WATER-I.D.®

WATER TESTING EQUIPMENT

PoolLAB 2.0®

PHOTOMETER

- User Manual
- Gebruiksaanwijzing
- Brugervejledning
- Brukerveiledning
- Användarhandbok

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Quick Guide starter på side 31
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V20

QUALITY REAGENTS
MADE IN GERMANY

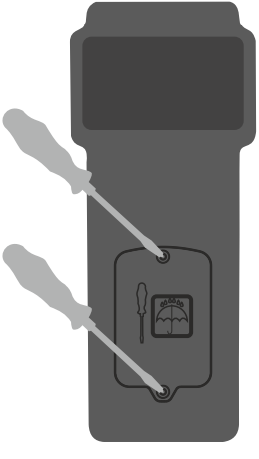
TEST – Instructions | Instructies | Vejledning | Instruksjoner | Instruktioner

1 x PoolLab 2.0®
1 x Light shield
3 x AA Batteries
3 x Crushing | Stirring Rods (white, blue, red)
1 x 10ml syringe
1 x Printed User Manual
1 x Collecting Bag (Nylon)
20 x Phenol Red Photometer tablets
20 x DPD N° 1 Photometer tablets
10 x DPD N° 3 Photometer tablets
10 x CYA–Test Photometer tablets
10 x Alkalinity–M Photometer tablets

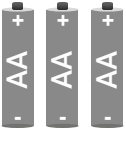
Poison Center Munich (24/7):
+49 (0) 89 – 19240 (German and English)

	Reagents for water analysis only! Do not eat! Keep out of reach of children! Store cool and dry!
	Reagentia alleen voor wateranalyse! Niet opeten! Buiten bereik van kinderen houden! Koel en droog bewaren!
	Reagenser kun til vandanalyse! Må ikke spises! Opbevares uden for børns rækkevidde! Opbevares køligt og tørt!
	Kun reagenser for vannanalyse! Må ikke spises! Oppbevares utilgjengelig for barn! Oppbevares kjølig og tørt!
	Reagenser endast för vattenanalys! Ät inte! Förvaras utom räckhåll för barn! Förvaras svalt och torrt!

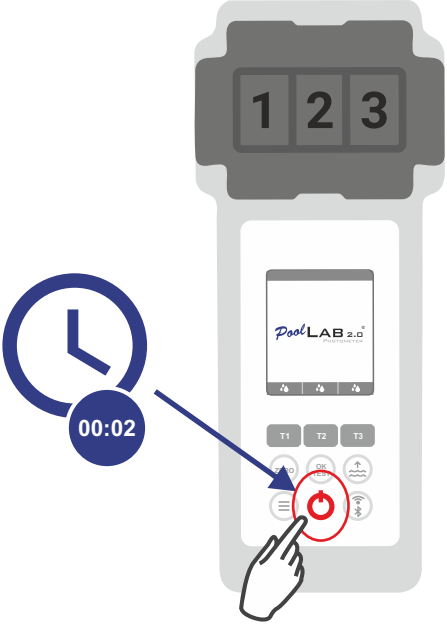
Change
Vervang
Skift
Bytt
Byt

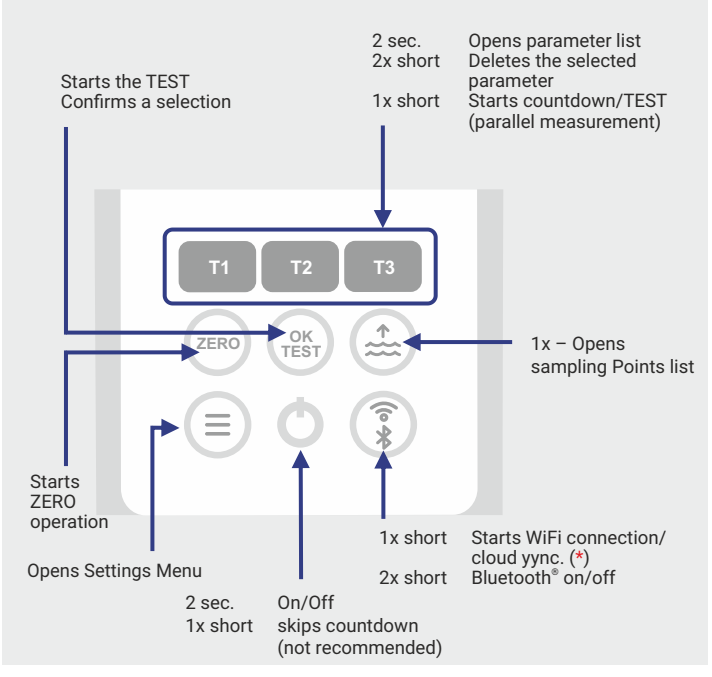


3 x AA



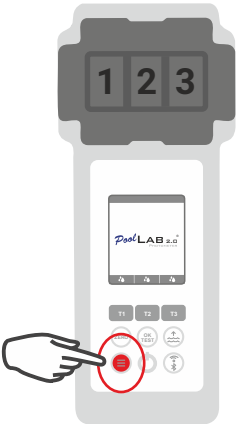
Do not use rechargeable batteries!
Gebruik geen oplaadbare batterijen!
Brug ikke genopladelige batterier!
Ikke bruk oppladbare batterier!
Använd inte uppladdningsbara batterier!

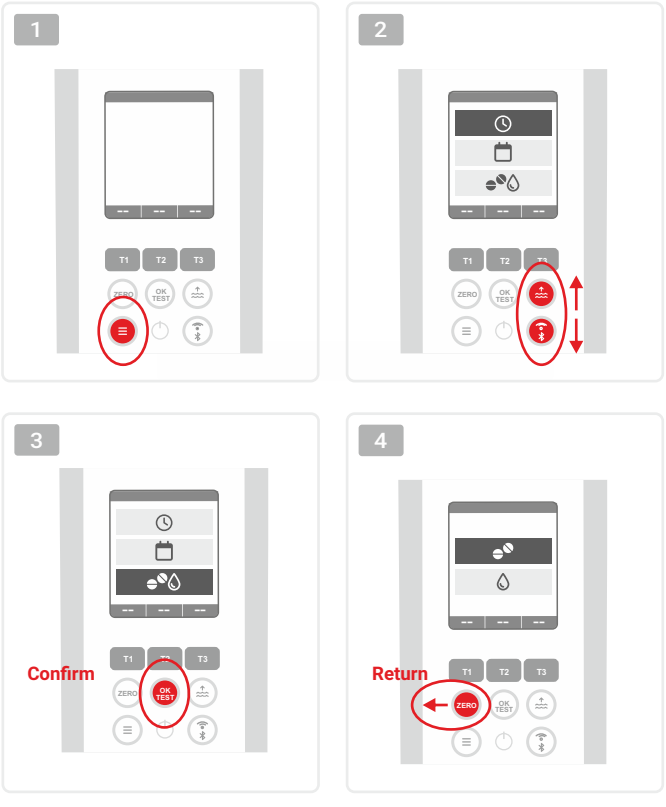

1 2 3
PoolLAB 2.0
T1
T2
T3
00:02



(*) requires that a WiFi-connection has been set up by using the LabCOM® App whilst the PoolLab 2.0 is connected to the App via Bluetooth®.
To synchronize with a cloud-account, a cloud account needs to be set up by using the LabCOM® App whilst the PoolLab 2.0 is connected to the App via Bluetooth®.

Device settings
Apparaatinstellingen
Enhedsindstillinger
Enhetsinnstillinger
Enhetsinställningar




1
T1
T2
T3
ZERO
OK TEST
2
3
Confirm
4
Return

Cloud | Moln

This is only an information menu! If cloud synchronisation is set up for your PoolLab 2.0® (to be set up via the LabCOM® app while the PoolLab 2.0® is connected to the app via Bluetooth®), the cloud account with which synchronisation is taking place is displayed here.

Dit is slechts een informatief menu! Als cloud synchronisatie is ingesteld voor uw PoolLab 2.0® (in te stellen via de LabCOM® app terwijl de PoolLab 2.0® via Bluetooth® verbonden is met de app), wordt hier het cloud account weergegeven waarmee de synchronisatie plaatsvindt.

Dette er kun en informationsmenu! Hvis cloud-synkronisering er indstillet for din PoolLab 2.0® (skal indstilles via LabCOM®-appen, mens PoolLab 2.0® er forbundet til appen via Bluetooth®), vises den cloud-konto, som synkroniseringen finder sted med, her.

Dette er kun en informasjonsmeny! Hvis skysynkronisering er konfigurert for din PoolLab 2.0® (konfigureres via LabCOM®-appen mens PoolLab 2.0® er koblet til appen via Bluetooth®), vises skykontoen som synkroniseringen foregår med her.

Detta är endast en informationsmeny! Om molnsynkronisering har ställts in för din PoolLab 2.0® (ställs in via LabCOM®-appen medan PoolLab 2.0® är ansluten till appen via Bluetooth®) visas här det molnkonto med vilket synkroniseringen sker.

WiFi

This is only an information menu! If a WiFi connection is set up for the PoolLab 2.0® (set up via the LabCOM® app whilst the PoolLab 2.0® is connected to the app via Bluetooth®), the WiFi network which is used for the synchronisation is displayed here.

Dit is slechts een informatief menu! Als er een WiFi-verbinding is ingesteld voor de PoolLab 2.0® (ingesteld via de LabCOM®-app terwijl de PoolLab 2.0® via Bluetooth® met de app is verbonden), wordt hier het WiFi-netwerk weergegeven dat voor de synchronisatie wordt gebruikt.

Dette er kun en informationsmenu! Hvis der er oprettet en WiFi-forbindelse til PoolLab 2.0® (oprettet via LabCOM®-appen, mens PoolLab 2.0® er forbundet til appen via Bluetooth®), vises det WiFi-netværk, der bruges til synkroniseringen, her.

Dette er kun en informasjonsmeny! Hvis en WiFi-tilkobling er satt opp for PoolLab 2.0® (satt opp via LabCOM®-appen mens PoolLab 2.0® er koblet til appen via Bluetooth®), vises WiFi-nettverket som brukes til synkroniseringen her.

Detta är endast en informationsmeny! Om en WiFi-anslutning har ställts in för PoolLab 2.0® (inställd via LabCOM®-appen medan PoolLab 2.0® är ansluten till appen via Bluetooth®), kommer det WiFi-nätverk som används för synkroniseringen används visas här.

Time | Tijd | Tid

The date and time are automatically corrected when the PoolLab 2.0® is connected (Bluetooth®) to the LabCOM® app. In this menu you can choose between the 12h format (e.g. 02:00 PM) or the 24h format (e.g. 14:00).

De datum en tijd worden automatisch gecorrigeerd wanneer de PoolLab 2.0® is verbonden (Bluetooth®) met de LabCOM® app. In dit menu kunt u kiezen tussen het 12h formaat (bijv. 02:00 PM) of het 24h formaat (bijv. 14:00).

Dato og klokkeslæt korrigeres automatisk, når PoolLab 2.0® er forbundet (Bluetooth®) med LabCOM®-appen. I denne menu kan du vælge mellem 12h-formatet (f.eks. kl. 02:00 PM) eller 24h-formatet (f.eks. kl. 14:00).

Dato og klokkeslett korrigeres automatisk når PoolLab 2.0® er koblet (Bluetooth®) til LabCOM®-appen. I denne menyen kan du velge mellom 12h-formatet (f.eks. 02:00 PM) eller 24h-formatet (f.eks. 14:00).

Datum och tid korrigeras automatiskt när PoolLab 2.0® är ansluten (Bluetooth®) till LabCOM®-appen. I den här menyn kan du välja mellan 12h-formatet (t.ex. 02:00 PM) eller 24h-formatet (t.ex. 14:00).

Date | Datum | Dato | Datum

The date and time are automatically corrected when the PoolLab 2.0® is connected (Bluetooth®) to the LabCOM® app. In this menu you can choose between option 1 (MM/DD/YYYY - example 09/27/2023) and option 2 (DD/MM/YYYY - example 27/09/2023).

De datum en tijd worden automatisch gecorrigeerd wanneer de PoolLab 2.0® is verbonden (Bluetooth®) met de LabCOM® app. In dit menu kunt u kiezen tussen optie 1 (MM/DD/JJ - voorbeeld 09/27/2023) en optie 2 (DD/MM/JJ - voorbeeld 27/09/2023).

Dato og klokkeslæt korrigeres automatisk, når PoolLab 2.0® er forbundet (Bluetooth®) med LabCOM®-appen. I denne menu kan du vælge mellem indstilling 1 (MM/DD/YYYYYY - eksempel 09/27/2023) og indstilling 2 (DD/MM/YYYYYY - eksempel 27/09/2023).

Dato og klokkeslett korrigeres automatisk når PoolLab 2.0® er koblet (Bluetooth®) til LabCOM®-appen. I denne menyen kan du velge mellom alternativ 1 (MM/DD/ÅÅÅÅ - eksempel 27.09.2023) og alternativ 2 (DD/MM/ÅÅÅÅ - eksempel 27.09.2023).

