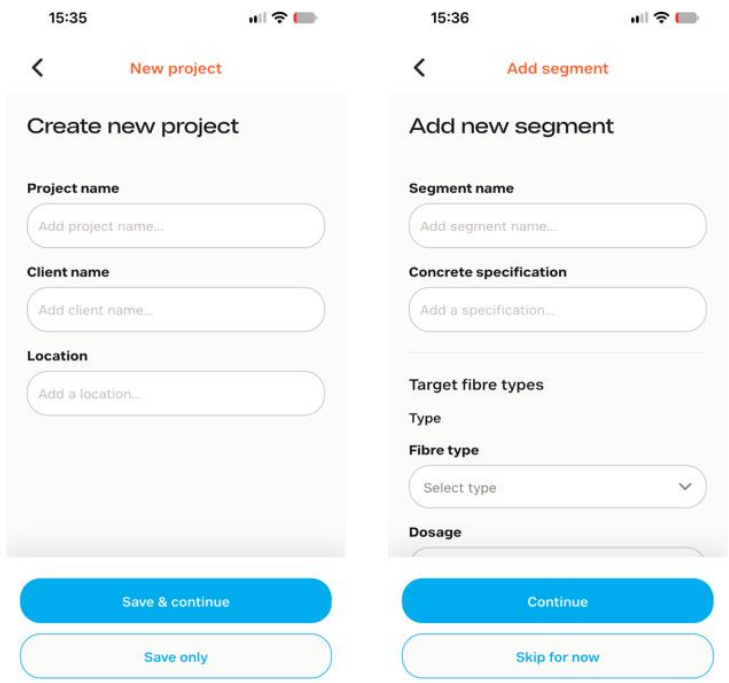
Projects list

You can find a previously created project by using the search field, scrolling through the projects in the list view or by using the map view. The list view is organized with the last project created on top as well as based on the most recent eyeD® measurement assigned to one of its segments.

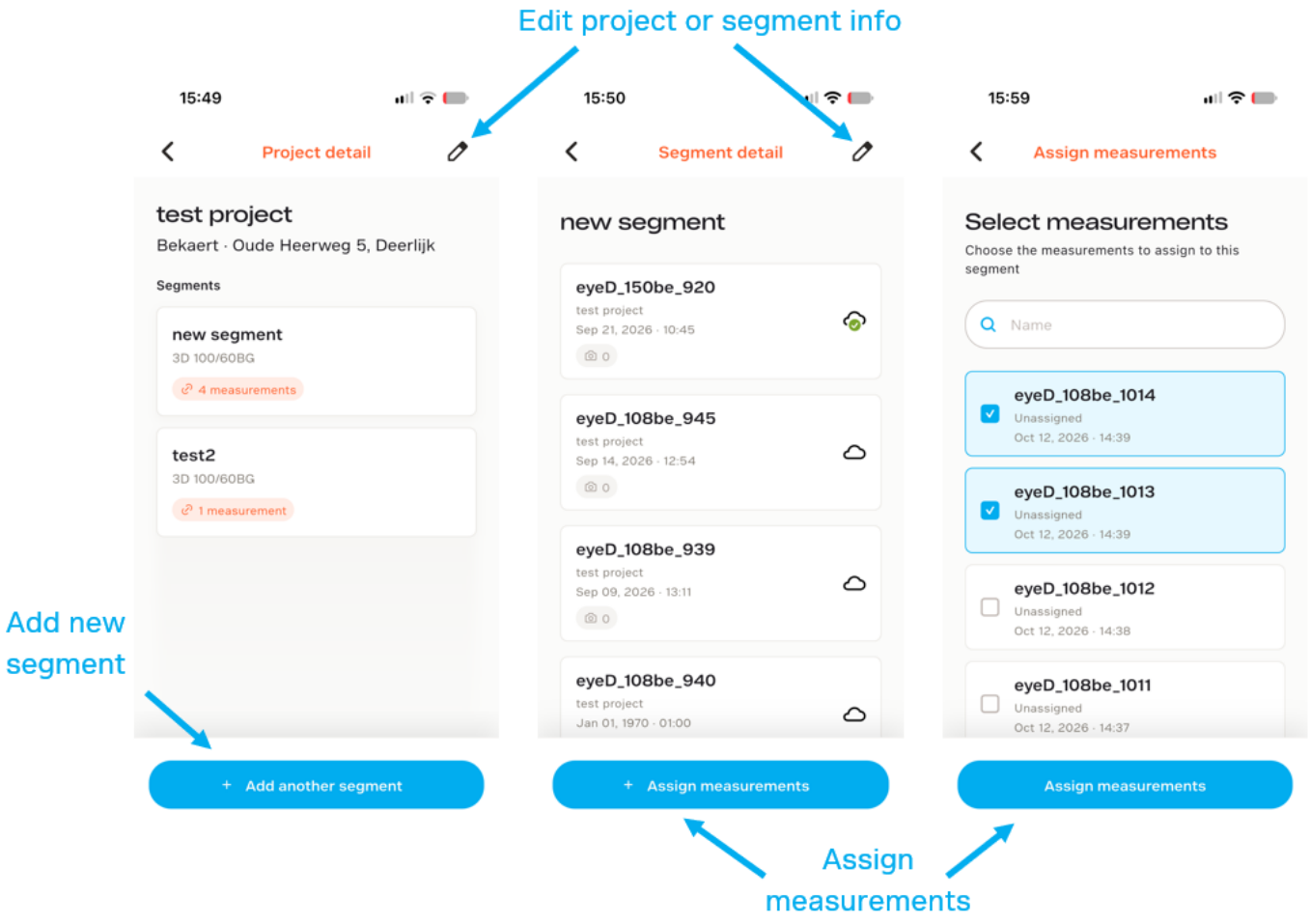


Create new projects and segments

Selecting the + sign in the top right corner creates a new project. With the option to immediately create a first segment. The project name and client are mandatory fields for a project. A segment requires at least one selected target fibre type and dosage.



Selecting a project from the projects list shows the project information and its associated segments. Selecting a segment shows all assigned measurements to this segment. You can assign new measurements from the segment view: selecting the “Assign measurements” button brings up a list of all unassigned measurements linked to your account.

