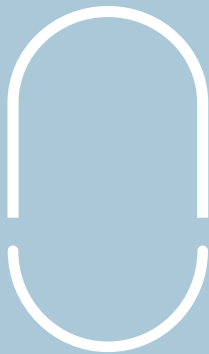


— THE-LILIAN —



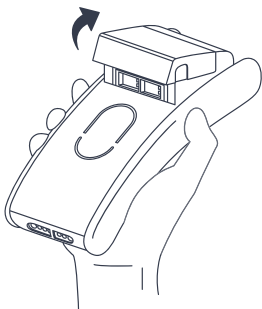
QUICK START GUIDE

EASY, FAST, PRECISE AND DIGITAL

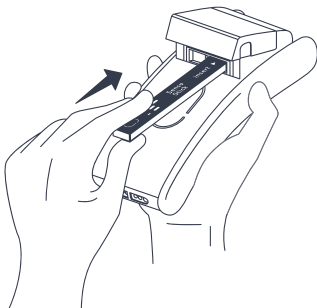
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## 1: DESCRIPTION OF THE MEASUREMENT PROCESS

1

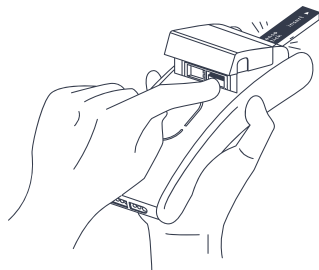


**Step 1:**  
Open the flap.

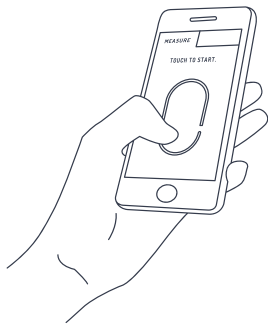


**Step 2:**  
Make sure to insert the SensoStick with the printed side up as demonstrated. Slide the SensoStick from back to front in one of the two slots.

**Important:**  
Avoid touching the front of the SensoStick!

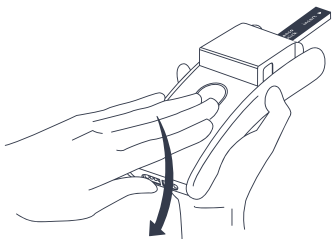
**Step 3:**

Push the SensoStick deep into the slot until you hear an audible click takes place. You can close the lid now.

**Step 4:**

Start the LILIAN Manager App to perform the measurement.

The app guide you through the measurement process. Details on the handling can be found in the separate manual "Manual LILIAN Software". You can download this at <https://lilianlabs.com/downloads>.

**Step 5:**

Swipe over the touch sensor, while the app searches for the LILIAN. During the process, a white light moves along the LED ring.

As soon as the smartphone has connected to the LILIAN, the LED ring turns white.

**Step 6:**

Now rinse the measuring cup with clear water. Take your water sample afterwards.

Make sure that the cup is filled as demonstrated in the picture. So the LILIAN can measure the sample in a correct way.

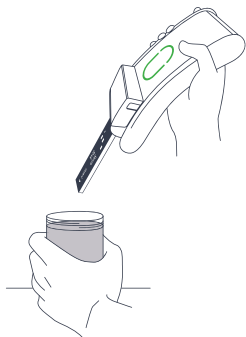
**Important:**

Avoid touching the water sample.

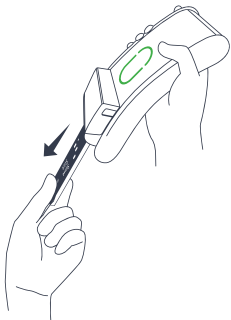
**Step 7:**

Push the measuring cup with open lid into the recess of the measuring holder. Then place the LILIAN with the inserted SensoStick on the measuring holder as shown in the picture on the left.

Now swipe the touch sensor of the LILIAN to start the measurement. If the device vibrates and lights up yellow, it is not correctly positioned in the measurement holder. In this case, please correct the position.

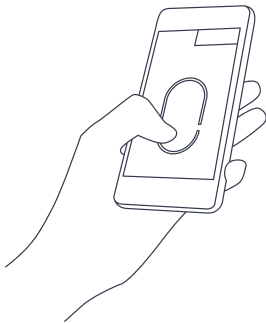
**Step 8:**

While preparing and analyzing the water sample, a white light moves along the LED ring. After the LED ring glows green, you can pull the LILIAN out of the water sample.

**Step 9:**

As soon as the led ring turns off, you can carefully pull the SensoStick out of the device from the front to remove it from the LILIAN.

Please do not push it out of the device in the direction of the illuminated ring under any circumstances.

**Step 10:**

A few seconds later, the measurement results are displayed on your smartphone.

The data will be automatically transferred to the LILIAN Manager database. You need to be logged in for this to work.

## 2: HANDLING TIPS



Use the measuring cup provided and make sure that the water level is correct. Here, the cup is not filled sufficiently. This means that the LILIAN cannot pump the water sample correctly into the SensoStick, resulting in an error message.