Datum och tid korrigeras automatiskt när PoolLab 2.0® är ansluten (Bluetooth®) till LabCOM®-appen. I den här menyn kan du välja mellan alternativ 1 (MM/DD/YYYYYY - exempel 09/27/2023) och alternativ 2 (DD/MM/YYYYYY - exempel 27/09/2023).

pH | fCl_2 | tCl_2 | cCl_2 | Br_2 | ClO_2 | O_3

Tablet– and liquid mode | Tablet- en vloeibare modus |
Tablet- og væsketilstand | Tablett- og flytende modus | Tablet- och vätskeläge

Some parameters (see listed above) can be measured on the PoolLab 2.0® with both tablet reagents and liquid reagents. Select between tablet and liquid mode in the menu. The liquid reagents may only be used in liquid mode, otherwise incorrect results will be measured! The selected mode is indicated by a symbol in the status bar (top of the screen).

Sommige parameters (zie bovenstaande lijst) kunnen op de PoolLab 2.0® zowel met tabletreagentia als met vloeibare reagentia worden gemeten. Kies in het menu tussen tablet- en vloeistofmodus. De vloeibare reagentia mogen alleen in vloeistofmodus worden gebruikt, anders worden onjuiste resultaten gemeten! De geselecteerde modus wordt aangegeven door een symbool in de statusbalk (boven in het scherm).

Nogle parametre (se listen ovenfor) kan måles på PoolLab 2.0® med både tabletreagenser og flydende reagenser. Vælg mellem tablet- og væsketilstand i menuen. De flydende reagenser må kun anvendes i flydende tilstand, da der ellers måles forkerte resultater! Den valgte tilstand angives med et symbol i statuslinjen (øverst på skærmen).

Noen parametere (se listen over) kan måles på PoolLab 2.0® med både tablettreagenser og flytende reagenser. Velg mellom tablett- og væskemodus i menyen. De flytende reagensene kan bare brukes i væskemodus, ellers vil det måles feil resultater! Den valgte modusen vises med et symbol i statuslinjen (øverst på skjermen).

Vissa parametrar (se listan ovan) kan mätas i PoolLab 2.0® med både reagens i tablettform och flytande reagens. Välj mellan tablett- och vätskeläge i menyn. De flytande reagenserna får endast användas i flytande läge, annars mäts felaktiga resultat! Det valda läget indikeras av en symbol i statusfältet (högst upp på skärmen).

Sampling points | Prøvetagningssteder | Prøvetakingspunkter
Prøvetakingspunkter | Provtagningsställen

In the LabCOM® app you can create sampling points (e.g. "Pool 1", "Pool 2") and then transfer them to the PoolLab 2.0® with an existing Bluetooth® connection. In this menu you can select the sampling point under which the following measurements are to be saved. The name of the selected sampling point is also displayed on the top left of the start screen.

In de LabCOM® app kunt u monsterpunten aanmaken (bijv. "Pool 1", "Pool 2") en deze vervolgens met een bestaande Bluetooth®-verbinding overbrengen naar de PoolLab 2.0®. In dit menu kunt u het bemonsteringspunt selecteren waaronder de volgende metingen moeten worden opgeslagen. De naam van het geselecteerde meetpunt wordt ook linksboven in het startscherm weergegeven.

I LabCOM®-appen kan du oprette prøveudtagningssteder (f.eks. "Pool 1", "Pool 2") og derefter overføre dem til PoolLab 2.0® med en eksisterende Bluetooth®-forbindelse. I denne menu kan du vælge det prøvetagningspunkt, under hvilket de følgende målinger skal gemmes. Navnet på det valgte prøveudtagningssted vises også øverst til venstre på startskærmen.

I LabCOM®-appen kan du opprette prøvetakingspunkter (f.eks. "Pool 1", "Pool 2") og deretter overføre dem til PoolLab 2.0® med en eksisterende Bluetooth®-tilkobling. I denne menyen kan du velge prøvetakingspunktet som de følgende målingene skal lagres under. Navnet på det valgte prøvetakingspunktet vises også øverst til venstre på startskjermen.

I LabCOM®-appen kan du skapa provtagningspunkter (t.ex. "Pool 1", "Pool 2") och sedan överföra dem till PoolLab 2.0® med en befintlig Bluetooth®-anslutning. I den här menyn kan du välja den provtagningspunkt under vilken följande mätningar ska sparas. Namnet på den valda provtagningspunkten visas också uppe till vänster på startskärmen.

Display brightness | Helderheid van het scherm | Lysstyrke på displayet
Skjermens lysstyrke | Skärmens ljusstyrka

Here you can set the brightness of the PoolLab 2.0® display. The brighter the display is set, the higher the power consumption of the PoolLab 2.0®.

Hier kunt u de helderheid van het PoolLab 2.0® -display instellen. Hoe helderder het display is ingesteld, hoe hoger het stroomverbruik van de PoolLab 2.0®.

Her kan du indstille lysstyrken på PoolLab 2.0®-displayet. Jo lysere displayet er indstillet, jo højere er PoolLab 2.0®'s strømforbrug.

Her kan du stille inn lysstyrken på PoolLab 2.0®-skjermen. Jo lysere displayet er innstilt, desto høyere er strømforbruket til PoolLab 2.0®.

Här kan du ställa in ljusstyrkan på PoolLab 2.0®-displayen. Ju ljusare displayen är inställd, desto högre strömförbrukning har PoolLab 2.0®.

Calibration | Kalibratie | Kalibrering

If the measurement results obtained do not correspond to the expected results you can, and if the cuvette is changed you MUST, carry out a calibration. Please follow the steps indicated on the following pages.

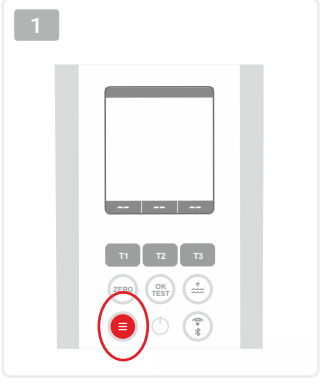
Indien de verkregen meetresultaten niet overeenkomen met de verwachte resultaten kunt u, en indien de kuvette wordt vervangen MOET u een kalibratie uitvoeren. Volg de op de volgende pagina's aangegeven stappen.

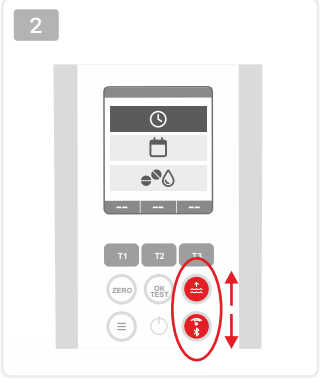
Hvis de opnåede måleresultater ikke svarer til de forventede resultater, kan du foretage en kalibrering, og hvis du skifter kuvette, SKAL du foretage en kalibrering. Følg venligst de trin, der er angivet på de følgende sider.

Hvis de oppnådde måleresultatene ikke samsvarer med de forventede resultatene du kan, og hvis kyvetten skiftes, MÅ du utføre en kalibrering. Følg trinnene som er angitt på de følgende sidene.

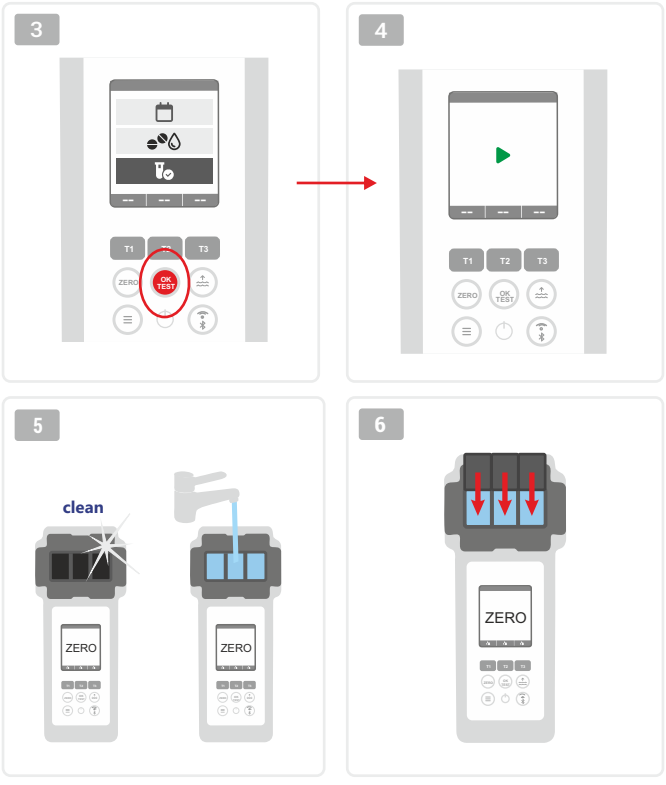
Om de erhållna mätresultaten inte motsvarar de förväntade resultaten kan du, och om kyvetten byts ut MÅSTE du, utföra en kalibrering. Följ de steg som anges på följande sidor.

Calibration | Kalibratie | Kalibrering



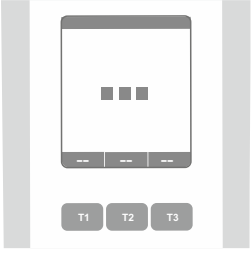


Calibration | Kalibratie | Kalibrering

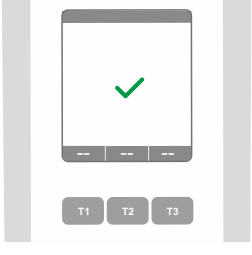


7

8



9



Advices
Adviezen
Råd

ONLY SINGLE

The parameter to be measured may only be measured stand-alone (so NOT in parallel with other parameters).
De te meten parameter mag alleen stand-alone (dus NIET parallel met andere parameters) worden gemeten.
Den parameter, der skal måles, må kun måles selvstændigt (altså IKKE parallelt med andre parametre).
Parameteren som skal måles, kan bare måles frittstående (altså IKKE parallelt med andre parametere).
Den parameter som ska mätas får endast mätas fristående (alltså INTE parallellt med andra parametrar).

ONLY CHAMBER 2

The parameter to be measured may only be measured in the middle measuring chamber (2).
De te meten parameter mag alleen in de middelste meetkamer (2) worden gemeten.
Den parameter, der skal måles, må kun måles i det midterste målekammer (2).
Parameteren som skal måles, kan bare måles i det midtre målekammeret (2).
Den parameter som ska mätas får endast mätas i den mellersta mätkammaren (2).

To prevent cross-contamination, your PoolLab 2.0® comes with 3 different coloured stirring rods. It is recommended to not use the same stirring rod (e.g. just the white one) when performing parallel measurements, but to use a different one for each chamber.

Om kruisbesmetting te voorkomen wordt uw PoolLab 2.0® geleverd met 3 verschillende gekleurde roerstaafjes. Het wordt aanbevolen niet dezelfde roerstaaf (bijv. alleen de witte) te gebruiken bij parallelle metingen, maar voor elke kamer een andere te gebruiken.

For at undgå krydskontaminering leveres din PoolLab 2.0® med 3 forskellige farvede omrøringsstave. Det anbefales ikke at bruge den samme omrøringsstang (f.eks. kun den hvide), når der udføres parallelle målinger, men at bruge en anden til hvert kammer.

For å forhindre krysskontaminering leveres PoolLab 2.0® med 3 forskjellige fargede rørepinner. Det anbefales å ikke bruke den samme omrøringsstangen (f.eks. bare den hvite) når du utfører parallelle målinger, men å bruke en annen for hvert kammer.

För att förhindra korskontaminering levereras PoolLab 2.0® med tre olika färgade omrörningsstavar. Det rekommenderas att man inte använder samma omrörningsstav (t.ex. bara den vita) när man utför parallella mätningar, utan att man använder en annan för varje kammare.

PHOTOMETER

RAPID

	Always use PHOTOMETER grade tablets! Never use RAPID grade tablets! RAPID tablets lead to incorrect measurement results! Do not touch reagent tablets!
	Gebruik altijd PHOTOMETER tabletten! Gebruik nooit RAPID tabletten! RAPID tabletten leiden tot onjuiste meetresultaten! Raak reagens tabletten niet aan!
	Brug altid tabletter af PHOTOMETER-kvalitet! Brug aldrig tabletter af RAPID-kvalitet! RAPID-tabletter fører til forkerte måleresultater! Rør ikke ved reagenstabletter!
	Bruk alltid tabletter av typen PHOTOMETER! Bruk aldri tabletter av RAPID-kvalitet! RAPID-tabletter fører til feil måleresultater! Ikke berør reagenstabletter!
	Använd alltid tabletter av PHOTOMETER-kvalitet! Använd aldrig tabletter av RAPID-kvalitet! RAPID-tabletter leder till felaktiga mätresultat! Rör inte vid reagenstabletter!

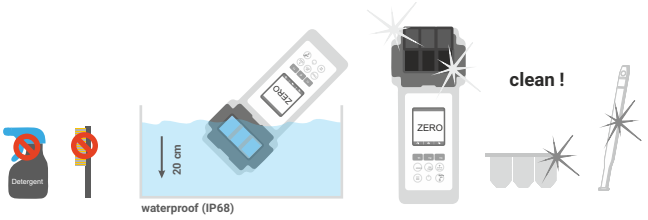
1) The date of your PoolLab 2.0® is preset when delivered, but may differ from your time zone. The date and time can be changed via the free LabCOM® app (Bluetooth® connection). If the battery change takes longer than 2 minutes or batteries are inserted incorrectly, the date will be deleted. **2)** Ideal values: Please contact the supplier of your pool chemistry to ask for ideal values for your pool. **3)** Scratched cuvette: As long as the cuvette is not scratched in the upper half but only in the bottom area, it does not need to be changed. **4)** Please crush tablets vigorously with the stirring rod. The cuvette will not break **5)** Total chlorine may well be displayed lower than the free chlorine within the tolerances shown in these instructions. **6)** Humidity in the display: Can occur if the residual humidity in the housing condenses due to the cold water during immersion.