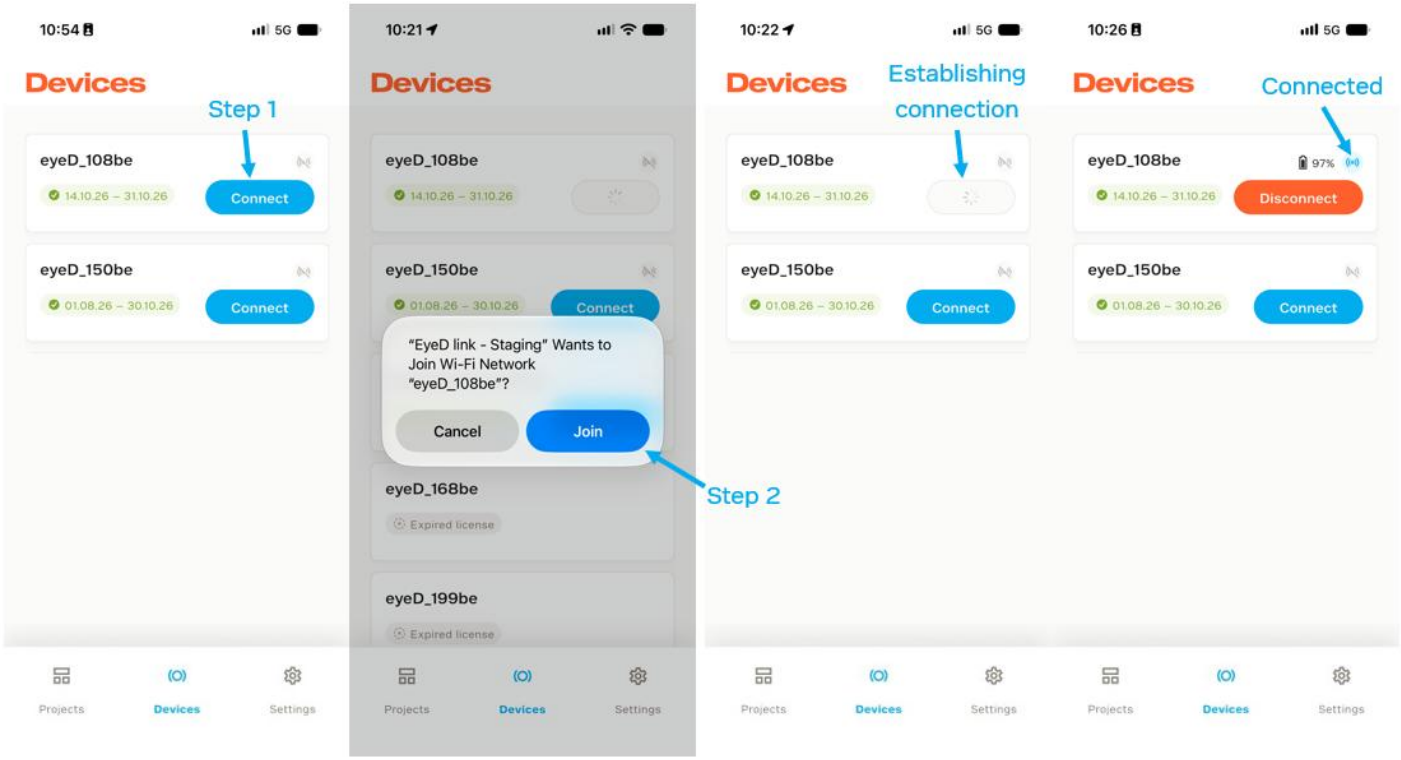


Devices menu

The devices menu shows an overview of all eyeD® Streamer devices you are using or have used in the past. The overview shows the license status for each device. The device for which you have an active license shows a “Connect” button next to it.

Connecting to an eyeD® Streamer

When you are nearby an active eyeD® Streamer device, navigate to the Devices menu and tap the corresponding “Connect” button. The app will ask if you want to connect to the eyeD® Streamer’s private Wi-Fi network. When selecting “Join”, the connection will be initiated. An active connection will be indicated with a blue icon.



Depending on the operating system on your smartphone, you might lose internet access when connected to an eyeD® Streamer. Be aware that cellular charges might apply if your smartphone is set up to revert to mobile data when internet is unavailable over Wi-Fi.

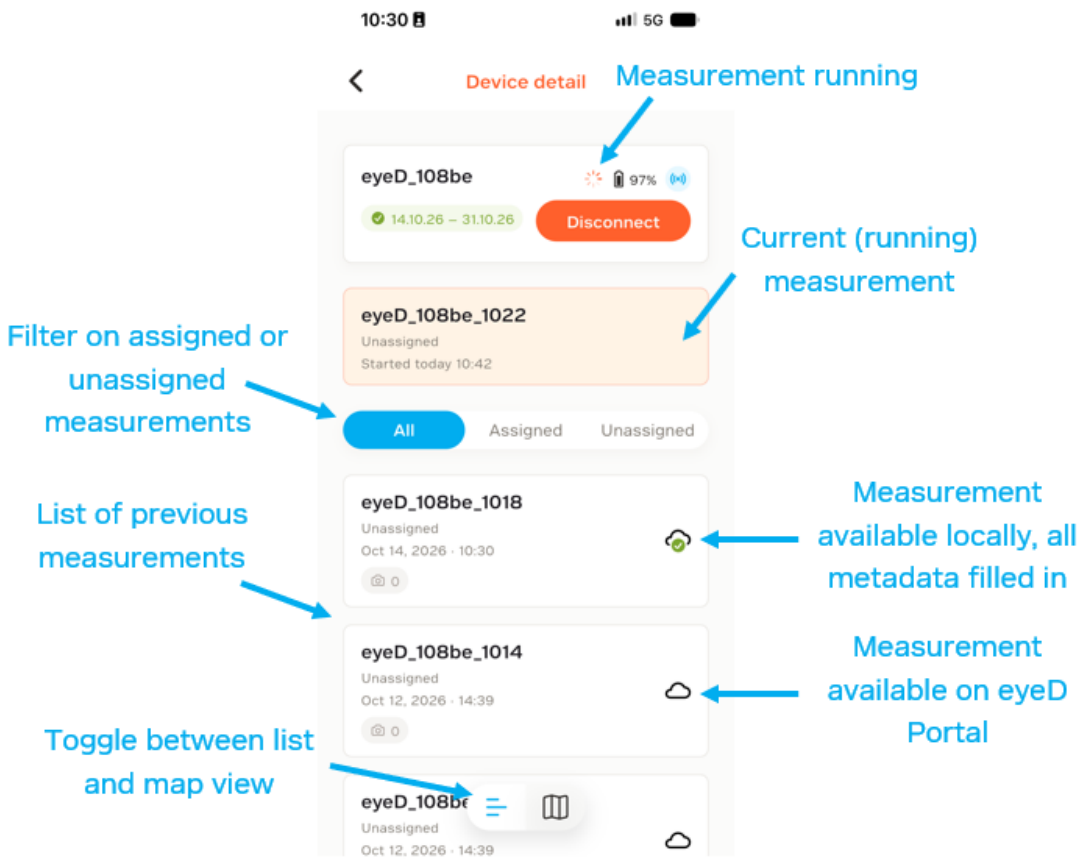
Status indicators of a connected eyeD® Streamer

The eyeD® Link app shows the status of the connected eyeD® Streamer.



