



Scuba III Smart Pooltester



Lavibond Scuba III Smart Pooltester Instruction Manual

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Product Information

Specifications

- **Product Name:** Smart Pooltester Scuba III
- **Parameters List:** Free Chlorine, Total Chlorine, Combined Chlorine, Bromine, pH, Cyanuric Acid, Total Alkalinity, Calcium Hardness, Active Oxygen, Copper, Phosphate
- **Measuring Range:**
 - **Free Chlorine:** 0.1 – 6 mg/L
 - **Total Chlorine:** 0.1 – 6 mg/L
 - **Combined Chlorine:** 0.1 – 6 mg/L
 - **Bromine:** 0.2 – 13.5 mg/L
 - **pH:** 6.5 – 8.4 mg/L
 - **Cyanuric Acid:** 20 – 120 mg/L
 - **Total Alkalinity:** 5 – 300 mg/L
 - **Calcium Hardness:** 50 – 500 mg/L
 - **Active Oxygen:** 0.2 – 10 mg/L
 - **Copper:** 0.1 – 5 mg/L
 - **Phosphate:** 0.06 – 3 mg/L
- Range for safe swimming conditions (Green light): Free Chlorine: 0.3 – 4 mg/L

Product Usage Instructions

1. Battery Replacement:

- Use non-rechargeable batteries as specified in technical data.

- Ensure the instrument is dry before opening the battery compartment.
- Pay attention to the correct polarity while inserting batteries.
- Tighten the cover securely after battery replacement.
- Transfer measurement data before replacing batteries.

2. Disposal Instructions for Batteries and

Accumulators:

- Return used batteries and accumulators to designated facilities or shops selling batteries.
- Electrical equipment must not be disposed of with normal household waste; return to authorized disposal centers.

3. Important Safety Instructions:

- Read the manual carefully before use.
- The intended use is for chemical water testing only in non-commercial applications.
- Suitable for use in wet environments, both indoors and outdoors.

FAQs

Q: Can I use rechargeable batteries with the Smart Pooltester Scuba III?

A: No, only non-rechargeable batteries as specified in the technical data should be used to power the device.

Q: What is the measuring range for Free Chlorine in safe swimming conditions?

A: The recommended range for safe swimming conditions for Free Chlorine is between 0.3 - 4 mg/L, indicated by a green light on the device.

Q: Can the Smart Pooltester Scuba III be used for commercial applications?

A: No, this instrument is designed for non-commercial applications to determine dissolved matter in water through chemical testing and analysis only.

Parameters List

Parameter	Test name on display	Measuring Range
Free Chlorine	Cl F	0.1 – 6 mg/L
Total Chlorine	Cl T	0.1 – 6 mg/L
Combined Chlorine	Cl Comb.	0.1 – 6 mg/L
Bromine	Br	0.2 – 13.5 mg/L
pH	pH	6.5 – 8.4 mg/L
Cyanuric Acid	CyA	20 – 120 mg/L
Total Alkalinity	TA	5 -300 mg/L
Calcium Hardness	CaH	50 – 500 mg/L
Active Oxygen	O ₂ Act.	0.2 – 10 mg/L
Copper	Cu	0.1 – 5 mg/L
Phosphate	PO ₄	0.06 – 3 mg/L