1) De datum van uw PoolLab 2.0® is vooraf ingesteld bij levering, maar kan afwijken van uw tijdzone. De datum en tijd kunnen worden gewijzigd via de gratis LabCOM®-app (Bluetooth®-verbinding). Als de batterijwissel langer dan 2 minuten duurt of de batterijen verkeerd worden geplaatst, wordt de datum gewist. **2)** Ideale waarden: Neem contact op met de leverancier van uw zwembadchemie om de ideale waarden voor uw zwembad op te vragen.
3) Beschadigde cuvette: Zolang de cuvette niet bekrast is in de bovenste helft maar alleen in het onderste gedeelte, hoeft deze niet vervangen te worden.
4) Verpletter de tabletten krachtig met de roerstaaf. De cuvette zal niet breken
5) Het is mogelijk dat het totale chloor lager wordt weergegeven dan het vrije chloor binnen de in deze gebruiksaanwijzing aangegeven toleranties.
6) Vochtigheid in de weergave: Kan optreden als de restvochtigheid in de behuizing condenseert door het koude water tijdens de onderdompeling.

1) Datoen for din PoolLab 2.0® er forudindstillet ved levering, men kan afvige fra din tidszone. Dato og klokkeslæt kan ændres via den gratis LabCOM®-app (Bluetooth®-forbindelse). Hvis batteriskiftet tager mere end 2 minutter, eller hvis batterierne er sat forkert i, slettes datoen. **2)** Ideelle værdier: Kontakt leverandøren af din poolkemi for at få oplyst de ideelle værdier for din pool. **3)** Ridset kuvette: Så længe kuvetten ikke er ridset i den øverste halvdel, men kun i det nederste område, behøver den ikke at blive skiftet.
4) Knus tabletterne kraftigt med omrøringsstangen. Kuvetten vil ikke gå i stykker
5) Totalklor kan godt vises lavere end frit klor inden for de tolerancer, der er angivet i denne vejledning.
6) Fugtighed i displayet: Kan forekomme, hvis den resterende fugtighed i huset kondenserer på grund af det kolde vand under nedsænkning.

1) Datoen på din PoolLab 2.0® er forhåndsinnstilt ved levering, men kan avvike fra din tidssone. Dato og klokkeslett kan endres via den gratis LabCOM®-appen (Bluetooth®-tilkobling). Hvis batteribyttet tar mer enn 2 minutter eller batteriene settes inn feil, slettes datoen.
2) Ideelle verdier: Ta kontakt med leverandøren av bassengkjemien din for å be om ideelle verdier for ditt basseng.
3) Riper i kyvetten: Så lenge kyvetten ikke er ripet i den øvre halvdelen, men bare i bunnområdet, trenger den ikke å skiftes ut.
4) Knus tablettene kraftig med rørepinnen. Kyvetten vil ikke gå i stykker
5) Total klor kan godt vises lavere enn fritt klor innenfor toleransene vist i disse instruksjonene.
6) Fuktighet i displayet: Kan oppstå hvis restfuktigheten i huset kondenserer på grunn av det kalde vannet under nedsenking.

1) Datumet för din PoolLab 2.0® är förinställt när den levereras, men kan skilja sig från din tidszon. Datum och tid kan ändras via den kostnadsfria LabCOM®-appen (Bluetooth®-anslutning). Om batteribyte tar längre tid än 2 minuter eller om batterierna sätts in felaktigt raderas datumet.
2) Idealvärden: Kontakta leverantören av din poolkemi för att fråga efter idealvärden för din pool.
3) Repad kuvett: Så länge kuvetten inte är repad i den övre halvan utan endast i bottenområdet behöver den inte bytas ut.
4) Krossa tabletterna kraftigt med omrörningsstaven. Kuvetten kommer inte att gå sönder.
5) Totalklor kan mycket väl visas lägre än fritt klor inom de toleranser som anges i dessa anvisningar.
6) Luftfuktighet i displayen: Kan uppstå om den kvarvarande fuktigheten i höljet kondenserar på grund av det kalla vattnet under nedsänkning.



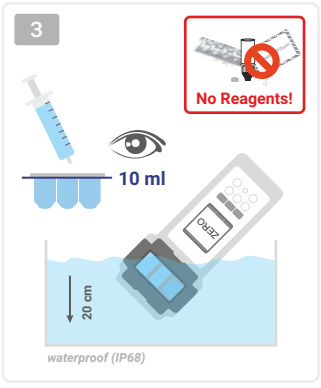
	It is important to clean the device after each measurement to get rid of any reagent residues! Please ensure that the cuvette has been cleaned before each measurement (e.g. under clear water/or simply rinsing the cuvette in the pool is sufficient as long as no residues remain). Do NOT use any cleaning agents!
	Het is belangrijk het apparaat na elke meting te reinigen om eventuele reagensresten te verwijderen! Zorg ervoor dat de cuvette voor elke meting is gereinigd (bijv. onder helder water of gewoon de cuvette in het zwembad afspoelen is voldoende zolang er geen resten achterblijven). Gebruik GEEN reinigingsmiddelen!
	Det er vigtigt at rengøre apparatet efter hver måling for at fjerne eventuelle reagensrester! Sørg for, at kuvetten er blevet rengjort før hver måling (f.eks. under klart vand og/eller en simpel skylning af kuvetten i bassinet er tilstrækkeligt, så længe der ikke er rester tilbage). Der må IKKE anvendes rengøringsmidler!
	Det er viktig å rengjøre enheten etter hver måling for å bli kvitt eventuelle reagensrester! Forsikre deg om at kyvetten er rengjort før hver måling (f.eks. under klart vann/eller bare skylling av kyvetten i bassenget er tilstrekkelig så lenge det ikke er noen rester igjen). IKKE bruk rengjøringsmidler!
	Det är viktigt att rengöra apparaten efter varje mätning för att få bort eventuella reagensrester! Se till att kuvetten har rengjorts före varje mätning (t.ex. under klart vatten eller så räcker det med att skölja kuvetten i bassängen så länge inga rester finns kvar). Använd INTE några rengöringsmedel!

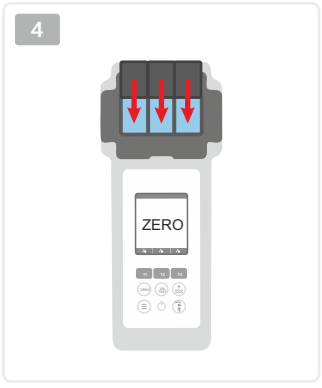
	Do not leave the device in the sun!
	Laat het apparaat niet in de zon liggen!
	Lad ikke apparatet ligge i solen!
	Ikke la enheten ligge i solen!
	Lämna inte apparaten i solen!

	The PoolLab 2.0® is also suitable for saltwater pools/salt electrolysis pools!
	De PoolLab 2.0® is ook geschikt voor zoutwater zwembaden/ zoutelektrolyse zwembaden!
	PoolLab 2.0® er også egnet til saltvandsbassiner/saltelektrolysebassiner!
	PoolLab 2.0® er også egnet for saltvannsbassenger / saltelektrolysebassenger!
	PoolLab 2.0® är också lämplig för saltvattenpooler/saltelektrolyspooler!

SINGLE PARAMETER

Single parameter quick start guide
Snelstartgids voor één parameter
Hurtigstartguide til enkeltparameter
Hurtigstartveiledning for én parameter
Snabbstartguide för enskilda parametrar


3
No Reagents!
10 ml
ZERO
20 cm
waterproof (IP68)

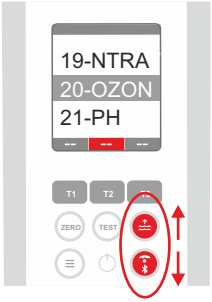

4
ZERO


5
1 2 3
ZERO

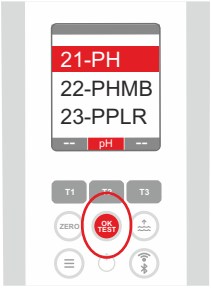

6
1 2 3
TEST

7

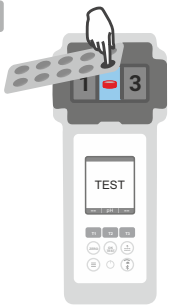
8



9

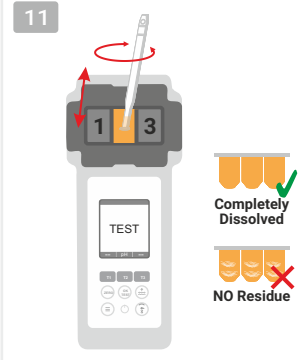


10



Reagents for your test (refer to chapter in manual)

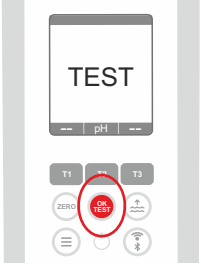
11


1
3
TEST
Completely Dissolved
NO Residue

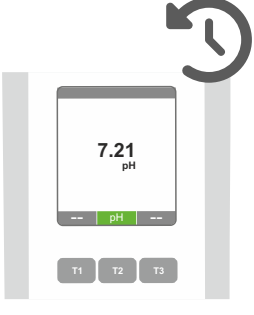
12


1
3
TEST

13


TEST
pH
T1
T2
T3
ZERO
OK TEST

14


7.21
pH
pH
T1
T2
T3

1)The countdown can be skipped by pressing the "on/off" button (not recommended)
2) Pressing the "TEST-OK" button again triggers a repeat measurement.

1) Het aftellen kan worden overgeslagen door op de "on/off" knop te drukken (niet aanbevolen).
2) Als u nogmaals op de "TEST-OK" knop drukt, wordt de meting herhaald.

1) Nedtællingen kan springes over ved at trykke på "on/off"-knappen (anbefales ikke)
2) Ved at trykke på "TEST-OK"-knappen igen udløses en gentagelse af målingen.

1) Nedtellingen kan hoppes over ved å trykke på "av/på"-knappen (anbefales ikke).
2) Ved å trykke på "TEST-OK"-knappen igjen utløses en ny måling.

1) Nedräkningen kan hoppa över genom att trycka på "on/off"-knappen (rekommenderas inte).
2) Genom att trycka på knappen "TEST-OK" igen utlöses en upprepad mätning.

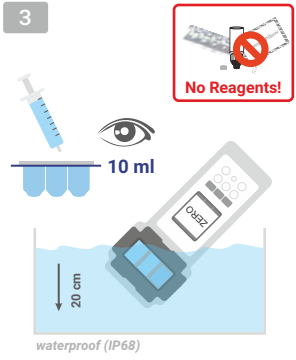
MULTIPLE PARAMETER

Multiple parameter quick start guide
Snelstartgids met meerdere parameters
Hurtigstartguide med flere parametre
Hurtigstartveiledning for flere parametere
Snabbstartguide för flera parametrar

1

2

3


No Reagents!
10 ml
ZERO
20 cm
waterproof (IP68)

4


ZERO

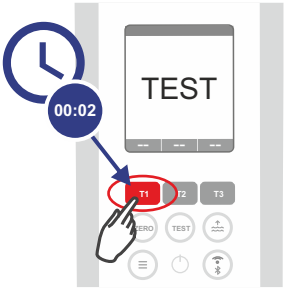
5


1 2 3
ZERO

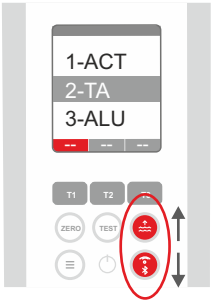
6


1 2 3
TEST

7


00:02
TEST
T1
T2
T3
ZERO
TEST

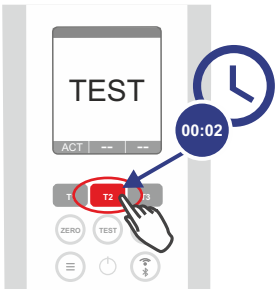
8


1-ACT
2-TA
3-ALU
T1
T2
ZERO
TEST

9


1-ACT
2-TA
3-ALU
T1
T2
T3
ZERO
OK
TEST

10


TEST
ACT
00:02
T2
ZERO
TEST

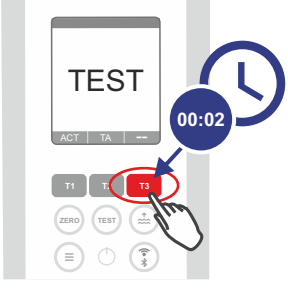
11


1-ACT
2-TA
3-ALU
ACT
--
--
T1
T2
ZERO
TEST

12


1-ACT
2-TA
3-ALU
ACT
--
--
T1
T3
ZERO
OK
TEST

13

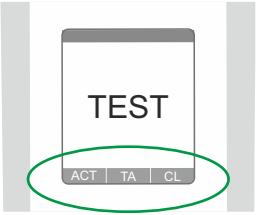

TEST
ACT
TA
--
00:02
T1
T3
ZERO
TEST

14

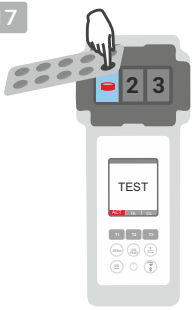

1-ACT
2-TA
3-ALU
ACT
TA
--
T1
T2
ZERO
TEST

15

16

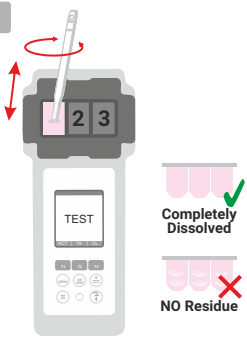


17



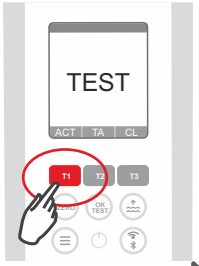
Reagents for your test
(Refer to chapter in manual)

18



19

20



Starts Countdown

21

Reagents for your test
(Refer to chapter in manual)

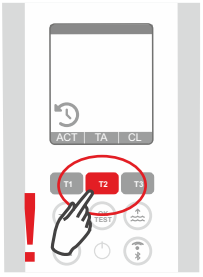
22

Completely Dissolved

NO Residue

23

24



Starts Countdown !