Device details

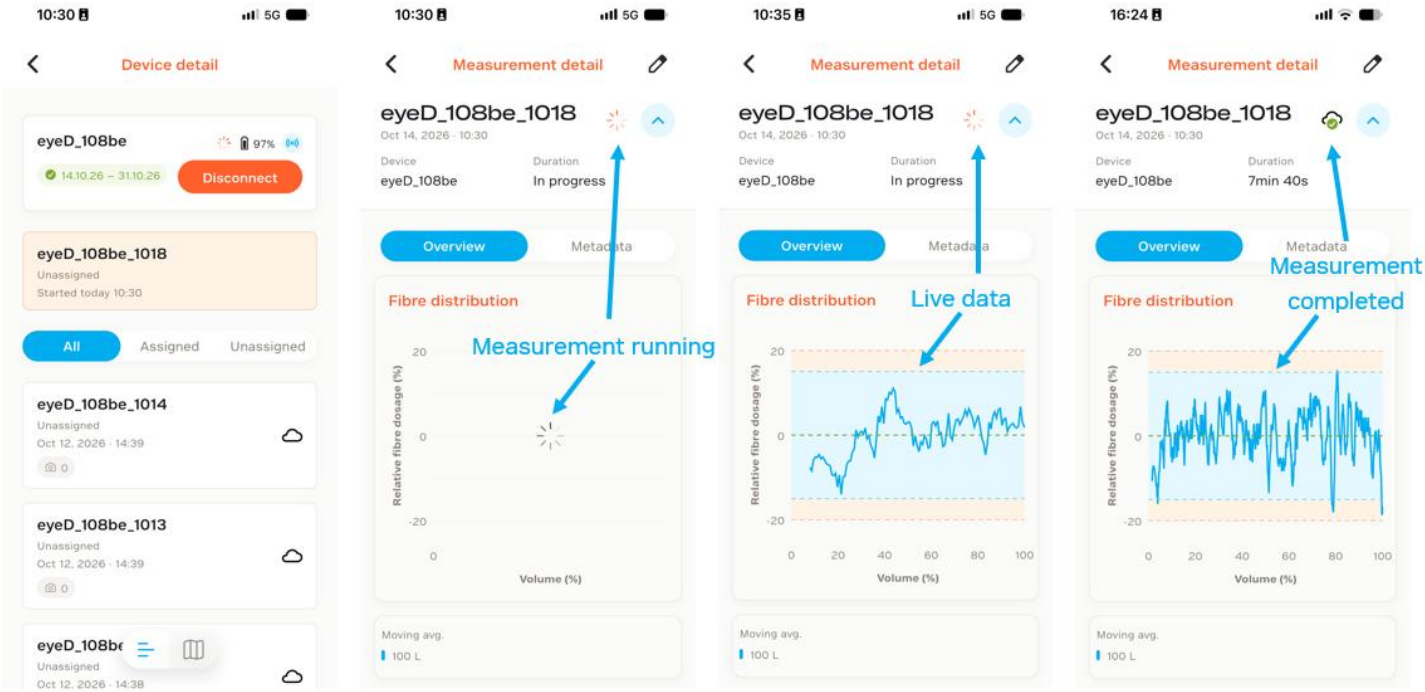
Selecting a device in the Devices menu brings up a list of all measurements you have done with this device. The most recent measurement is shown on the top of the list. The list can be filtered based on the assigned / not assigned status or it can be switched to a map view to see where all measurements took place. If the device details are accessed when connected to an actively measuring eyeD® Streamer, the active measurement is shown above the measurement list.



The device details are always accessible, also when not connected to an eyeD® Streamer. If the eyeD® Streamer did any measurements when not connected via the eyeD® Link application, these will only show up in the measurements list as soon as a new connection is established.

Active measurements

Tapping on an active measurement opens the measurement details. When the sufficient data is collected as concrete is pouring through the chute, the graph is updated with live data on a 1-minute refresh rate.



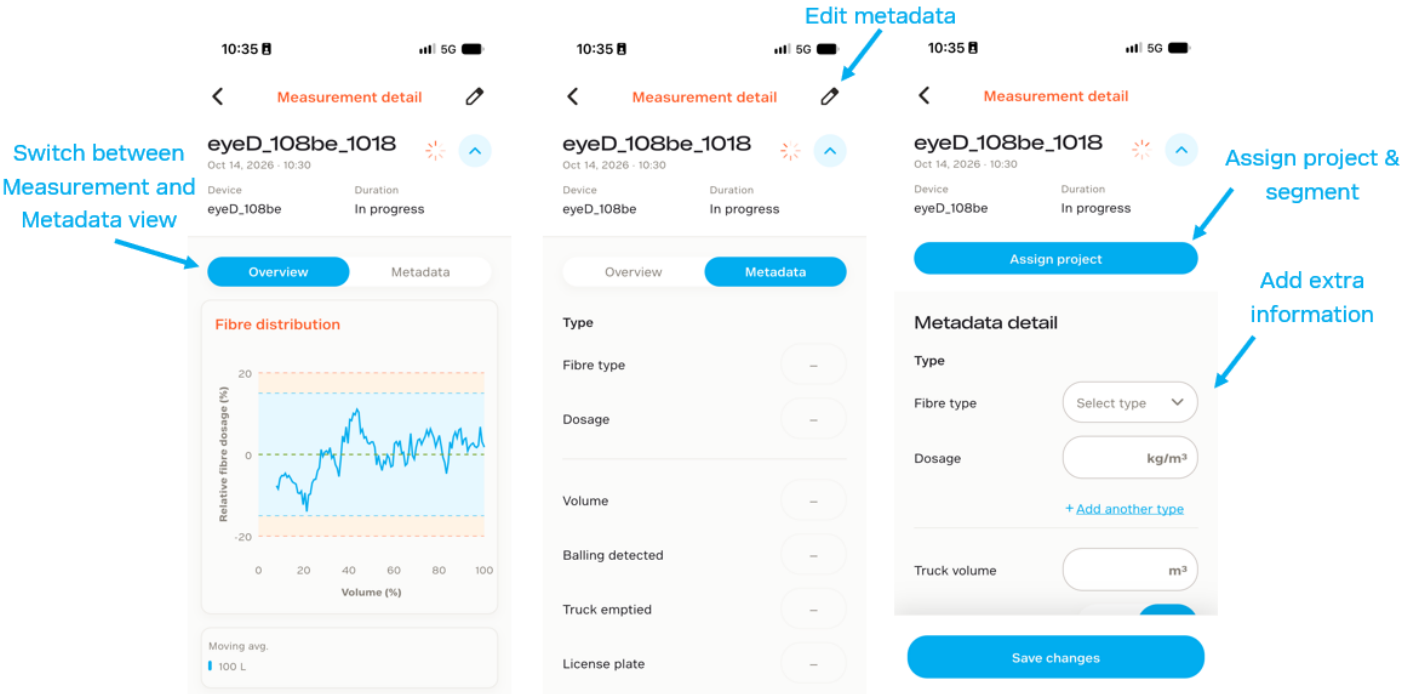
The live incoming data is a good indication of the running measurement, but it is recommended to wait until the complete truck is empty for a representative view of the homogeneity of the entire concrete batch.

Annotating measurements

Running or completed measurements can be enriched with metadata using the eyeD® Link application. Tapping the “Edit metadata” icon in the top right corner opens a screen where the measurement can be assigned to a project and the fibre type(s) and dosage(s) can be selected.