The cup should be filled with the water sample up to the thread.





Please do not touch the sample cup! Residues of your fingerprint cause the free chlorine in the water sample to react with the combined chlorine. This falsifies the measurement result.



This way, you hold the measuring cup just right.



The measuring cup must be sufficiently rinsed and cleaned before and after each measurement. Do not store the wet cups with the lid closed. This can cause germs to form, which can lead to an incorrect chlorine value at the next measurement.



We recommend storing the cups open and with the open side facing down, e.g. on kitchen roll, until they are dry. If you want to wipe the cups dry with a cloth, please take care not to get any particles or impurities into the cup. Replace the measuring cups after one month of use at the latest.



The SensoStick packs have a notch that allows you to open the pack easily. You therefore do not need scissors or other tools to open the packaging.



This means that you automatically grab the back of the SensoStick to avoid this problem.



The part of the stick that is in the water sample must not be touched. The free chlorine of the water sample will otherwise react with traces of the fingerprint on the SensoStick and you will measure increased combined chlorine values.



The stick is only ever touched at the back when it is inserted into the measuring device in order to prevent deviations in the measurement result.



In this example, the SensoStick is inserted from the wrong direction.



The SensoStick is always inserted into the opening of the LILIAN flap from behind.



The SensoStick must not be inserted with the printed side down.



The SensoStick is always inserted into one of the two slots with the printed side facing up.



The SensoStick is always pulled out of the slots of the LILIAN device from the back to the front.



Be careful not to remove the SensoStick from the shaft from front to back.

To avoid contamination, the LILIAN is designed in such a way that the wet part of the SensoStick does not have to be pushed through the shaft after a measurement.



The flap of the handheld meter must be closed for each measurement. This minimizes the influence of stray light.



In this example you can see a correct measurement with the closed flap of the LILIAN.





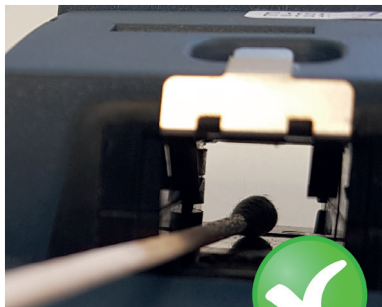
It should never be measured without the measuring holder, because the LILIAN must be in a vertical position during the whole measurement.



Here the LILIAN is placed in the special measuring holder. This has suitable recess and ensures that the LILIAN cannot change position during the measurement.



Always ensure that the measuring shaft is clean. Particles, moisture or heavy scratches can falsify the measuring result.

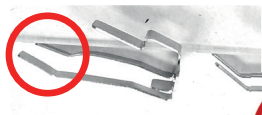


The easiest way to clean the measuring channels is with a cotton pad moistened with isopropanol. During cleaning, perform gentle, circular movements in the measuring slot.

We also recommend sending the device to the manufacturer for maintenance once a year.



The seals and springs in the LILIAN wear out over time and must be replaced regularly. Please replace them if they look like on the picture above.



The “legs” of the spring are pressed flat in the picture. You can find instructions about his topic on our website or contact us.



This is what functional springs and seals look like. Please check these elements as soon as the error message “No water sample could be taken.” is displayed to you for the first time.





Activate all necessary app approvals for the system to function smoothly. For Android, these are location (exact), Bluetooth, memory sharing, allow notifications and nearby devices.



**Important:** Lilian Labs does not read location data or use approvals for marketing purposes. The requested permissions are used exclusively for the technical functionality of the app.



For safety reasons, the device cannot be charged during a measurement. Therefore, remove the charging plug during the measurement.



Here the measurement can take place because the charger is not plugged in. A minimum charge level of 10% is required to perform a measurement.

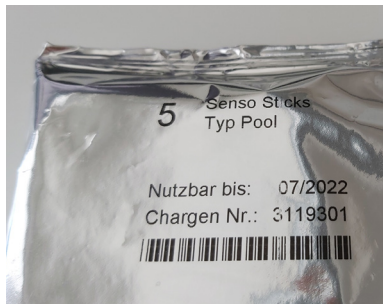


The storage temperature for the SensoSticks is 0-30 °C. However, we do not recommend storing them in the refrigerator, as they must first warm up to room temperature before they can be used. Otherwise, the SensoSticks will mist up and the measurement may be falsified.



Optimal storage for SensoSticks is at room temperature in an environment that is not too humid.

After opening the packaging, you should consume the SensoSticks within 7 days.



The SensoSticks have a best-before date indicated on the outer packaging. After the expiry date, the sticks can usually still be used, but there may be minimal measurement deviations.



In order to avoid expired SensoSticks, we recommend to estimate the consumption accurately. Unfortunately, Lilian Labs cannot exchange expired SensoSticks.



In very rare cases, the LILIAN measuring device may stop responding.

In this case, connect the device to the socket using the charging cable supplied. The software on the device will restart automatically.