25

Reagents for your test
(Refer to chapter in manual)

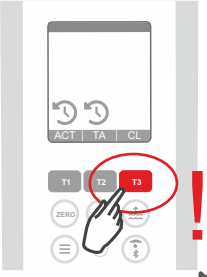
26

Completely Dissolved

NO Residue

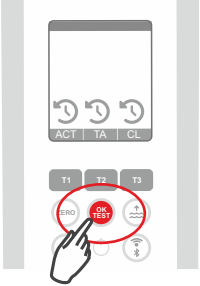
27

28



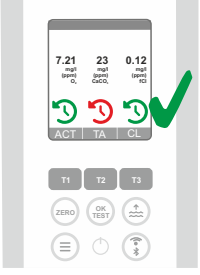
Starts Countdown !

29



Starts Testing !

30



As long you press the TEST button before the end of the recommended countdown, the countdown/clock will be displayed in green.

If you need a little longer than the recommended time, the colour of the countdown changes to red. In this case, higher tolerances have to be expected in the measurement result.

Zolang u op de TEST-knop drukt vóór het einde van het aanbevolen aftellen, wordt het aftellen/de klok groen weergegeven.

Als u iets langer nodig heeft dan de aanbevolen tijd, verandert de kleur van het aftellen in rood. In dat geval moet u rekening houden met grotere toleranties in het meetresultaat.

Så længe du trykker på TEST-knappen før afslutningen af den anbefalede nedtælling, vises nedtællingen/uret med grønt.

Hvis du har brug for lidt længere tid end den anbefalede tid, skifter farven på nedtællingen til rød. I dette tilfælde må man forvente større tolerancer i måleresultatet.

Så lenge du trykker på TEST-knappen før slutten av den anbefalte nedtellingen, vises nedtellingen/klokken i grønt.

Hvis du trenger litt lenger tid enn den anbefalte tiden, endres fargen på nedtellingen til rød. I dette tilfellet må det forventes høyere toleranser i måleresultatet.

Så länge du trycker på TEST-knappen innan den rekommenderade nedräkningen är slut, visas nedräkningen/klockan i grönt.

Om du behöver lite längre tid än den rekommenderade tiden ändras nedräkningens färg till rött. I detta fall måste man räkna med större toleranser i mätresultatet.

1) The countdown(s) can be skipped by pressing the "on/off" key after confirming the last measurement chamber (not recommended). **2)** The "back" (ZERO) key can be used to cancel an accidental confirmation that the reagent has been added ("T" key). **3)** Pressing the "TEST-OK" key again triggers a repeat measurement.

1) Het aftellen kan worden overgeslagen door op de "aan/uit"-toets te drukken nadat de laatste meetkamer is bevestigd (niet aanbevolen). **2)** De "back" (NUL) toets kan worden gebruikt om een toevallige bevestiging dat het reagens is toegevoegd te annuleren ("T" toets). **3)** Door nogmaals op de "TEST-OK" toets te drukken wordt een herhalingsmeting gestart.

1) Nedtællingen(erne) kan springes over ved at trykke på "on/off"-tasten efter bekræftelse af det sidste målekammer (anbefales ikke). **2)** "Tilbage"-tasten (NUL) kan bruges til at annullere en utilsigtet bekræftelse af, at reagenset er blevet tilsat ("T"-tasten). **3)** Ved at trykke på "TEST-OK"-tasten igen udløses en gentagelse af målingen.

1) Nedtellingen(e) kan hoppes over ved å trykke på "on/off"-tasten etter å ha bekreftet det siste målekammeret (anbefales ikke). **2)** "Tilbake"-tasten (ZERO) kan brukes til å avbryte en utilsiktet bekreftelse på at reagenset er tilsatt ("T"-tasten). **3)** Et nytt trykk på "TEST-OK"-tasten utløser en ny måling.pression sur la touche "TEST-OK" déclenche une répétition de la mesure.

1) Nedräkningen kan hoppa över genom att trycka på "on/off"-knappen efter att ha bekräftat den senaste mätkammaren (rekommenderas inte).
2) Tangenten "tillbaka" (ZERO) kan användas för att avbryta en oavsiktlig bekräftelse av att reagenset har tillsatts ("T"-tangenten). **3)** Genom att trycka på "TEST-OK"-tangenten igen utlöses en upprepad mätning.

ZERO

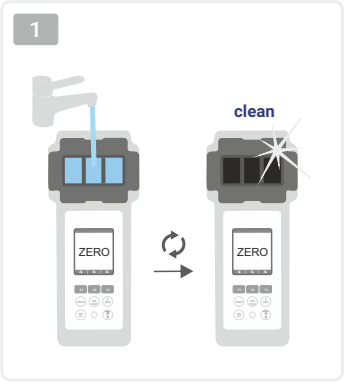
The ZERO step must only be carried out once after switching on and not necessarily before each following measurement.

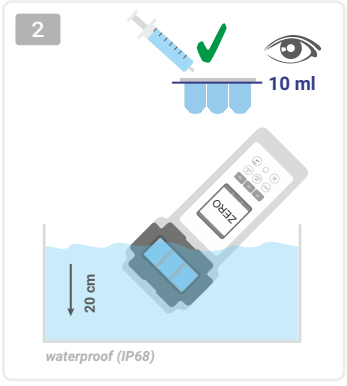
De ZERO-stap moet slechts eenmaal na het inschakelen worden uitgevoerd en niet noodzakelijkerwijs voor elke volgende meting. voor elke volgende meting.

ZERO-trinnet skal kun udføres én gang efter tændingen og ikke nødvendigvis før hver enkelt efterfølgende måling.

ZERO-stillingstrinnet må bare utføres én gang etter at apparatet er slått på, og ikke nødvendigvis før hver påfølgende måling.

ZERO-steget måste endast utföras en gång efter att du har slagit på och inte nödvändigtvis före varje efterföljande mätning.



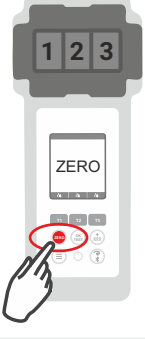


3

No Reagents!
Keine Reagenzien!
¡No hay reactivos!
Pas de réactifs!
Nessun reagente!

4

5



6

Only one time per test batch

The "ZERO" step is only necessary once after switching on. Make sure that the water to be measured does not (!) contain any tablet/reagent in the cuvette and that the light protection cover is in place. Please always perform ZERO with the pool water to be measured. You can also perform another ZERO before each new measurement (display shows "TEST") (fill cuvettes with pool water, put on lid, press ZERO key).

Slechts één keer per testpartij

De stap "ZERO" is slechts eenmaal nodig na het inschakelen. Zorg ervoor dat het te meten water geen (!) tablet/reagens in de cuvet bevat en dat het lichtbeschermingsdeksel op zijn plaats zit. Voer altijd ZERO uit met het te meten zwembadwater. U kunt ook vóór elke nieuwe meting opnieuw een ZERO uitvoeren (display toont "TEST") (cuvetten vullen met zwembadwater, deksel erop doen, op de ZERO-toets drukken).

Kun én gang pr. testparti

"ZERO"-trinnet er kun nødvendigt én gang efter tændingen. Sørg for, at det vand, der skal måles, ikke (!) indeholder tabletter/reagens i kuvetten, og at lysbeskyttelsesdækslet er på plads. Udfør venligst altid ZERO med det bassinvand, der skal måles. Du kan også udføre en ny ZERO før hver ny måling (displayet viser "TEST") (fyld kuvetterne med poolvand, sæt låget på, tryk på ZERO-tasten).

Bare én gang per testparti

„ZERO"-trinnet er bare nødvendig én gang etter at apparatet er slått på. Forsikre deg om at vannet som skal måles ikke (!) inneholder noen tablett/reagens i kyvetten, og at lysbeskyttelsesdekselet er på plass. Utfør alltid ZERO med bassengvannet som skal måles. Du kan også utføre en ny ZERO før hver ny måling (displayet viser "TEST") (fyll kyvettene med bassengvann, sett på lokket, trykk på ZERO-tasten).

Endast en gång per provningssats

Steg "ZERO" är bara nödvändigt en gång efter att du har slagit på. Kontrollera att vattnet som ska mätas inte (!) innehåller någon tablett/reagens i kyvetten och att ljusskyddslocket är på plats. Utför alltid ZERO med bassängvattnet som ska mätas. Du kan också utföra en ny ZERO före varje ny mätning (displayen visar "TEST") (fyll kuvetter med bassängvatten, sätt på locket, tryck på ZERO-tangenten).

OR

20.0

10.0

0.0

Active Oxygen (MPS)
Actieve zuurstof (MPS)
Aktiv ilt (MPS)
Aktivt oksygen (MPS)
OssiAktiv syre (MPS)

1–ACT

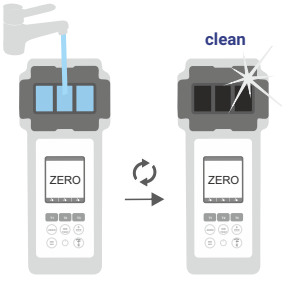
0.00 – 20.00 ppm (mg/l) O_2

DPD N°4 Photometer*

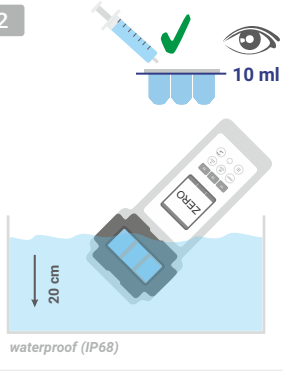
*not part of standard equipment

1

1...4 → Page 46



2

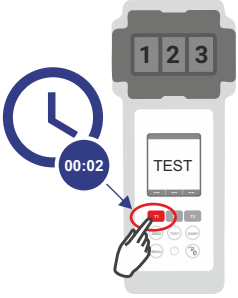


waterproof (IP68)

3

4

5



6

7

8

1 x DPD N°4 Photometer

9

Completely Dissolved

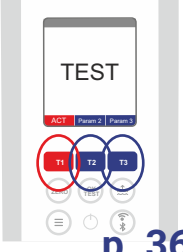
NO Residue

10

11

If single parameter:

If multiple parameters:
See page 36



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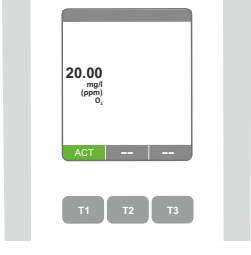
12

13



ppm = mg/l

OR ⬆
200
75
0

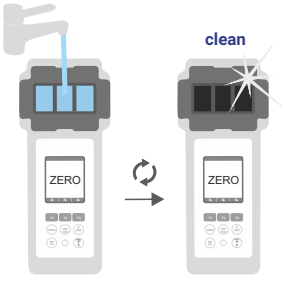
Alkalinity
Alkaliteit
Alkalinitet
Alkalinitet
Alkalinitet

2–TA

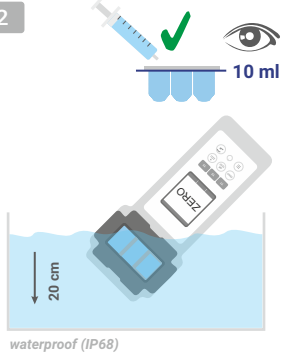
0 – 200 ppm (mg/l) $CaCO_3$

Alkalinity–M Photometer

1 1...4 ⟶ Page 46



2

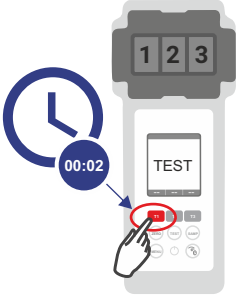


waterproof (IP68)

3

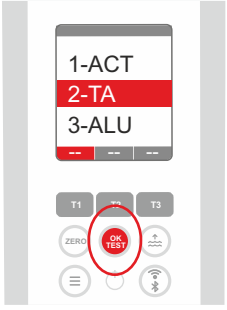
4

5



6

7



8

1 x Alkalinity-M
Photometer

9

Completely
Dissolved

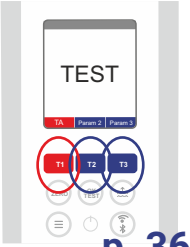
NO Residue

10

11

If single parameter:

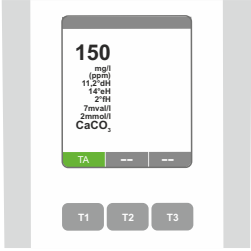
If multiple parameters:
See page 36



... p. 36

12

13



ppm = mg/l

OR

0.30

0.15

0.00

Aluminium

1 2 3

ONLY SINGLE

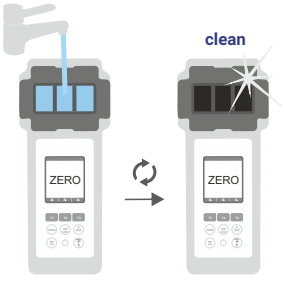
3–ALU

0.00 – 0.30 ppm (mg/l) Al^{3+}

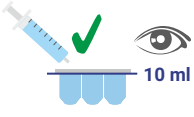
Aluminium N°1 Photometer*
Aluminium N°2 Photometer*