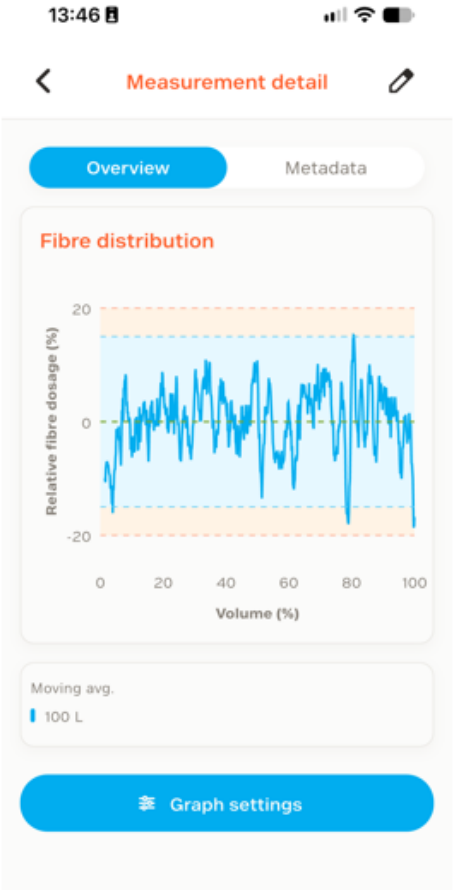
Available input fields are:

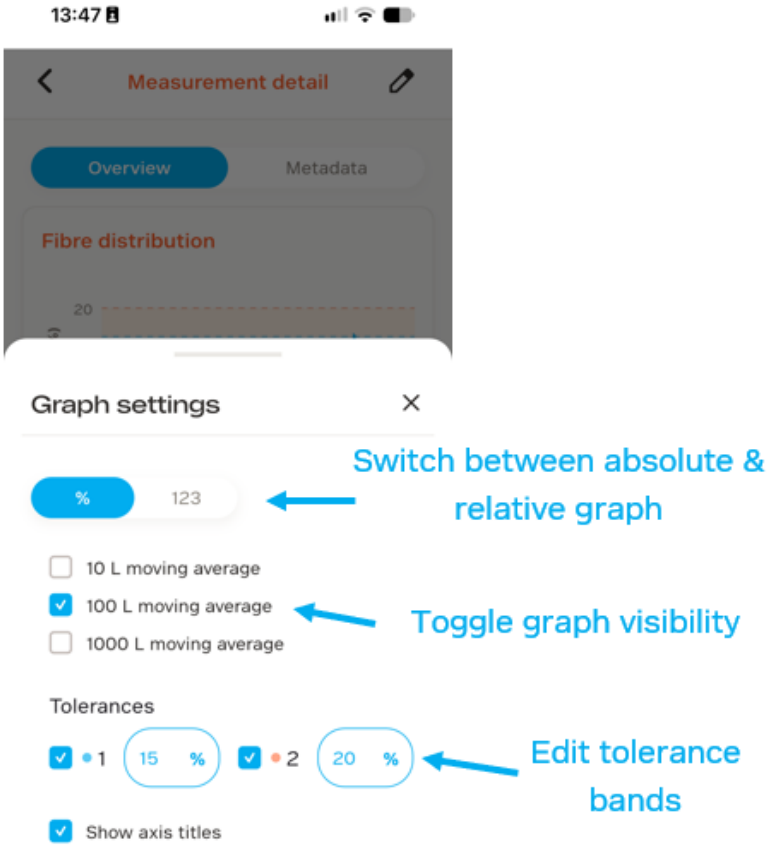
- Project & Segment
- Fibre type(s)
- Dosage(s)
- Truck volume
- Balling detected (y/n)
- Truck emptied (y/n)
- License plate of the truck: open text field
- Delivery note of the batch: open text field, optional
- Remarks: open text field, optional
- Photos: directly take a photo or select one from your photo library, optional



Graph settings

You can change the default graph settings on each measurement by tapping the “Graph settings” button. This allows you to switch between relative and absolute graphs and change the tolerance bands shown on the graph.

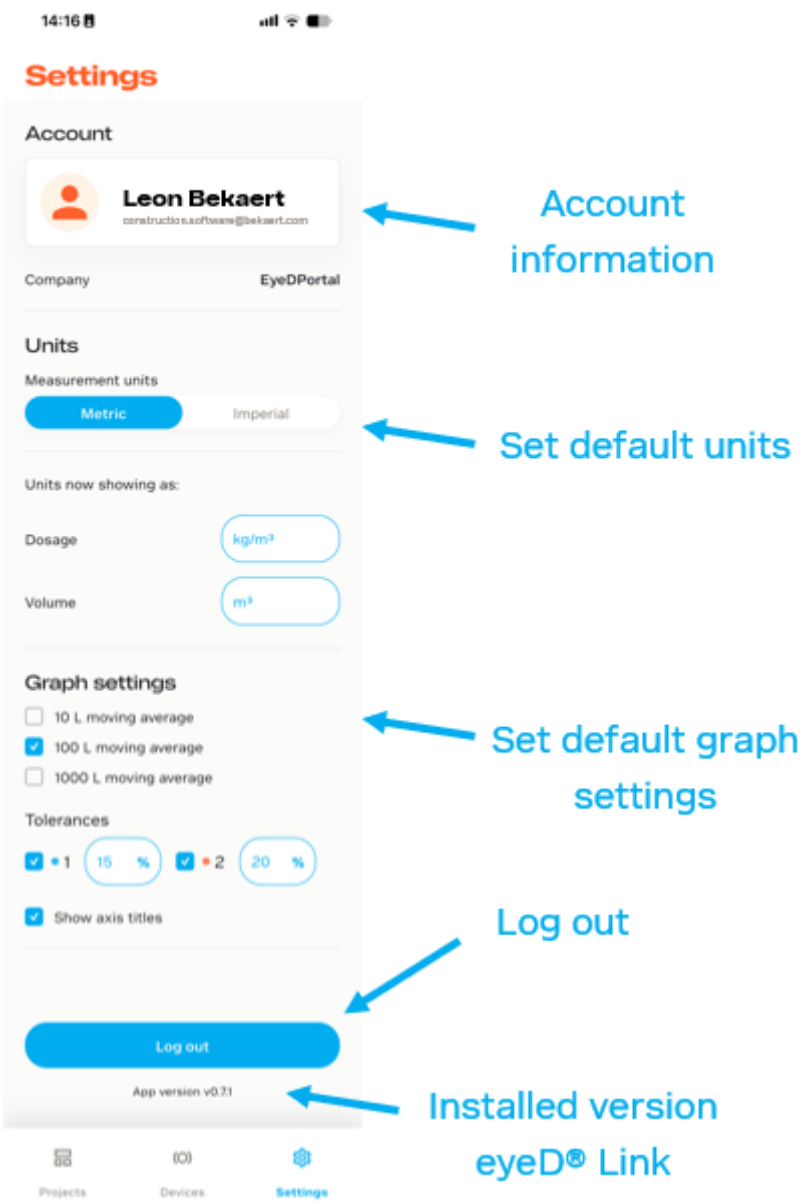




The eyeD® Streamer collects datapoints as averages of 10 liter increments. By default, the graph settings are showing the 100 liter moving average. Looking at the 100 liter and 1000 liter moving averages gives a good indication of the homogene of the steel fibres in the concrete batch.

Settings menu

The settings menu in the eyeD® Link app shows your account information. The menu can be used to customize the default graph settings applied to all measurements.