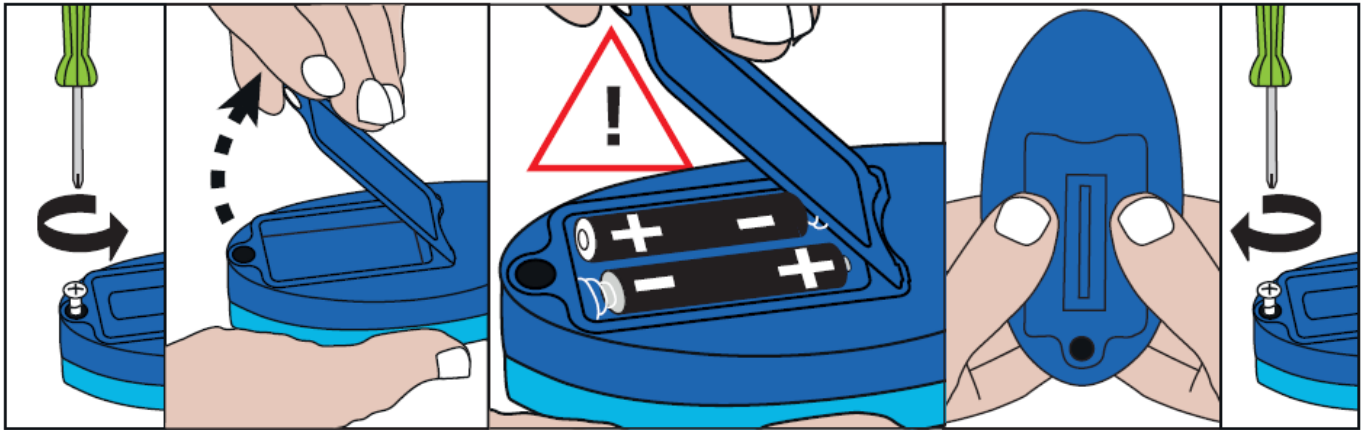
Range for safe swimming condition* (Green light)	Required Tablet Reagents
0.3 – 4 mg/L	DPD No.1
0.3 – 4.5 mg/L	DPD No.1 + DPD No.3 <i>Evo</i>
0 – 0.5 mg/L	DPD No.1 + DPD No.3 <i>Evo</i>
1.5 – 8.5 mg/L	DPD No.1
6.8 – 7.6 mg/L	Phenol Red Photometer
30 – 50 mg/L	CyA-Test
50 -150 mg/L	Alka-M-Photometer
175 – 400 mg/L	Calcio-H No.1 + Calcio-H No.2
3 – 8 mg/L	DPD No.4 <i>Evo</i>
0.05 – 0.3 mg/L	Copper No.1
0.06 – 0.25 mg/L	Phosphate No.1 LR + Phosphate No.2 LR

- These are globally considered measuring ranges for safe swimming.
- For individual pool control, users should always follow local regulations or recommendations by their Chemical suppliers.

Congratulations on your purchase of the Scuba3s. You are the owner of a state-of-the-art smart polyester for the analysis of poolwater quality with the latest technology.

Battery replacement

Notes/Caution



- Only use non-rechargeable batteries as specified in technical data.
- The instrument must be dry before opening the battery compartment.
- While inserting batteries, pay attention to the correct polarity of the batteries.
- Make sure that the cover is tightly screwed after batteries replacement.
- Please make sure to transfer measurement data before replacing batteries.

Important information for consumers in the EU

Disposal instructions for batteries and accumulators EC Guideline 2006/66/CE requires users to return all used and worn-out batteries and accumulators. They must not be disposed of in normal domestic waste. Your local authority may have a disposal facility; alternatively, you can hand them in at any shop selling batteries and accumulators. You can also return them to the company which supplied them to you; the company is obliged to accept them.

Disposal of electrical equipment

Due to the European Directive 2012/19/EU your electrical instrument must not be disposed of with normal household waste! Tintometer GmbH will dispose of your electrical instrument in a professional and environmentally responsible manner. This service, excluding the cost of transportation, is free of charge. Send your electrical Tintometer instruments for disposal freight prepaid to your supplier.

Important safety instructions

Read instructions before use

This manual provides important information on the safe operation of the product. Please read it carefully and familiarise yourself with the product before use.

Intended use:

This instrument is a battery-operated measuring device to determine dissolved matter in water for non-commercial applications. The instrument and reagents are intended to be used for chemical water testing and analysis only and may not be used for other purposes. For use inside and outside buildings. Suitable for use in wet environments.

Caution

The reagents are potentially harmful if they are swallowed. Do not swallow! Keep them out of the reach of children. Contact for Poison Center: www.lovibond.com

Requirements for safe use

Note the following points for safe use:

- If the product is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- The product may only be used under the ambient conditions mentioned in this operating manual.
- The housing of the product must not be opened or modified.