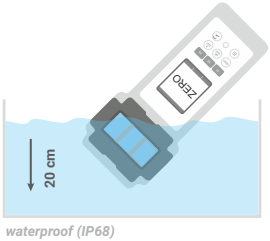
*not part of standard equipment

1 1...4 → Page 46



2



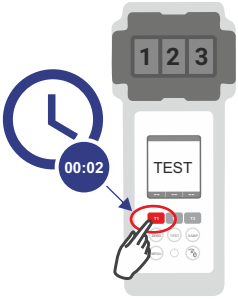


waterproof (IP68)

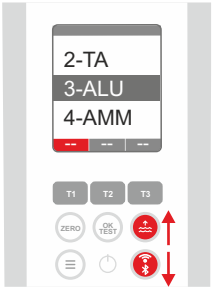
3

4

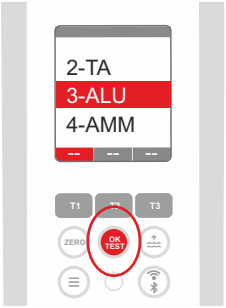
5



6

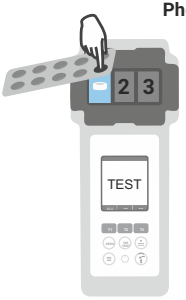


7



8

1 x Aluminium N°1
Photometer



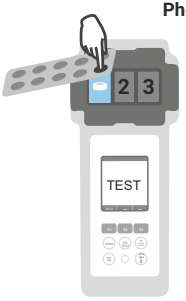
9

Completely
Dissolved

NO Residue

10

1 x Aluminium N°2
Photometer



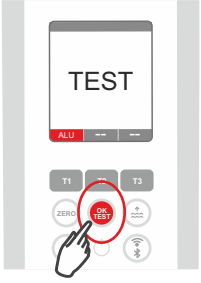
11

Completely Dissolved

NO Residue

12

13



14

ppm = mg/l

OR

1.20

0.60

0.00

Ammonia
Ammoniak
Ammoniakk
Ammoniak

1 2 3

ONLY SINGLE

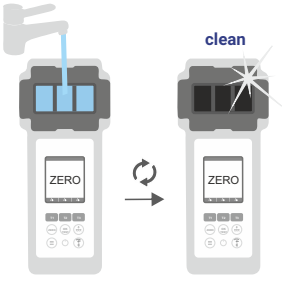
4–AMM

0.00 – 1.20 ppm (mg/l) NH_3

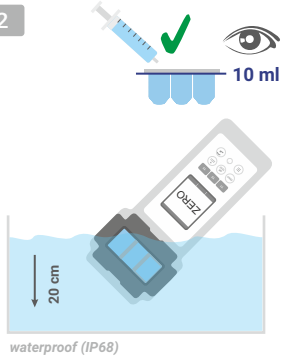
Ammonia N°1 Powder Pillow*
Ammonia N°2 Powder Pillow*

*not part of standard equipment

1 1...4 → Page 46



2



waterproof (IP68)

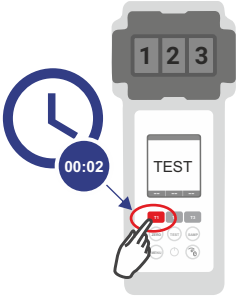
3


ZERO

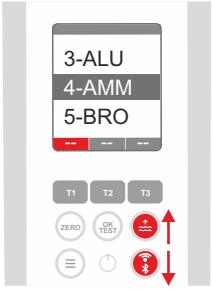
4


1 2 3
ZERO

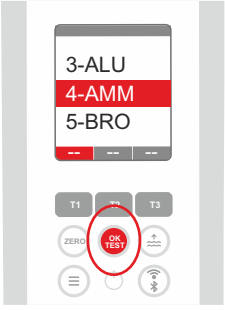
5


1 2 3
00:02
TEST

6


3-ALU
4-AMM
5-BRO
T1
T2
T3
ZERO
OK
TEST

7



8

1 x Ammonia N°1
Photometer

9

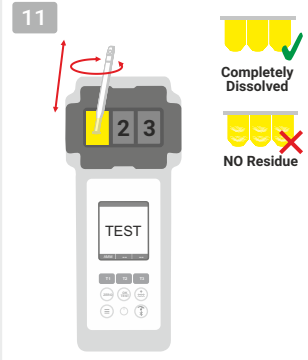
Completely
Dissolved

NO Residue

10

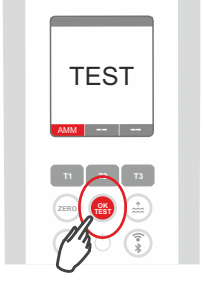
1 x Ammonia N°2
Photometer

11

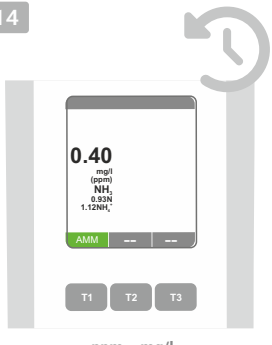


12

13



14



ppm = mg/l

OR

13.00

6.50

0.00

Bromine
Broom
Bromin
Brom

5–BRO

OR

9.00

4.50

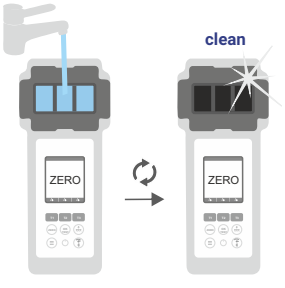
0.00

Tablet Mode:
0.00 – 13.00 ppm (mg/l) Br_2
DPD N°1 Photometer Tablet
Glycine*

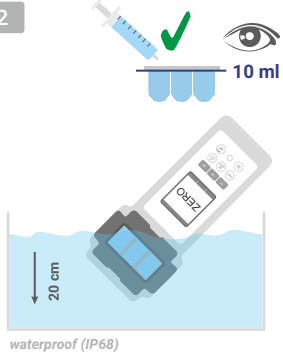
Liquid Mode:
0.00 – 9.00 ppm (mg/l) Br_2
DPD 1A + DPD 1B Liquid*
Glycine*

1

1...4 → Page 46



2

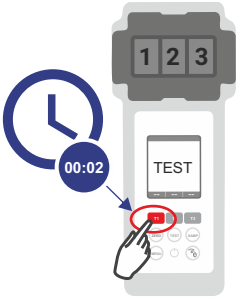


waterproof (IP68)

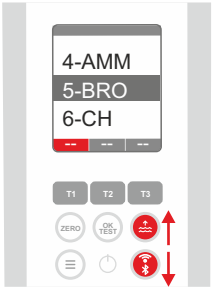
3

4

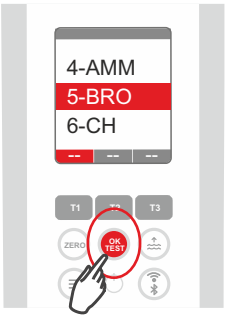
5



6



7



	Only if your water sample does contain Chlorine next to Bromine (both disinfectants used), the following procedure "A" needs to be followed and Glycine* reagent needs to be used. Otherwise (only Bromine present), please follow procedure "B".
	Alleen als uw watermonster naast broom ook chloor bevat (beide gebruikte ontsmettingsmiddelen), moet de volgende procedure "A" worden gevolgd en moet Glycine*-reagens worden gebruikt. Anders (alleen Broom aanwezig), volgt u procedure "B".
	Kun hvis din vandprøve indeholder klor ved siden af brom (begge desinfektionsmidler anvendes), skal følgende procedure "A" følges, og der skal anvendes Glycine*-reagens. I modsat fald (kun bromin) skal du følge procedure "B".
	Bare hvis vannprøven inneholder klor ved siden av brom (begge desinfeksjonsmidler brukt), må følgende prosedyre "A" følges og Glycine*-reagens brukes. Ellers (bare brom til stede), vennligst følg prosedyre "B".
	Endast om vattenprovet innehåller klor och brom (båda desinfektionsmedlen används) måste följande förfarande "A" följas och Glycine*-reagens användas. I annat fall (endast bromin), följ förfarande "B".

A With Chlorine | met Chloor | med Klor

8A

1 x Glycine

9A

USE FORCE!

Completely Dissolved

NO Residue

10A

Tablet or Liquid? (p.16)

1 x DPD N°1 Photometer

3 x DPD 1A + 3 x DPD 1B

11A

USE FORCE!

Completely Dissolved

NO Residue

B without Chlorine | zonder Chloor | uden Klor | uten Klor | utan Klor

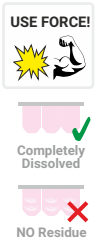
8B

Tablet or Liquid? (p.16)

1 x DPD N°1 Photometer

3 x DPD 1A + 3 x DPD 1B

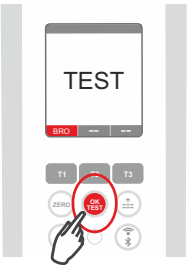
9B



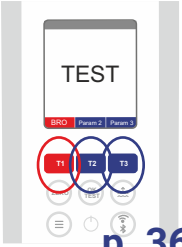
12A 10B

13A 11B

If single parameter:



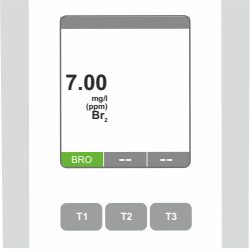
If multiple parameters:
See page 36



... p. 36

14A 12B

15A 13B



ppm = mg/l

OR

500

250

0

Calcium Hardness
Calciumhardheid
Calciumhårdhed
Kalsium hardhet
Kalciumhårdhet

1 2 3

ONLY SINGLE
ONLY CHAMBER 2

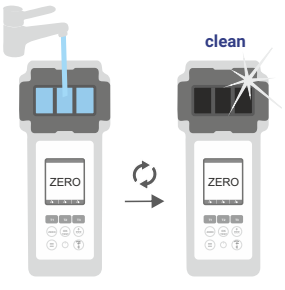
6–CH

0 – 500 ppm (mg/l) $CaCO_3$

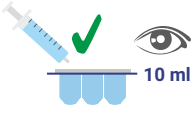
- Calcium Hardness N°1*
- Calcium Hardness N°2*

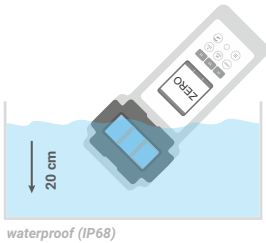
*not part of standard equipment

1 1...4 → Page 46



2





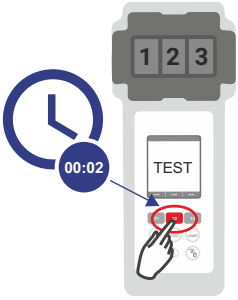
waterproof (IP68)

3

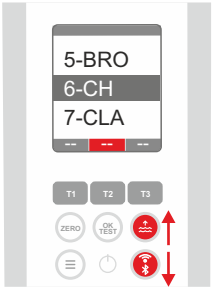
4

5

CHAMBER 2!

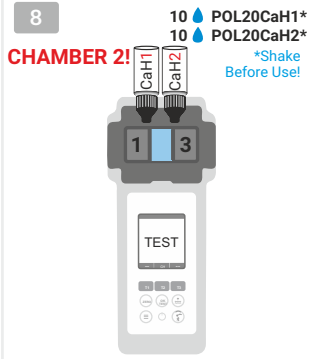


6



7

8



9

10

10:00 min

11

12

13

14

ppm = mg/l

OR

6.00

3.00

0.00

Chloramines
Kloraminer

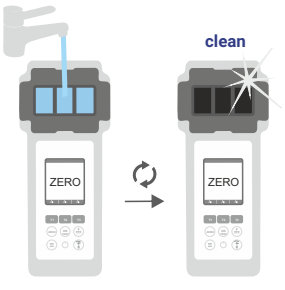
7–CLA

0.00 – 6.00 ppm (mg/l) $NH_2Cl/NHCl_2$

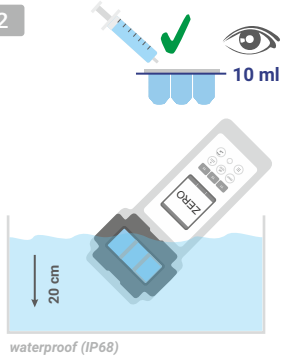
DPD N°1 Photometer
DPD N°2 Photometer*
DPD N°3 Photometer

*not part of standard equipment

1 1...4 → Page 46



2

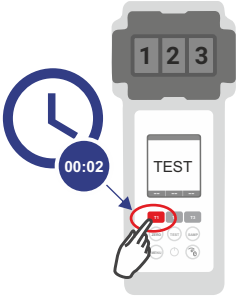


waterproof (IP68)