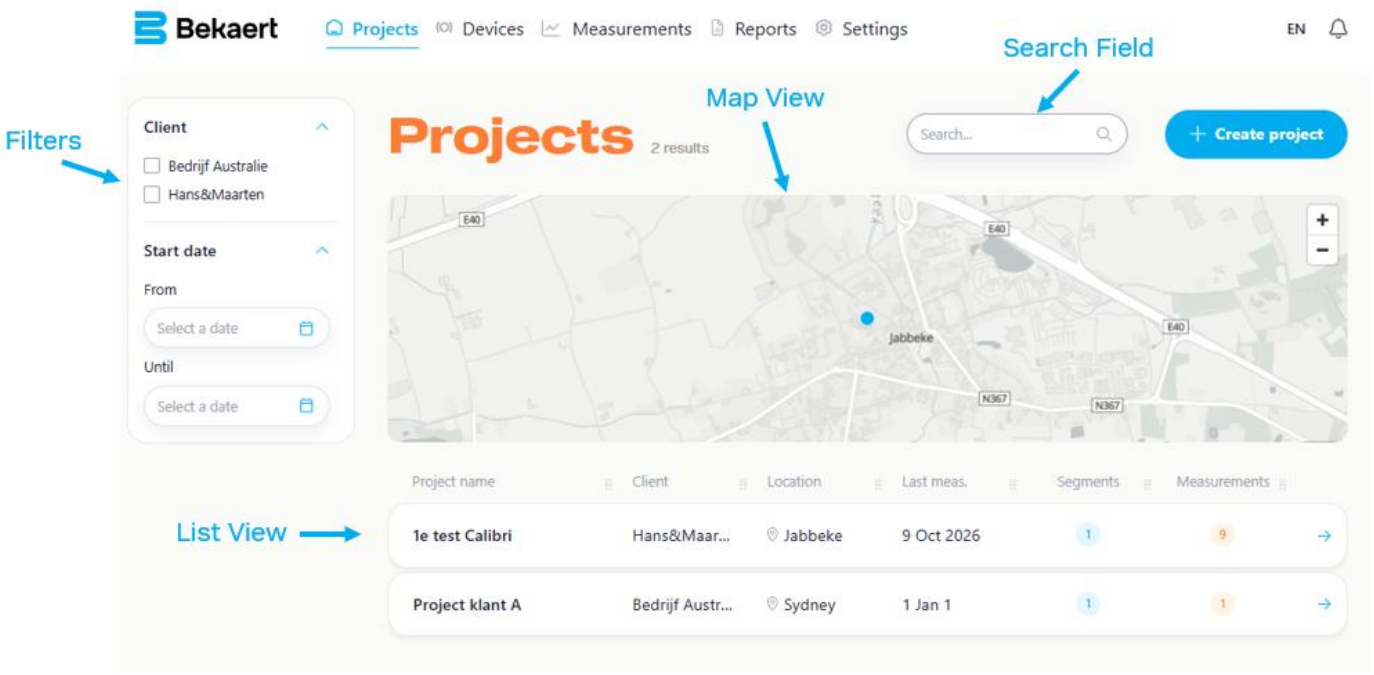
eyeD® Portal

The eyeD® Portal server is where all data linked to your account is stored. It shows all completed measurements that were uploaded by the eyeD® Link smartphone application. Measurements can be consulted, annotated and assigned to their corresponding projects and segments.

Projects Menu

Projects list

The projects menu offers an overview of all projects linked to your account. Projects can be found in the list view (sorted based on most recent measurements) or on the map view, based on GPS data from measurements. You can filter the list using the options on the left menu bar or use the search field to look for the project you need.



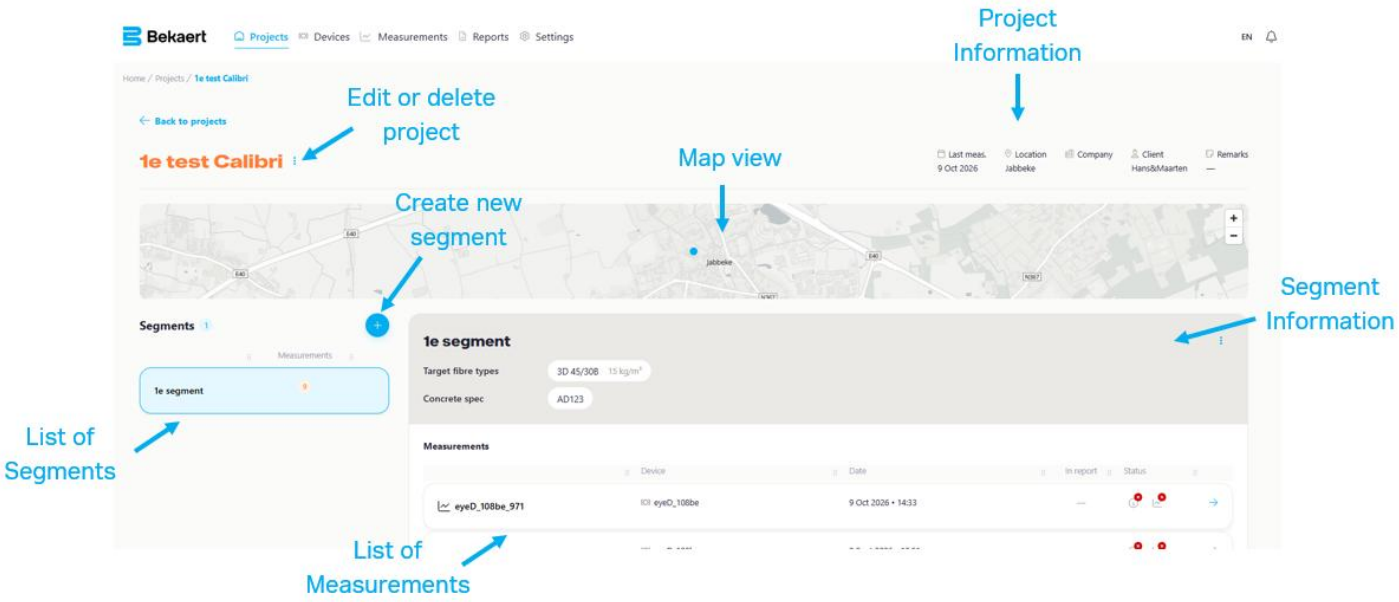
Create new projects

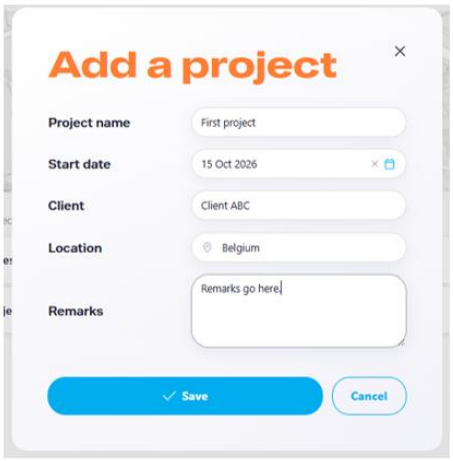
Clicking the “Create project” button next to the search field opens a menu to create a new project. The following information can be added to a project:

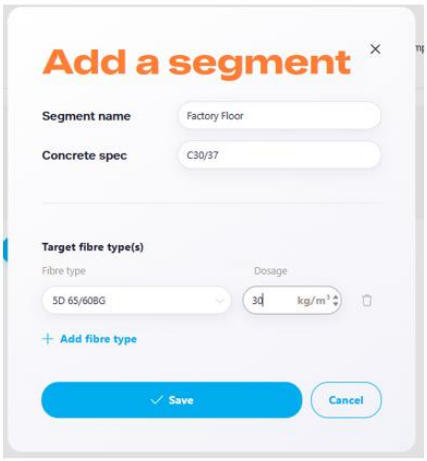
- Project name: open text field
- Start date: picked from the input box
- Client: open text field, dropdown menu is available to select recurring clients
- Location: for reference only, the map view will get its data from actual GPS data in eyeD® Streamer measurements
- Remarks: open text field