If this does not help either, you must reset the LILIAN measuring device completely. To do this, bridge the two outer PINs of the 3-PIN combination on the device with a conductive object such as a paper clip, scissors or the springs from the maintenance kit. After approx. 1 second, the device vibrates and the reset is successful.



The LILIAN water analysis system has been tested by independent institutes and laboratories and offers unprecedented accuracy in the field of mobile water analysis. If you still have reason to question the results measured with LILIAN because the measured values are unexpected and inappropriate, you have two options:

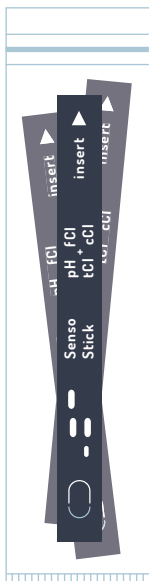


With the diagnostic kit, you can quickly and easily check whether your LILIAN measuring device is working correctly. You can quickly rule out a malfunction of the device.



You are also welcome to contact our support team. Even if there is no malfunction of the LILIAN, we would like to support you in measuring the daily hygiene parameters with our know-how.

### 3: RETURNING USED SENSOSTICKS



**Please collect the used SensoSticks. We also take back old devices sold by us.**

SensoSticks purchased directly from Lilian Labs can be returned by mail. If you have purchased the system from one of our sales partners, please clarify with them how the return process is organized.

Lilian Labs GmbH will then dispose of the devices properly and the SensoSticks will be sent for a quantity-dependent treatment or recycling process.

 20%-100%

 0-19%

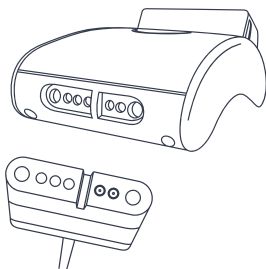
### 4.1 Checking the charge level

To check the charge level of the LILIAN, swipe the touch sensor without connecting via the app. If the LED ring is red, the battery level is less than 20%. Over 20%, the LED rings fills in 20% steps from 20% until 100%.

### 4.2 Charging the battery

The LILIAN must be recharged after about 100 measurements or 10 days in standby mode.

To charge the LILIAN, plug the supplied charging cable into the charging socket of the switched-off device. The LED ring then shows a blue charging animation. Charging time is approx. 1 hour.



## 5.1. Instruction videos

**TUTORIAL - Firmwareupdate**  
<https://youtu.be/1ESkHQExThw>



**TUTORIAL - Measurement with the LILIAN Manager**  
<https://youtu.be/4V9Xj5Mkkzl>



**TUTORIAL - Setup of the LILIAN Manager Dashboard**  
<https://youtu.be/J60ZBVrSiPI>



**TUTORIAL - Firmwareupdate LILIAN**  
<https://youtu.be/Sm8aFTYlqWE>



**SOLVING PROBLEMS: LILIAN does not react**

<https://youtu.be/92DzYDRIdcw>

**SOLVING PROBLEMS: Changing clamps and seals**

[https://youtu.be/dDnqYM\\_XD9g](https://youtu.be/dDnqYM_XD9g)



Our explanatory videos are constantly updated. Please visit <https://lilianlabs.com/en/videos/> to see all videos at a glance.

The videos have subtitles in different languages, for example french, spanish, swedish and more. Please use the subtitle feature of YouTube.

## 5.2 Support

If you have any further questions, please contact us:

Lilian Labs GmbH  
Salzdahlumer Str. 196  
38126 Braunschweig  
GERMANY



**TEL.+49 531 / 387 274 38**



**SUPPORT@LILIANLABS.COM**

At <https://lilianlabs.com/service/> you will also find instruction videos, instructions, brochures and safety data sheets.

## 5.3 Legal matter

**Privacy policy:** [lilianlabs.com/en/privacy-policy/](https://lilianlabs.com/en/privacy-policy/)

**General Delivery Conditions:** [lilianlabs.com/en/gdt/](https://lilianlabs.com/en/gdt/)

**Terms:** [lilianlabs.com/en/gtou/](https://lilianlabs.com/en/gtou/)

**Safety Data Sheet:** <https://lilianlabs.com/en/downloads-en/>

## 5.4 Technical data

Device typ	Integrated photometer for use in water analysis
Height	70mm
Width	88mm
Length	210mm
Weight	Approx. 350g
Parameter	Depending on SensoStick type
Battery type	2x Lithium polymer Akku
Battery runtime	100 Measurements
Battery runtime in Standby	10 days
Calibration	Automatic
Protection class	IP64, splash-proof
Light icon	LED
Charger	In: 230VAC / Out: 24VDC
Connection Type	Bluetooth

You can find the LILIAN apps in the Playstore or iOS Store.

## QUESTIONS?

Please do not hesitate to contact us:



TEL. +49 531 / 387 274 36



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Lilian Labs GmbH  
Salzdahlumer Strasse 196  
38126 Braunschweig  
GERMANY