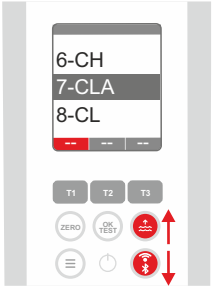
3

4

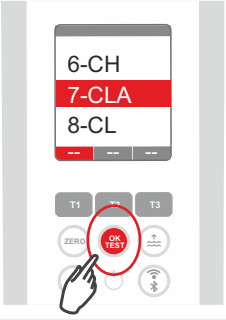
5



6

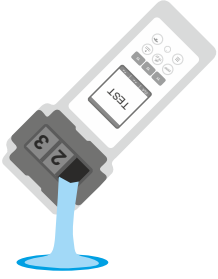


7



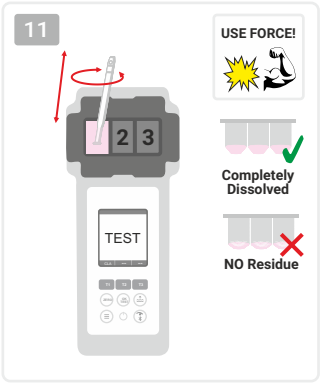
8

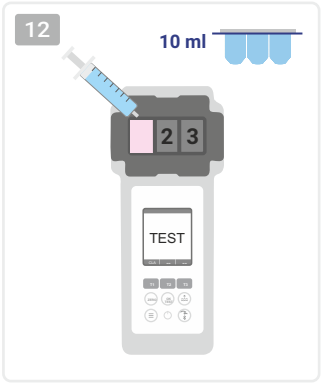
9



10

1 x DPD N°1 Photometer

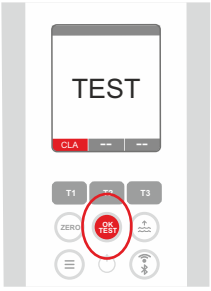

11
USE FORCE!
Completely Dissolved
NO Residue
2 3
TEST


12
10 ml
2 3
TEST

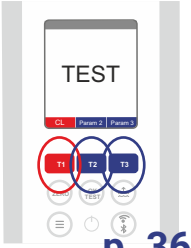

13
2 3
TEST


14
2 3
TEST

15



If multiple parameters:
See page 36



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16

17

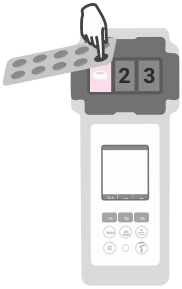
Mono-Chloramine

ppm = mg/l Free Chlorine

18

19

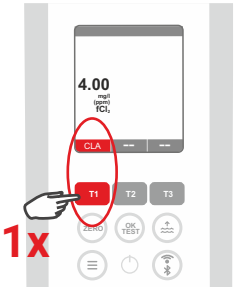
1 x DPD N°2 Photometer



20

21

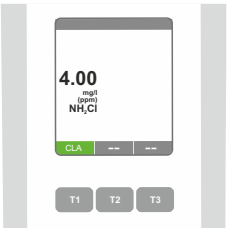
22



23

24

Di-Chloramine

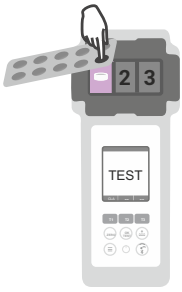


ppm = mg/l Mono-Chloramine

25

26

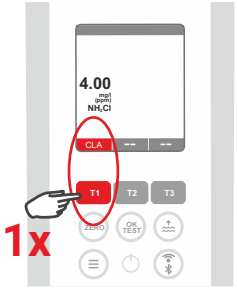
1 x DPD N°3 Photometer



27

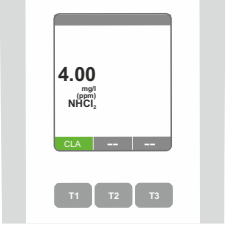
28

29



30

31



ppm = mg/l Di-Chloramine

OR

6.00

3.00

0.00

Chlorine (fCl/cCl/tCl)
Chloor (fCl/cCl/tCl)
Klor (fCl/cCl/tCl)

8–CL

OR

4.00

2.00

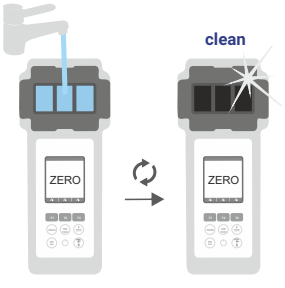
0.00

Tablet Mode:
0.00 – 6.00 ppm (mg/l) Cl_2
DPD N°1 Photometer
DPD N°3 Photometer

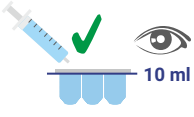
Liquid Mode:
0.00 – 4.00 ppm (mg/l) fCl_2
DPD 1A* + DPD 1B* +
DPD 3C* Liquid

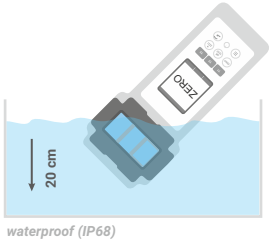
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

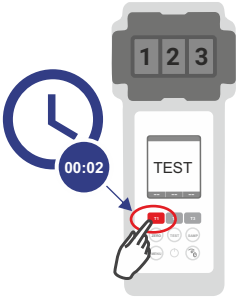
3


ZERO

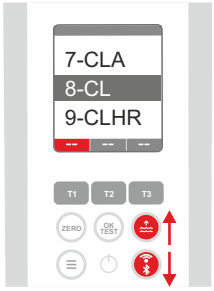
4


1 2 3
ZERO

5


1 2 3
00:02
TEST

6


7-CLA
8-CL
9-CLHR
T1
T2
T3
ZERO
OK
TEST

7

8

Tablet or Liquid? (p.16)

1 x DPD N°1 Photometer

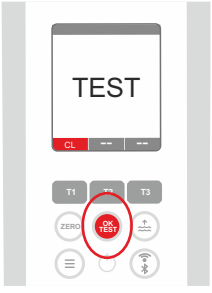
3 x DPD 1A + 3 x DPD 1B

9

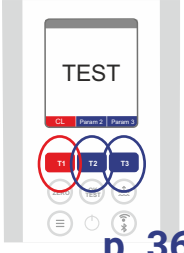
10

11

If single parameter:



If multiple parameters:
See page 36

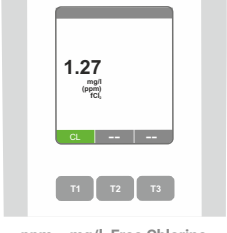


... p. 36

12

13

Total Chlorine



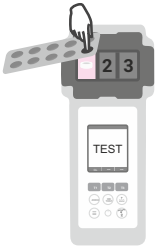
ppm = mg/l Free Chlorine

14

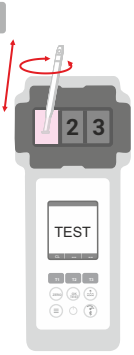
Tablet or Liquid? (p.16)

1 x DPD N°3 Photometer

3 x DPD 3C



15



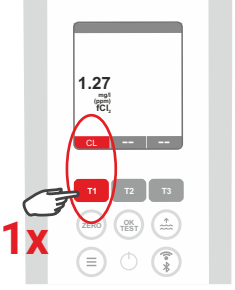
USE FORCE!

Completely Dissolved

NO Residue

16

17

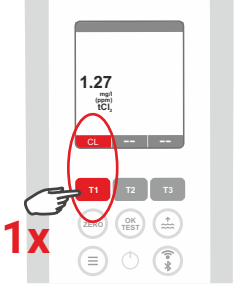


18

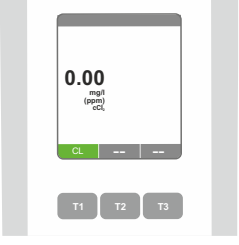
19

ppm = mg/l Total Chlorine

20



21



ppm = mg/l Combined Chlorine

OR ⬆
200
100
5

Chlorine HR (KI)
Chloor HR (KI)
Klor HR (KI)

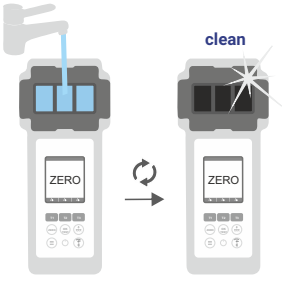
9–CLHR

5 – 200 ppm (mg/l) Cl_2

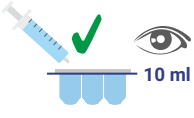
Chlorine HR (KI)*
Acidifying GP Powder Pillow*

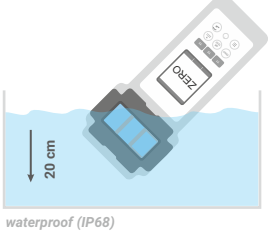
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

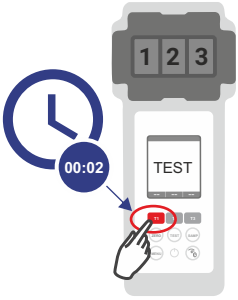
3


ZERO

4


1 2 3
ZERO

5


1 2 3
00:02
TEST

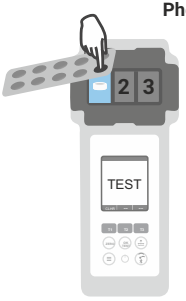
6


8-CL
9-CLHR
10-CLO2
T1
T2
T3
ZERO
OK
TEST

7

8

1 x Chlorine HR (KI) Photometer



9

USE FORCE!

Completely Dissolved

NO Residue

10

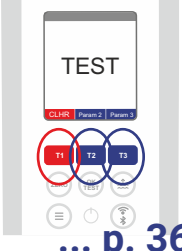
1 x Acidifying GP

11

12

If single parameter:

If multiple parameters:
See page 36



... p. 36

13

ppm = mg/l

OR
11.00
5.50
0.00

Chlorine Dioxide
Chloordioxide
Klordioxid
Klordioksid
Klordioxid

10–CLO2

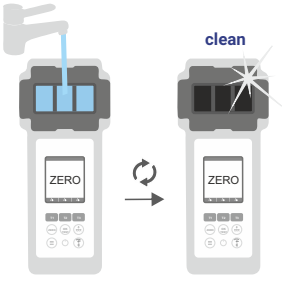
OR
7.50
3.00
0.00

Tablet Mode:
0.00 – 11.00 ppm (mg/l) ClO_2
DPD N°1 Photometer
Glycine*

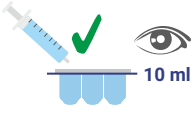
Liquid Mode:
0.00 – 7.50 ppm (mg/l) ClO_2
DPD 1A* + DPD 1B* Liquid
Glycine*

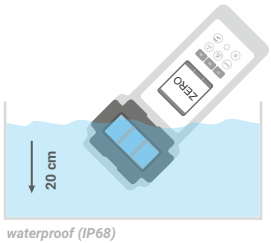
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

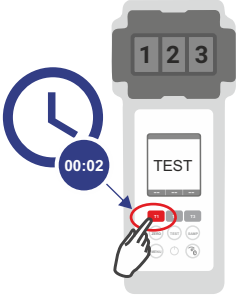
3


ZERO

4


1 2 3
ZERO

5


1 2 3
00:02
TEST

6


9-CLHR
10-CLO2
11-CU
T1
T2
T3
ZERO
OK
TEST

	Only if your water sample does contain Chlorine next to Chlorine Dioxide (both disinfectants used), the following procedure "A" needs to be followed and Glycine* reagent needs to be used. Otherwise (only Chlorine Dioxide present), please follow procedure "B".
	Alleen als uw watermonster naast Chloordioxide ook Chloor bevat (beide gebruikte ontsmettingsmiddelen), moet de volgende procedure "A" worden gevolgd en moet Glycine*-reagens worden gebruikt. Anders (alleen Chloordioxide aanwezig), volgt u procedure "B".
	Kun hvis din vandprøve indeholder klor ved siden af klordioxid (begge desinfektionsmidler anvendes), skal følgende procedure "A" følges, og der skal anvendes Glycine*-reagens. I modsat fald (kun klordioxid) skal du følge procedure "B".
	Bare hvis vannprøven inneholder klor ved siden av klordioksid (begge desinfeksjonsmidler brukes), må følgende prosedyre "A" følges og Glycine*-reagens brukes. Ellers (bare klordioksid til stede), vennligst følg prosedyre "B".
	Endast om vattenprovet innehåller klor vid sidan av klordioxid (båda desinfektionsmedlen används) måste följande förfarande "A" följas och Glycine*-reagens användas. I annat fall (endast förekomst av klordioxid), följ förfarande "B".

A With Chlorine | met Chloor | med Klor

8A

1 x Glycine

9A

USE FORCE!

Completely Dissolved

NO Residue

10A

Tablet or Liquid? (p.16)

1 x DPD N°1 Photometer

3 x DPD 1A + 3 x DPD 1B

11A

USE FORCE!