Projects require at least one segment to which measurements can be assigned. Segments can be created from the *project details* view. The following information can be added to a segment:

- Segment name: open text field
- Concrete spec: open text field to refer to a concrete recipe
- Target fibre type(s): multiple fibre type(s) and dosages can be added to a segment

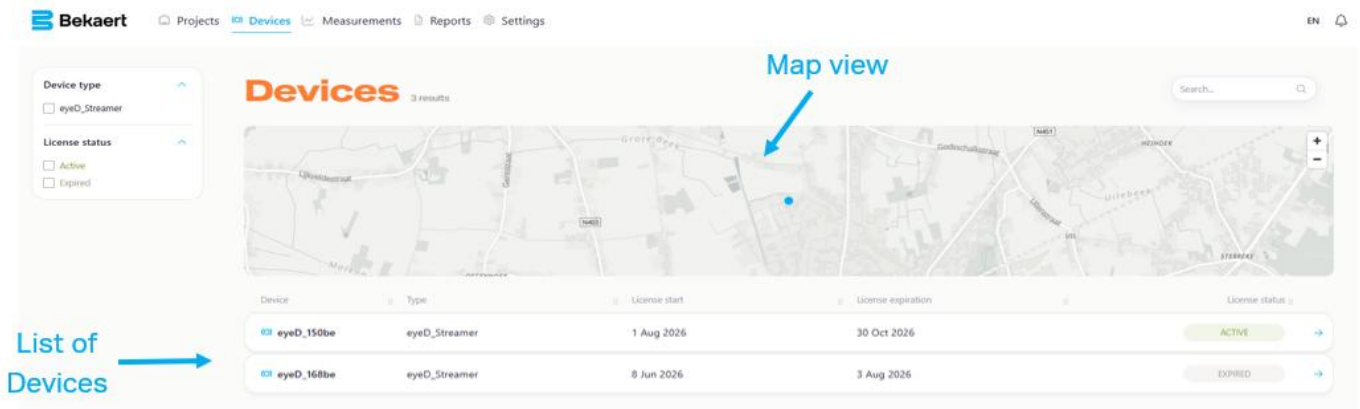






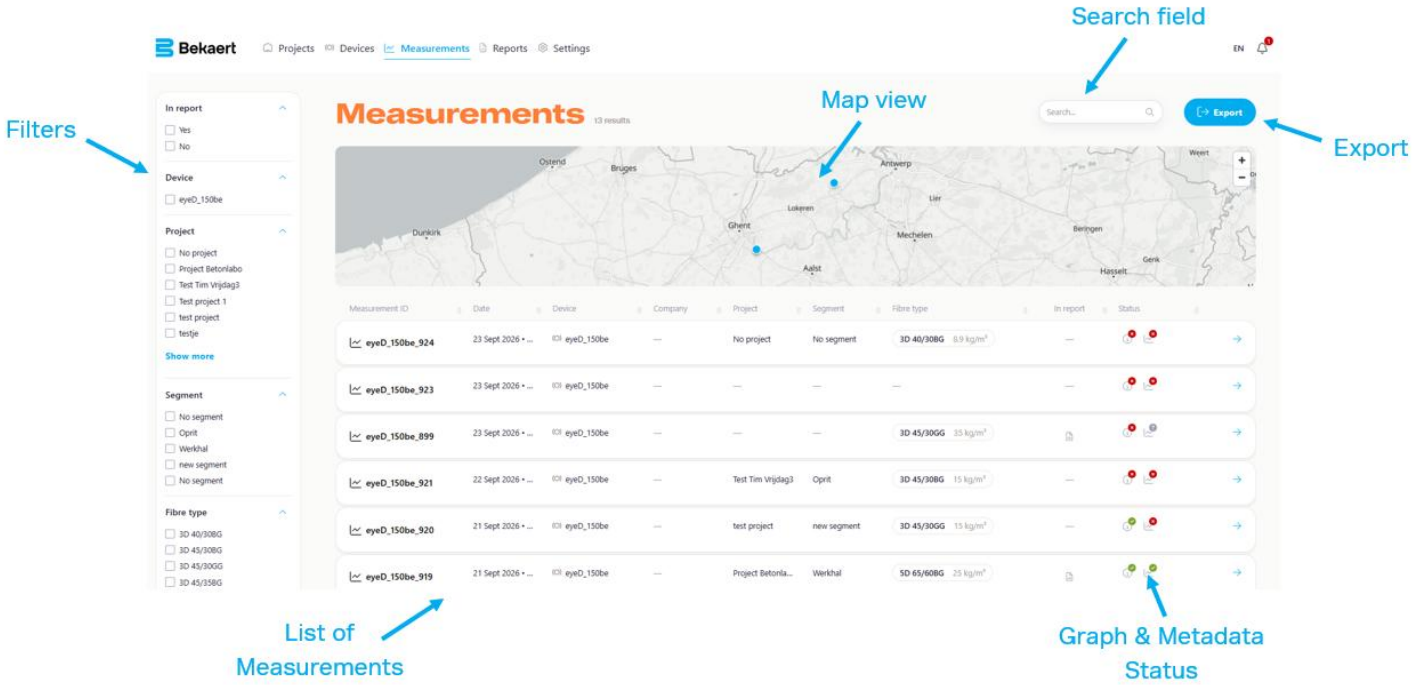
Devices menu

The Devices menu provides an overview of the devices linked to your account. The list view shows all devices with active and expired licenses. The map view shows where you have used each of these devices for the last time.



Measurements menu

The measurements menu is where you will find all measurements linked to your account. Measurements can be found in the list view or the map view, based on their actual GPS data. Use the filters on the left to find the (set of) measurement(s) you need. You can also use the search field to quickly drill down the list of measurements.



Use the Export button on the right if you want to export the complete list of measurements or the filtered list to a .csv file.

Graph & Metadata Status

The Status column in the measurements list shows two icons: one to indicate the status of the metadata linked to the measurement, the other linked to the graph data.