The product must not be used if:

- It is visibly damaged (e.g. after being transported)
- It was stored under adverse conditions for a lengthy period (ambient conditions, see "Technical Data")

Guidelines for photometric measurements

- Use only blister tablets with black printing.
- Always add the reagent tablets to the water sample straight from the foil without touching them with your fingers.
- Close the blue lid on top of the sample chamber tightly before zeroing/reading.
- Always ensure that the sample chamber, the lid, and the stirring rod are thoroughly rinsed when changing from one test to the other.

Maintenance guidelines

- Keep the instrument in a clean condition.
- No solvent, abrasive materials, or brushes should be used to clean the instrument. Clean the sample chamber using a soft tissue.
- Dry the instrument when not in use, and store it under the advised ambient conditions.
- Remove batteries and don't close the battery lid if the instrument is being stored for an extended period.

Instrument Overview

Rubber cap to shield against sunlight

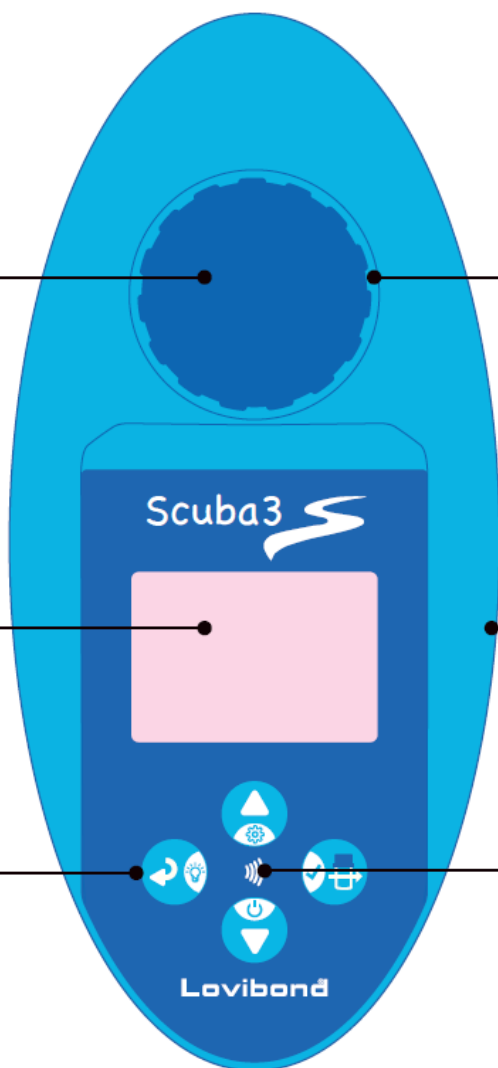
Integrated vial

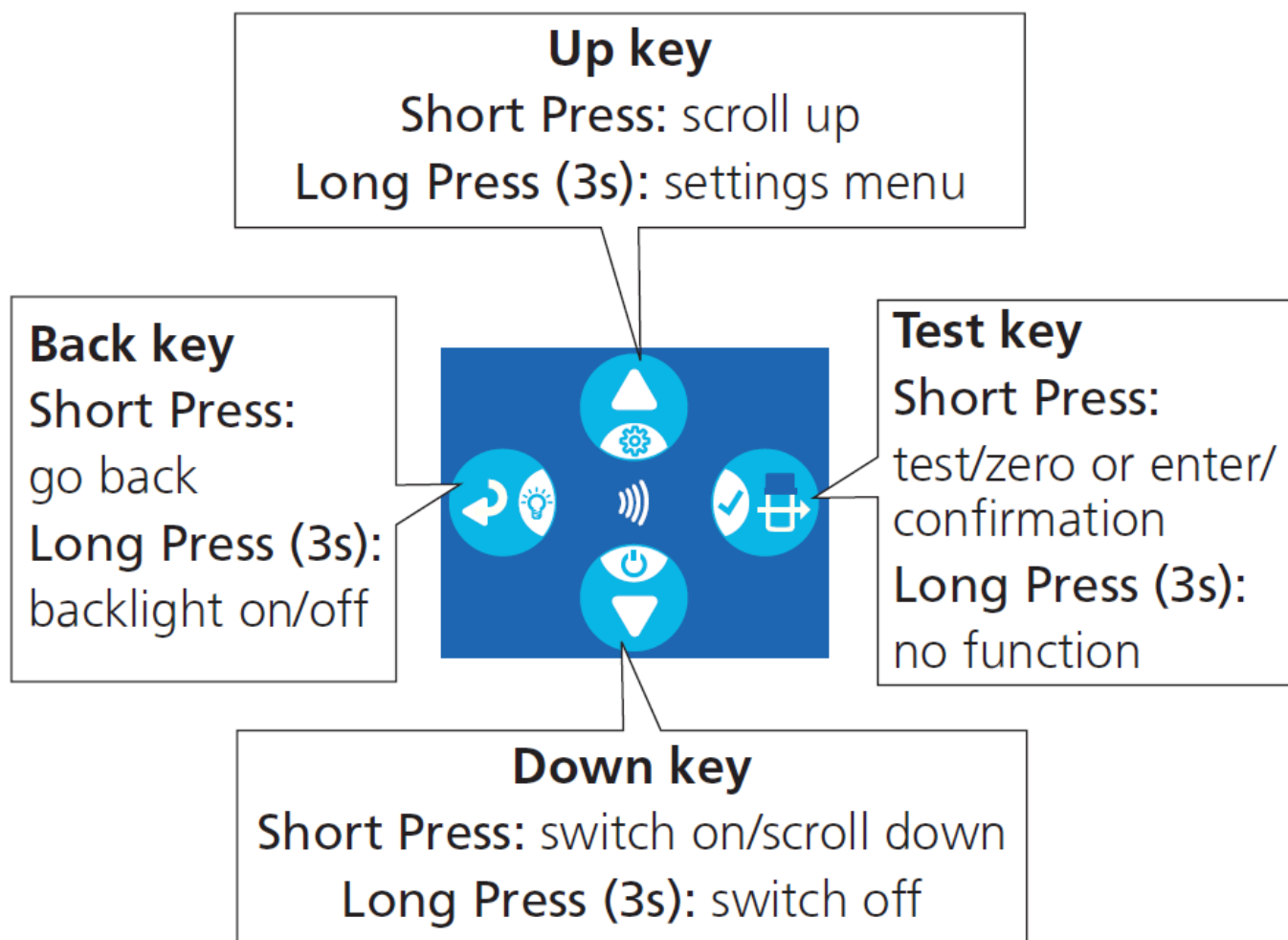
Backlit display with icons and animation

Waterproof housing

Simple keypad with dual functions

Wireless data transfer via NFC

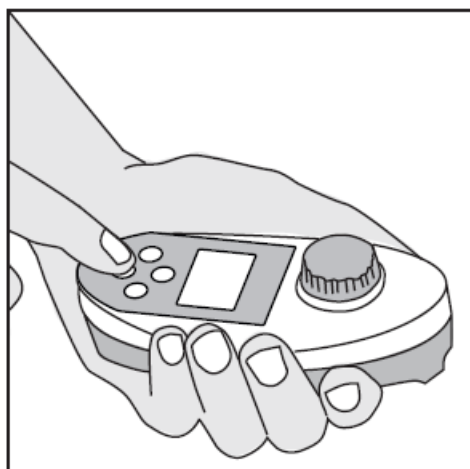




General Measurement procedure

Switch Scuba3s on:

- When not in use, Scuba3s turns off automatically after 5 minutes.
- To turn it off manually, press the Down key for 3 seconds.



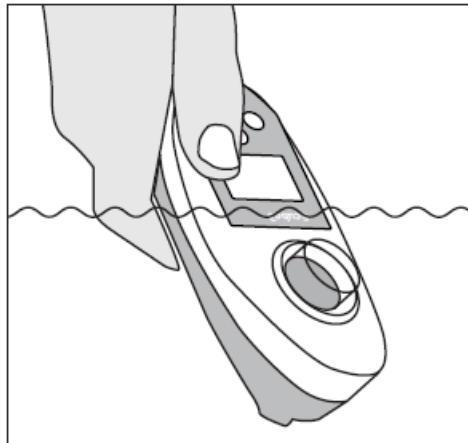
Select Parameters

- Select the parameter on the screen with the Test key or scroll up and down to select any other parameter.
- After parameter selection, the Scuba3s shows a “Zero measurement” screen.