Completely Dissolved

NO Residue

B without Chlorine | zonder Chloor | uden Klor | uten Klor | utan Klor

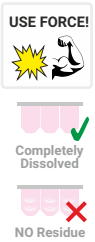
8B

Tablet or Liquid? (p.16)

1 x DPD N°1 Photometer

3 x DPD 1A + 3 x DPD 1B

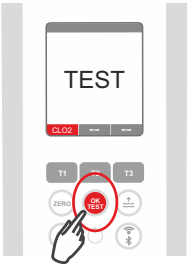
9B



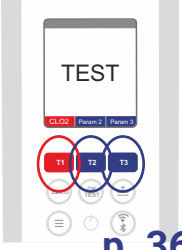
12A 10B

13A 11B

If single parameter:



If multiple parameters:
See page 36



... p. 36

14A 12B

15A 13B

ppm = mg/l

OR

5.00

2.50

0.00

Copper
Koper
Kobber
Koppar

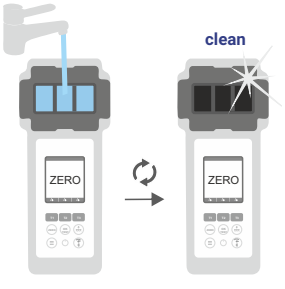
11–CU

0.00 – 5.00 ppm (mg/l) Cu^{2+}

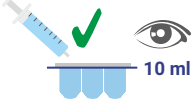
Copper N°1 Photometer*
Copper N°2 Photometer*

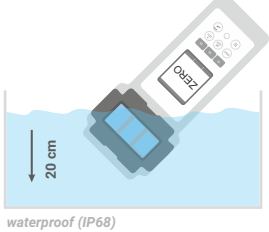
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

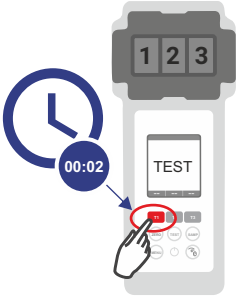
3


ZERO

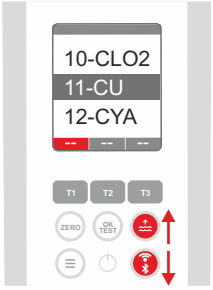
4


1 2 3
ZERO

5


1 2 3
00:02
TEST

6


10-CLO2
11-CU
12-CYA
T1
T2
T3
ZERO
OK
TEST

7

8

1 x Copper N°1 Photometer

9

Completely Dissolved

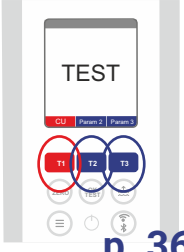
NO Residue

10

11

If single parameter:

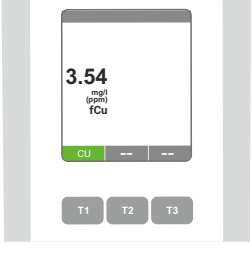
If multiple parameters:
See page 36



... p. 36

12

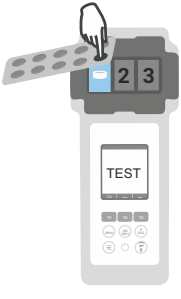
Total Copper



ppm = mg/l Free Copper

13

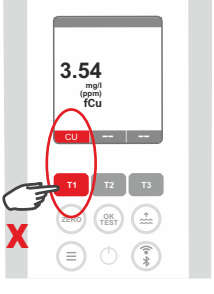
1 x Copper N°2 Photometer



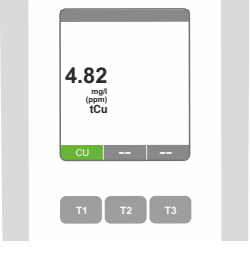
14

15

16

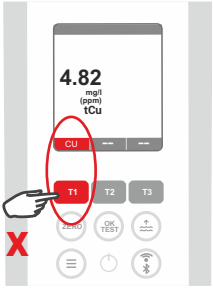


17



ppm = mg/l Total Copper

18



19

ppm = mg/l Combined Copper

OR

100

50

0

Cyanuric acid
Cyanuurzuur
Cyanursyre
Cyanursyre
Cyanursyra

1 2 3

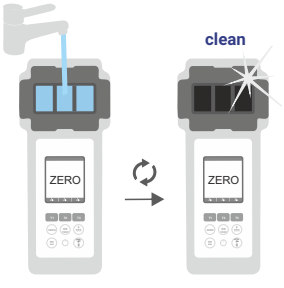
ONLY CHAMBER 2

12–CYA

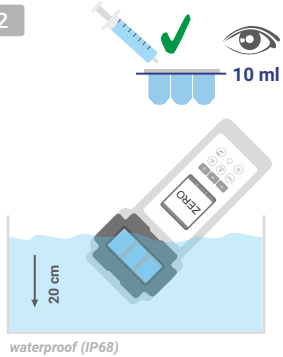
0 – 100 ppm (mg/l) CYA

CYA Test Photometer

1 1...4 → Page 46



2



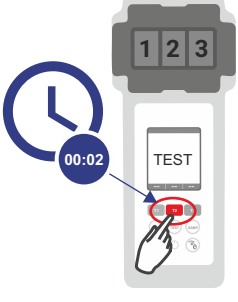
waterproof (IP68)

3

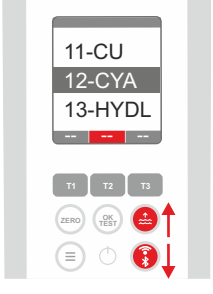
4

5

CHAMBER 2!



6

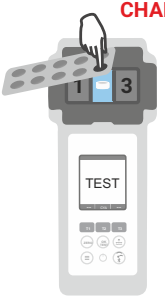


7

8

1 x CYA–Test Photometer

CHAMBER 2!

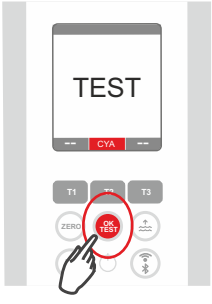


9

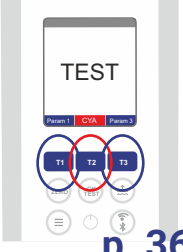
10

11

If single parameter:



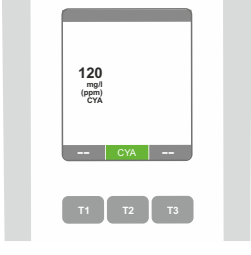
If multiple parameters:
See page 36



... p. 36

12

13



ppm = mg/l

OR

2.40

1.20

0.00

Hydrogen Peroxide (LR)
Waterstofperoxide (LR)
Hydrogenperoxid (LR)
Hydrogenperoksid (LR)
Väteperoxid (LR)

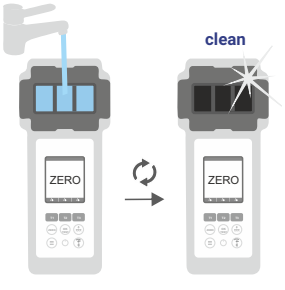
13–HYDL

0.00 – 2.40 ppm (mg/l) H_2O_2

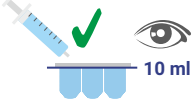
Hydr. Peroxide LR Photometer*

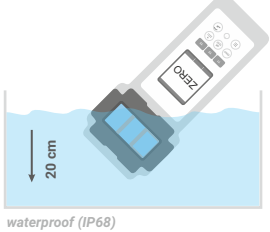
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

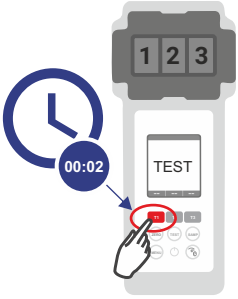
3


ZERO

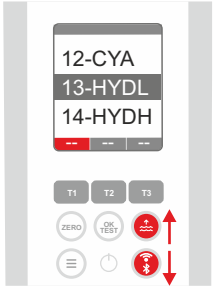
4


1 2 3
ZERO

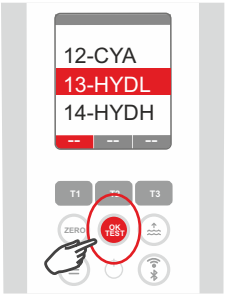
5


1 2 3
00:02
TEST

6


12-CYA
13-HYDL
14-HYDH
T1
T2
T3
ZERO
OK
TEST

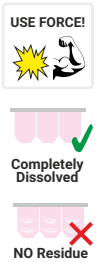
7



8

1 x Hydr. Peroxide
LR Photometer

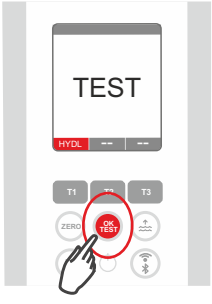
9



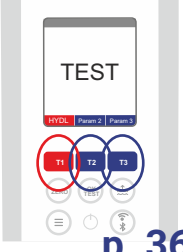
10

11

If single parameter:



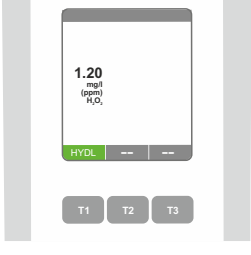
If multiple parameters:
See page 36



... p. 36

12

13



ppm = mg/l

OR ⬆

180

60

0

Hydrogen Peroxide (HR)
Waterstofperoxide (HR)
Hydrogenperoxid (HR)
Hydrogenperoksid (HR)
Väteperoxid (HR)

14–HYDH

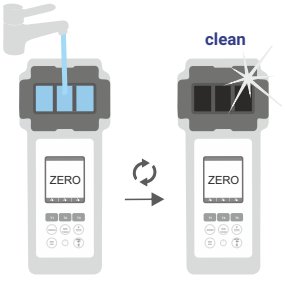
0 – 180 ppm (mg/l) H_2O_2

Hydr. Peroxide HR Photometer*

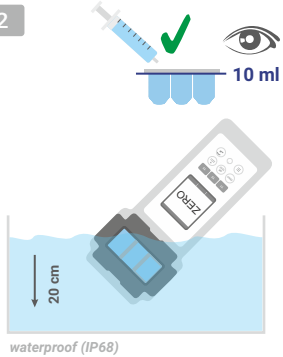
Acidifying PT*

*not part of standard equipment

1 1...4 ⟶ Page 46



2



waterproof (IP68)

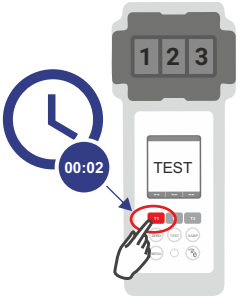
3


ZERO

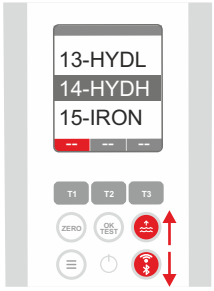
4


1 2 3
ZERO

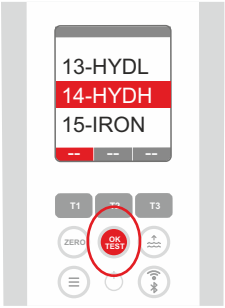
5


1 2 3
00:02
TEST

6


13-HYDL
14-HYDH
15-IRON
T1
T2
T3
ZERO
OK
TEST

7



8

1 x Acidifying PT

9

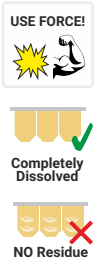
Completely Dissolved

NO Residue

10

1 x Hydr. Peroxide HR Photometer

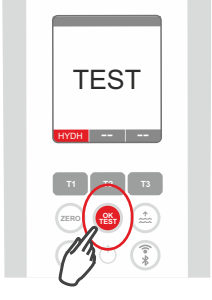
11



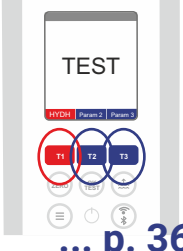
12

13

If single parameter:

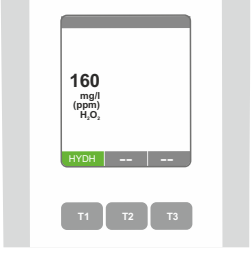


If multiple parameters:
See page 36



... p. 36

14



ppm = mg/l

OR

1.00

0.50

0.00

Iron (LR)
Jern (LR)
Järn (LR)

1 2 3

ONLY SINGLE

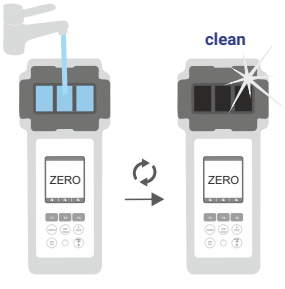
15–IRON

0.00 – 1.00 ppm (mg/l) Fe^{2+}/Fe^{3+}

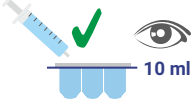
Iron LR Photometer*

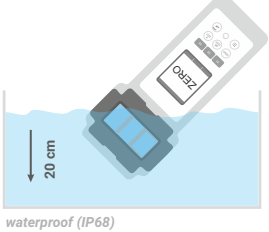
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

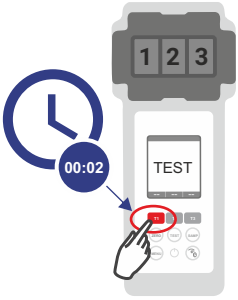
3


ZERO

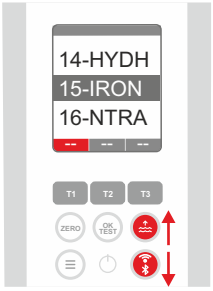
4


1 2 3
ZERO

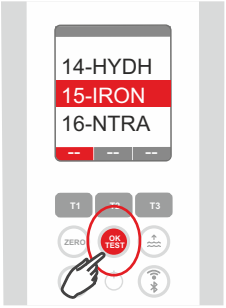
5


1 2 3
00:02
TEST

6


14-HYDH
15-IRON
16-NTRA
T1
T2
T3
ZERO
OK
TEST

7



8

1 x Iron LR Photometer

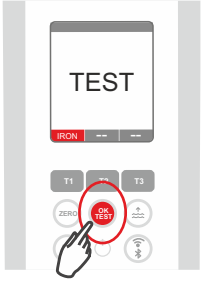
9

Completely Dissolved

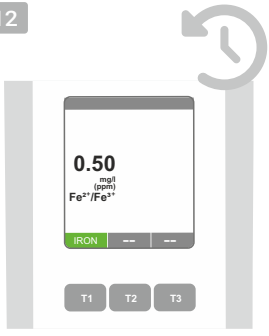
NO Residue

10

11



12



ppm = mg/l

OR ⬆

50

25

0

Nitrate
Nitraat
Nitrat

1 2 3

ONLY SINGLE

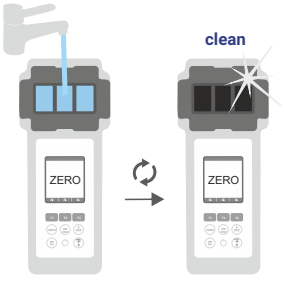
16–NTRA

1 – 50 ppm (mg/l) NO_3^-

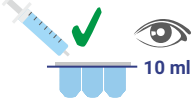
Nitrate N°1 Photometer Powder Pillow*
Nitrate N°2 Photometer Powder Pillow*