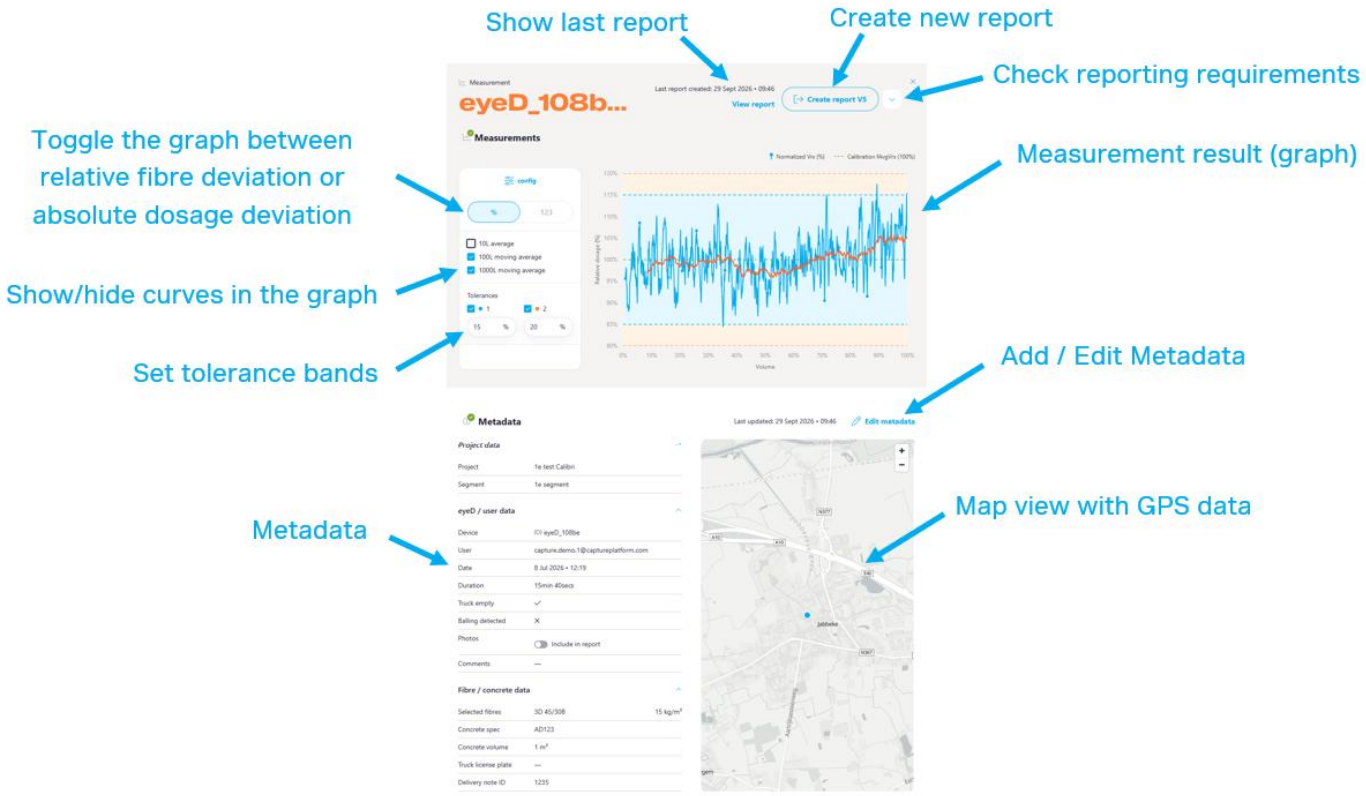
	Metadata incomplete
	Metadata complete
	Graph data unavailable, processing failed
	Graph data unavailable, missing metadata
	Graph data available

When hovering your cursor over the icon, it will show you what data is missing in case of an “incomplete data” status. If graph data is unavailable due to a “processing failed” error, this is usually related to either a measurement that was started and stopped before any concrete was flowing (= nothing detected) or a measurement started when concrete was already flowing.

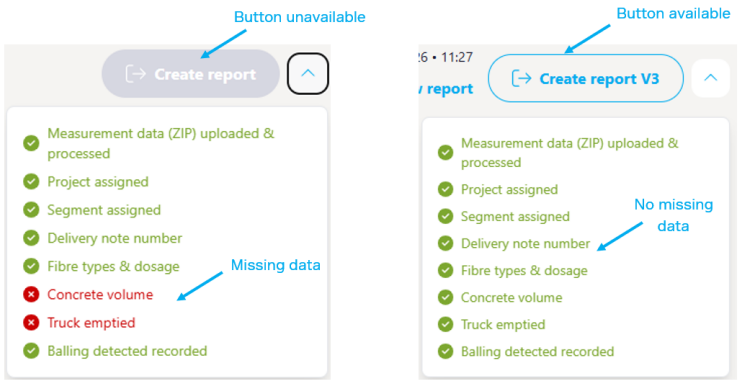
Measurement details

Clicking on a measurement opens a new pane with all information related to the selected measurement. You can add metadata such as notes, pictures, fibre and concrete batch information or assign the measurement to the correct Project / Segment.

This view will also show you which information is missing to generate a graph.



A report can be generated from the measurement details view by clicking on the Create Report button in the top right corner. The button will not be active if mandatory data needed for a reliable report is missing. Clicking the arrow button expands the list of requirements, where the missing data is highlighted.

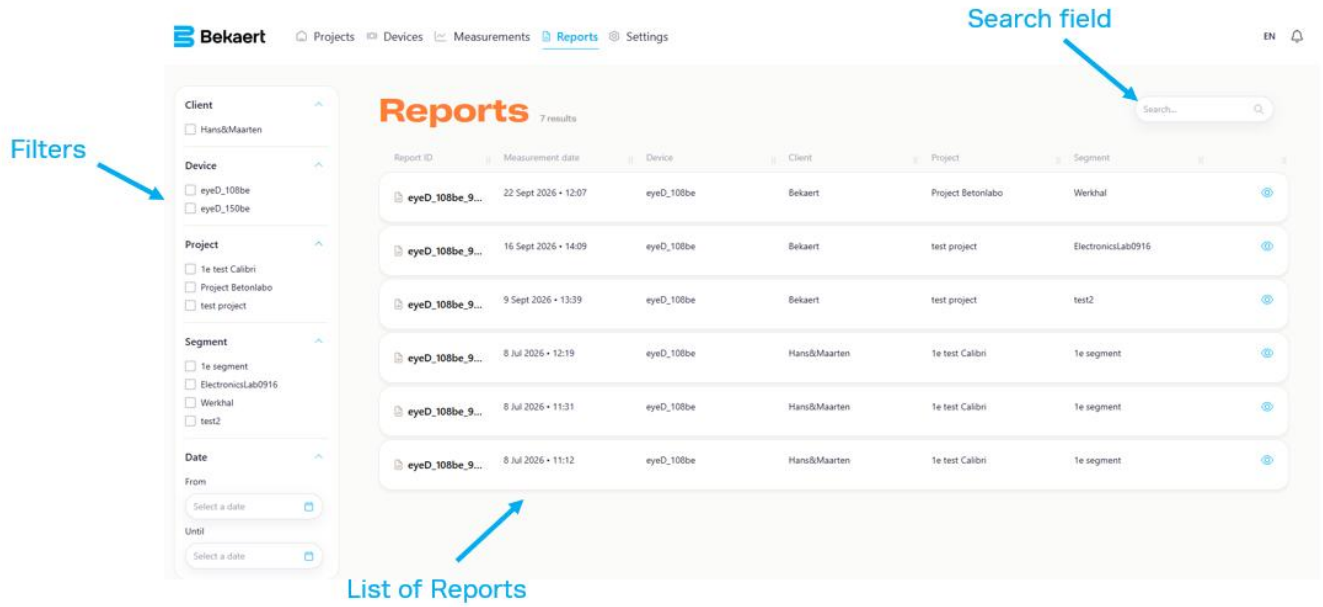


The eyeD® Streamer measurements are always relative measurements, showing a deviation in fibre content vs the average content. With a completely emptied truck, the average content can be regarded as the actual amount of fibres dosed in the truck.