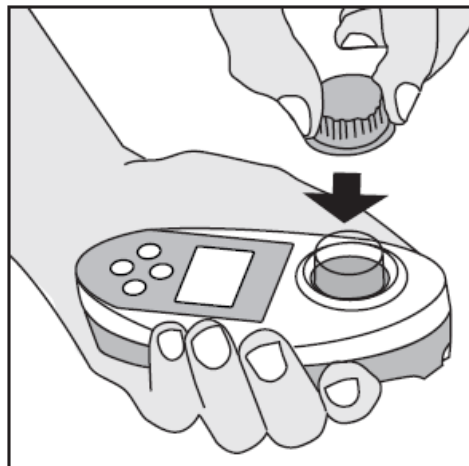
Collect Sample:

- Collect samples by dipping Scuba3s into pool water multiple times.
- Make sure the sample chamber is filled.



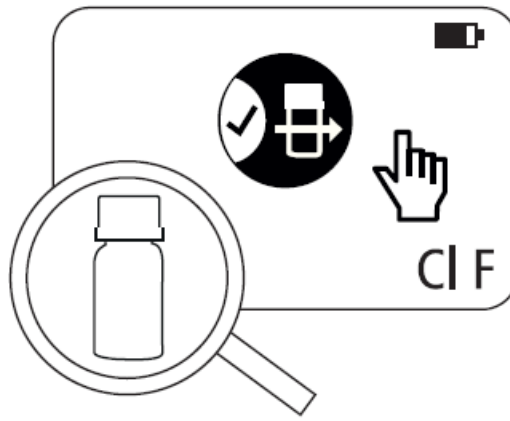
Cover measuring chamber

- Cover the measuring chamber with the rubber cap.
- Make sure that the chamber is tightly closed.



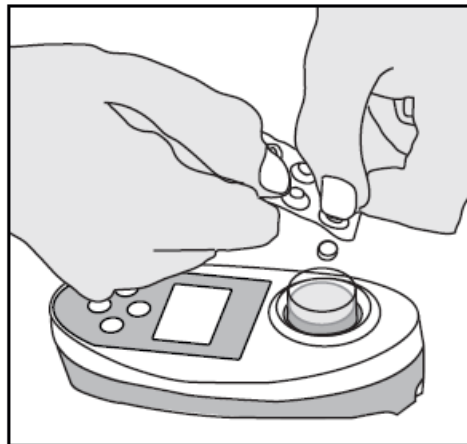
Perform Zero

- Zero measurement sets a reference point by eliminating the influence of the measuring chamber and sample. It is required to perform zero before each Test measurement.
- Press the Test key to perform zero. When finished, the icon on the left side of the display will change from empty vial to full vial.



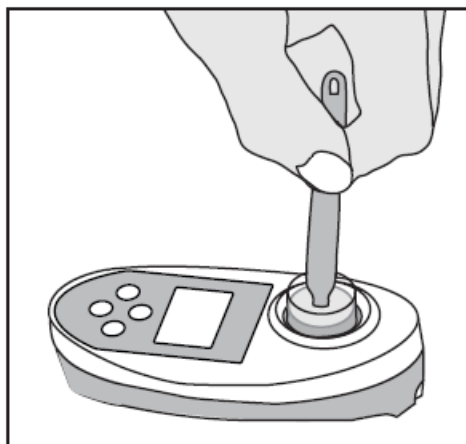
Add tablet

- Add tablet reagent directly from the blister by pressing from the top of the blister as shown in the picture.
- Refer to the parameters list on the first page to choose the appropriate reagents for each test.



Dissolve tablet

- Use a stirring rod delivered in Scuba3s Box to crush and dissolve the tablet.
- Make sure that the tablet is completely dissolved.