Reports menu

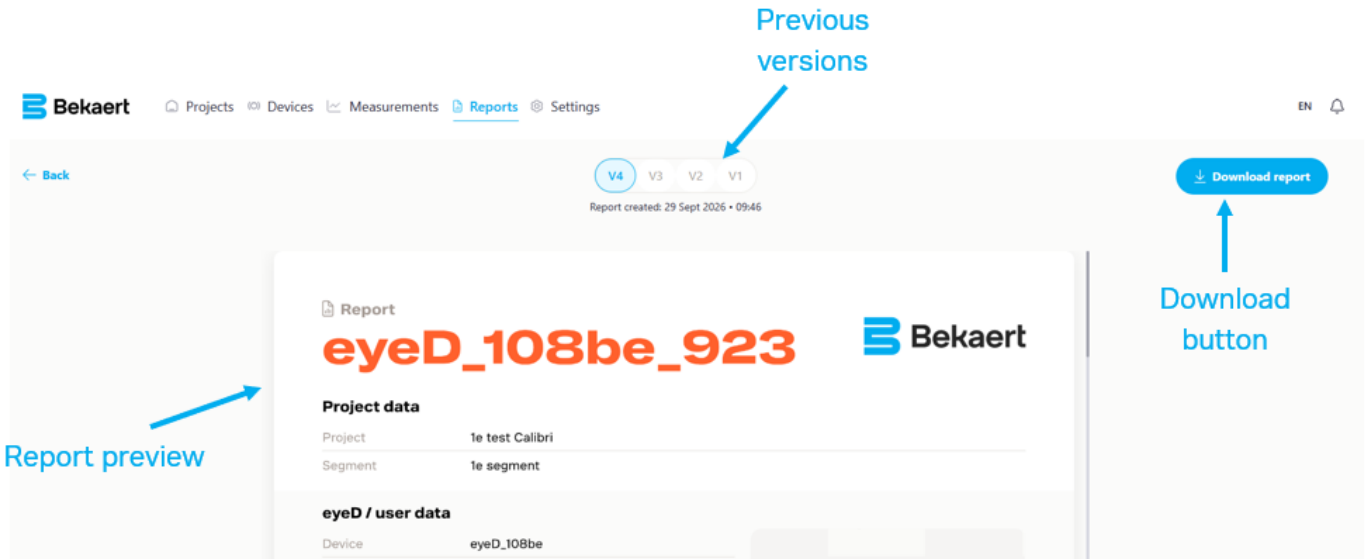
Reports list

All reports created on your account are listed in the Reports menu. You can browse through the list or search for the project you need using the filters or search field.



Report details

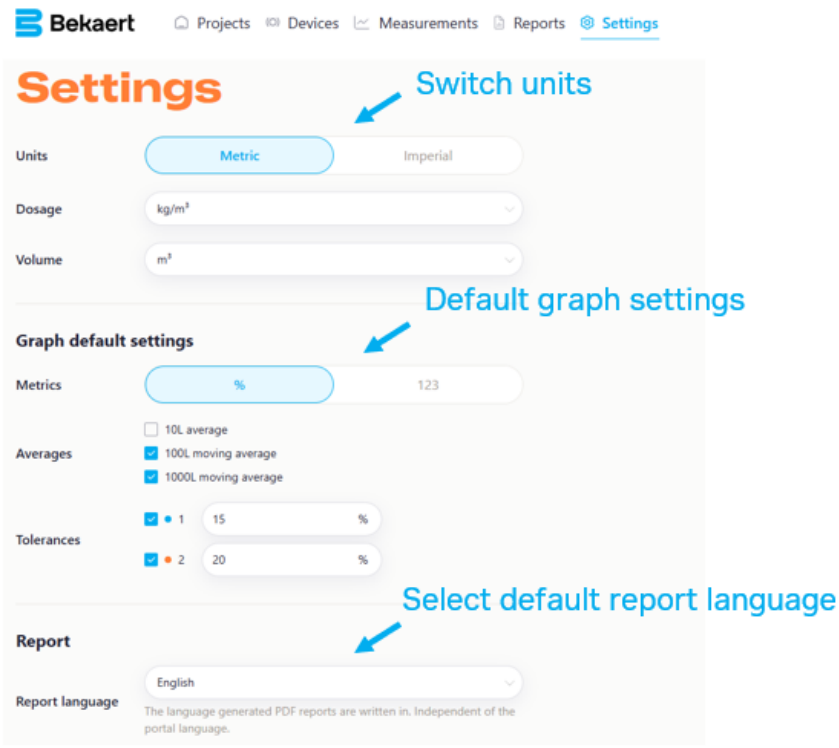
Selecting a report in the Reports list opens a preview of the report. A pdf version of this preview can be created using the “Download report” button. Old versions of reports are never deleted. They can still be consulted using the buttons above the preview.



Settings menu

The settings menu is where the default unit system and graph settings can be changed. This can always be overwritten on individual measurements.

The standard language in which reports are generated can be selected. This setting is independent of the language settings in the eyeD® Portal.



Frequently Asked Questions

1 **Are there limitations on the steel fibre dosage that can be measured?**
There are no limitations to the steel fibre dosage that can be detected with the eyeD Streamer.

2 **Does an eyeD® Streamer measure absolute fibre dosage?**
No, the eyeD® Streamer is a relative measurement used to judge the homogeneity of the distribution of steel fibres in a concrete mix. The output of the device is a relative deviation to the average amount of steel fibres in the mix.

3 **Does the test method follow any active standards? How does it relate to washout tests according to EN14721?**
The device follows no active standard test method, but it is accepted as a (normative) means to quantify the homogeneous fibre distribution in the Belgian annex for EN206, NBN B 15-001. A standard washout test determines the exact fibre dosage in a sample of typically 8-10 liters. Multiple washout samples are to be taken out of a concrete batch to quantify the homogeneity. A single eyeD® Streamer datapoint corresponds to a concrete volume of 10 liter. The eyeD® Streamer measures the entire concrete batch resulting in a more accurate representation of the fibre distribution.

3 **Why is the graph of my measurement not showing?**
This usually means one or more metadata fields have missing inputs. You can find out what's missing by expanding the menu next to the "Create Report" button in the measurement.

4 **Why can't I click the button to create a report?**
This usually means one or more metadata fields have missing inputs. You can find out what's missing by expanding the menu next to the "Create Report" button in the measurement.

5 **I have filled in all required info but still can't see a graph. What went wrong?**
When all metadata is provided to a measurement but still no graph is generated, this means the measurement data itself can't be processed. This can happen if the measurement was started when concrete was already flowing through the chute. Contact your Bekaert representative to see if anything can be retrieved from the measurement.

6 **Why can’t I see the GPS location of my measurement?**

The GPS antenna needs a clear view of the sky to be able to get an accurate position. If the device was not locked to sufficient GPS satellites during the measurement, no location is stored.

NV Bekaert SA
Bekaertstraat 2
BE-8550 Zwevegem
T +32 56 76 61 11
F +32 56 76 77 93

Modifications reserved
All details describe our products in general form only. For ordering and design only use official specifications and documents. Unless otherwise indicated, all trademarks mentioned in this manual are registered trademarks of NV Bekaert SA or its subsidiaries.
© Bekaert 2026 Responsible editor: NV Bekaert SA - 11 2026