Perform Test

- Close the chamber with a rubber cap and swirl the device back and forth for approx. 15 seconds, do not shake it. Press the Test key to perform the test.
- Some parameters such as Cl.Comb requires two tests, in this case, 2nd test will follow the first test

immediately.



Reaction timers

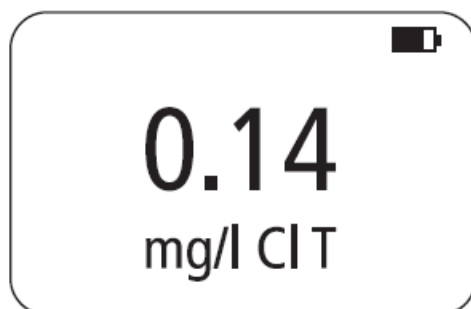
1. Cl F, Br, TA, CyA, pH: No timers
2. Cl T, O2 Act., CaH, Cu: 2 minutes
3. PO4: 10 minutes

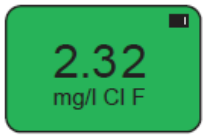
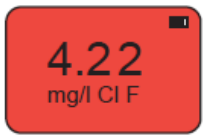




- Scuba3s has integrated timers which ensure that the reaction time between reagent and water sample is kept and colour is fully developed.
- Countdowns start automatically, and when finished, measurement takes place.
- You can skip timer by pressing Test key again, but it is not recommended.

Results

- The results are stored automatically.
- The results of some parameters can be switched into different forms (PO4 to P) by pressing the Up key. In the case of Cl Comb, press the Up / Down key to see the results of Cl F or Cl T.
- The instrument indicates if the water is safe for swimming or not.



	Indication of globally accepted measuring range for safe swimming.
	Indication of too low or too high measuring range for safe swimming.
	over range (Value is too high). Press Test key to confirm and go back.
	under range (value is too low to be detectable). Press Test key to confirm and go back.

Attention:

Please follow local regulations and recommendations provided by your chemical providers to know the ideal concentrations for your pool.

Settings

Scuba3s settings menu

- When in the home menu press the Up key for 3 seconds to enter the settings menu.
- Scroll through the list to see different setting options.
- Press the Test key to enter the sub-menu.



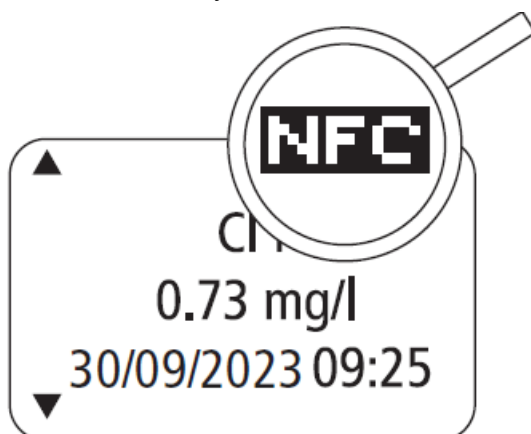
Results

- The latest results will be shown on screen.
- Scroll up or down to see the next results.
- Press the Back key to go back to the main settings menu.



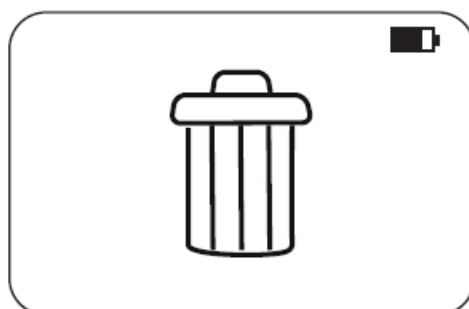
Transfer Results

- The instrument shows NFC next to the battery icon.
- Follow instructions from Lovibond® PoolAssistant App to receive data.
- **Note:** All data sets are transferred from the memory.



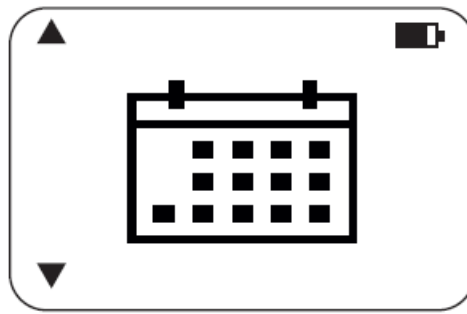
Delete results

- Press the Test key to select the data delete option.
- Press the Test key again to confirm the action.
- All results will be deleted.
- **Note:** Make sure to transfer all your results before deleting.



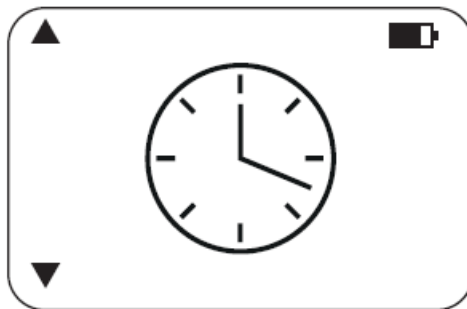
Date Setting

- Press the Test key to select the date setting.
- Scroll up or down to see other date formats or press the Test key to confirm.
- Press the Up or Down key to increase/ decrease the value.
- Press the Test key to confirm the value and move to the next entry.
- When the arrow is at the last entry, press the Test key to save the date.



Time Setting

- Press the Test key to select the time setting.
- Press the Up or Down key to increase/ decrease the value.
- Press the Test key to confirm and move to the next entry.
- When the arrow is at the last entry, press the Test key to save time.



Error Codes

- **E1** – Indicates an insufficient light on the detector.
- **E2** – Indicates calculation error.
- **E4** – Indicates invalid calibration.
- **E7** – Indicates method not found.



Technical Data

- **Optics:** Spectrometric sensor, multi-wavelength
- **Wavelength:** Multi
- **Display:** LCD Dot Matrix with Backlight
- **Interface:** NFC (Near Field Communication)
- **App Connectivity:** Lovibond®-PoolAssistant
- **Memory:** 100 data sets
- **Power Supply:** 2 x AA batteries (Mignon AA/LR6) 3V DC / 55mA

- **Battery Life:** 5000 measurements
- **Auto – Off:** 5 minutes
- **Protection class:** IPX7 according to DIN EN 60529
- **Conformity:** CE, UKCA
- **Warranty:** 2 years
- **Ambient conditions:**
 - **Temperature:** 10 – 50 °C
 - **Humidity:** 30 – 95 %
 - **Pollution degree:** 2
 - **Maximum altitude above sea level:** 3500 meters

Delivery Content

- 1 x Scuba 3s in a robust plastic case with a hanger
- 2 x AA batteries
- 1 Stirring rod
- 1 Instruction Manual
- 1 Blue lid

Reagents

- 20 x DPD No.1 tablets
- 10 x DPD No.3 Evo tablets
- 20 x Phenol Red Photometer tablets
- 10 x Alka-M-Photometer tablets
- 10 x CyA-Test tablets
- 10 x Calcio-H No.1 tablets
- 10 x Calcio-H No.2 tablets

List of Accessories & Reagents

- 525620 – Refill Pack Cl2-pH
- 525621 – Refill Pack Cl2-pH-Alka-m-CyA
- 525652 – Refill Pack Calcium Hardness
- 525651 – Refill Pack Active Oxygen
- 525653 – Refill Pack Copper
- 525654 – Refill Pack Phosphate
- 364107 – Stirring rod
- 364140 – Stirring rod 10er pack
- 19802218 – Blue lid



Tintometer GmbH

- Lovibond® Water Testing Schleefstraße 8-12 D-44287 Dortmund
- **Tel.:** +49(0)231-94510-0
- Technical changes without notice
- Printed in Germany 06/24
- **Update:** www.lovibond.com
- **No.:** 00387976-1

Documents / Resources



[Laviband Scuba III Smart Pooltester](#) [pdf] Instruction Manual
Scuba III, Scuba III Smart Pooltester, Smart Pooltester, Pooltester

References

- [Water Analysis | Color Measurement | Instruments](#)
- [User Manual](#)

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