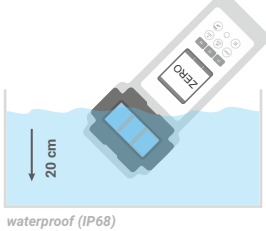
*not part of standard equipment

1 1...4 → Page 46



2



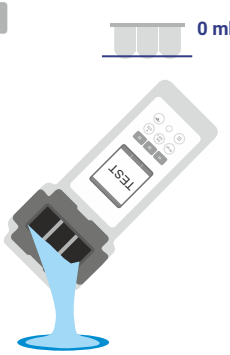


waterproof (IP68)

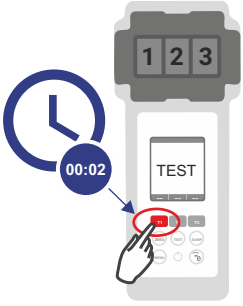
3

4

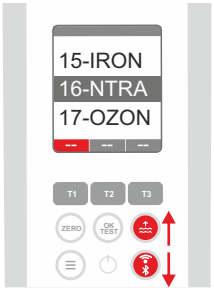
5



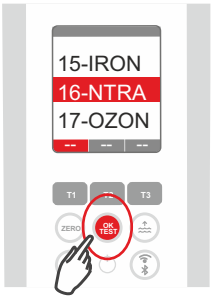
6



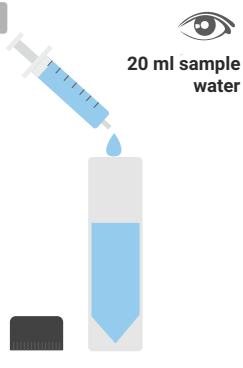
7


15-IRON
16-NTRA
17-OZON
T1
T2
T3
ZERO
OK
TEST

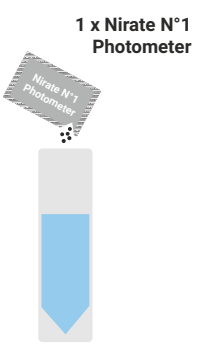
8


15-IRON
16-NTRA
17-OZON
T1
T3
ZERO
OK
TEST

9

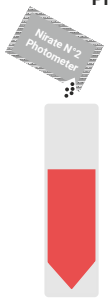

20 ml sample
water

10

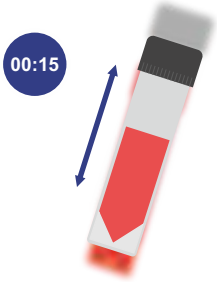

1 x Nirate N°1
Photometer
Nirate N°1
Photometer

11

1 x Nirate N°2 Photometer



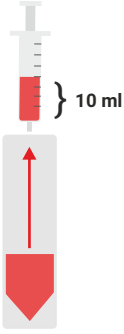
12



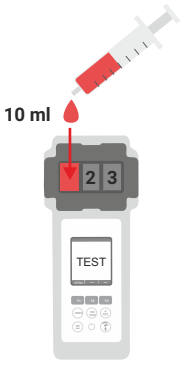
13

10:00 min

14

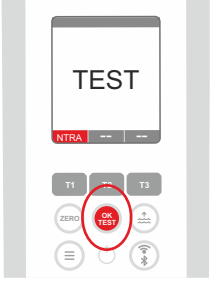


15

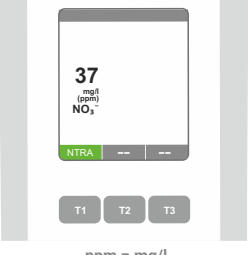


16

17



18



ppm = mg/l

OR

1.50

0.75

Nitrite
Nitriet
Nitrit
Nitritt
Nitrit

1 2 3

ONLY SINGLE

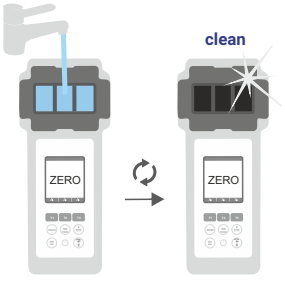
17–NITRI

0.00 – 1.50 ppm (mg/l) NO_2^-

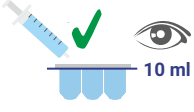
Nitrite LR Photometer Powder Pillows*

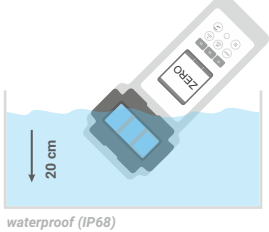
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

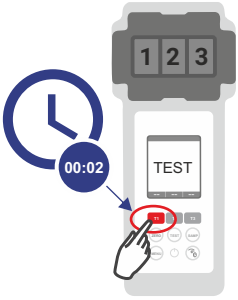
3


ZERO

4


1 2 3
ZERO

5


1 2 3
00:02
TEST

6


16-NTRA
17-NITRI
18-OZON
T1
T2
T3
ZERO
OK
TEST

7

8

1 x Nitrite LR Photometer

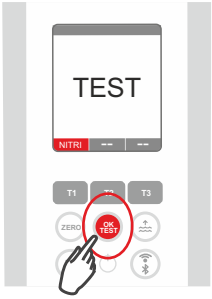
9

Completely Dissolved

NO Residue

10

11



12

13

ppm = mg/l

OR ⬆
4.00
2.00
0.00

Ozone
Ozon

18–OZON

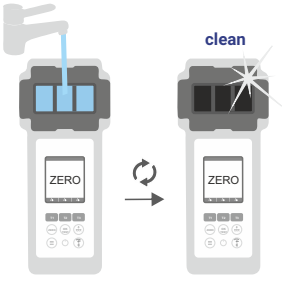
OR ⬆
2.70
1.30
0.00

Tablet Mode:
0.00 – 4.00 ppm (mg/l) O_3
DPD N°1 Photometer
DPD N°3 Photometer
Glycine*

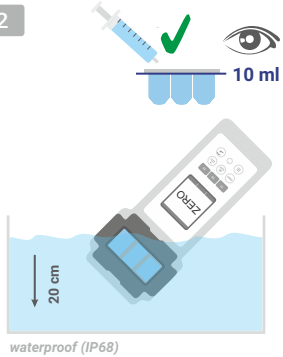
Liquid Mode:
0.00 – 2.70 ppm (mg/l) O_3
DPD 1A* + DPD 1B* +
DPD 3C* Liquid
Glycine*

*not part of standard equipment

1 1...4 → Page 46



2



waterproof (IP68)

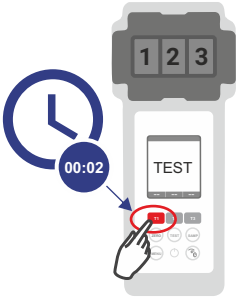
3


ZERO

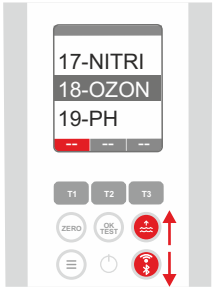
4

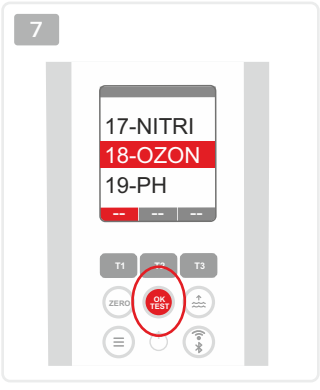

1 2 3
ZERO

5


1 2 3
00:02
TEST

6


17-NITRI
18-OZON
19-PH
T1
T2
T3
ZERO
OK
TEST



	If the water sample also contains chlorine, an incorrect measurement result (ozone+chlorine) is displayed.
	Indien het watermonster ook chloor bevat, wordt een onjuist meetresultaat (ozon+chloor) weergegeven.
	Hvis vandprøven også indeholder klor, vises et forkert måleresultat (ozon + klor).
	Hvis vannprøven også inneholder klor, vises et feil måleresultat (ozon + klor).
	Om vattenprovet också innehåller klor visas ett felaktigt mätresultat (ozon+klor).

8

Tablet or Liquid? (p.16)

1 x DPD N°1 Photometer +
1 x DPD N°3 Photometer

3 x DPD 1A + 3 x DPD 1B +
3 x DPD 3C Liquid

9

USE FORCE!

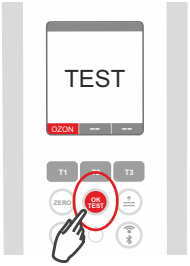
Completely Dissolved

NO Residue

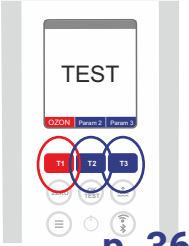
10

11

If single parameter:



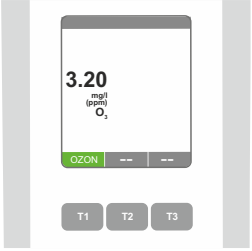
If multiple parameters:
See page 36



... p. 36

12

13



ppm = mg/l

OR
8.40
7.30
6.50

pH

19–PH

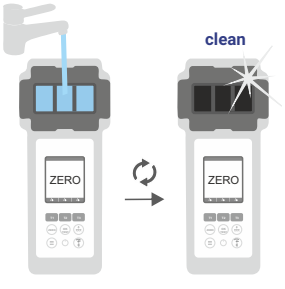
Tablet Mode:
6.50 – 8.40 pH
Phenol Red Photometer

Liquid Mode:
6.50 – 8.40 pH
Phenol Red Liquid*

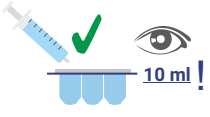
OR
8.40
7.30
6.50

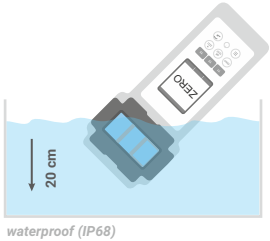
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

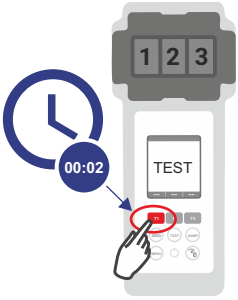
3


ZERO

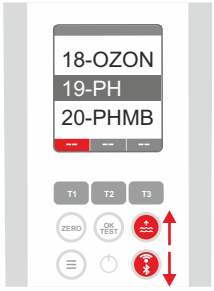
4


1 2 3
ZERO

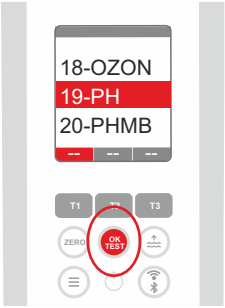
5


1 2 3
00:02
TEST

6


18-OZON
19-PH
20-PHMB
T1
T2
T3
ZERO
OK
TEST

7



8

Tablet or Liquid? (p.16)

1 x Phenol Red Photometer

6 x Phenol Red

9

USE FORCE!

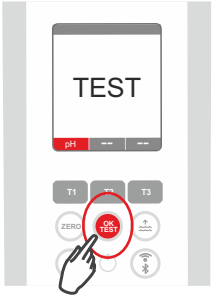
Completely Dissolved

NO Residue

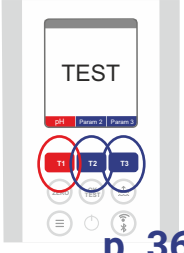
10

11

If single parameter:



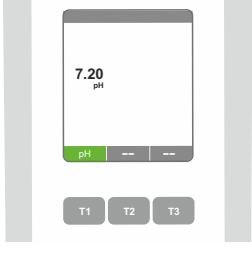
If multiple parameters:
See page 36



... p. 36

12

13



ppm = mg/l

	The alkalinity value must be at least 50 mg/l to perform a correct pH measurement.
	De alkaliteitswaarde moet minstens 50 mg/l bedragen om een correcte pH-meting uit te voeren.
	Alkalinitetsværdien skal være mindst 50 mg/l for at kunne foretage en korrekt pH-måling.
	Alkalinitetsverdien må være minst 50 mg/l for å utføre en korrekt pH-måling.
	Alkalinitetsvärdet måste vara minst 50 mg/l för att pH-mätningen ska bli korrekt.

OR
60
35
5
UR

PHMB

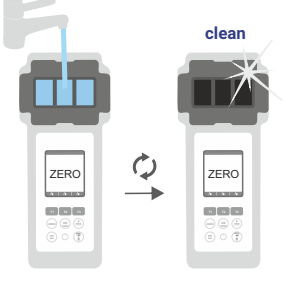
20–PHMB

5 – 60 ppm (mg/l) PHMB

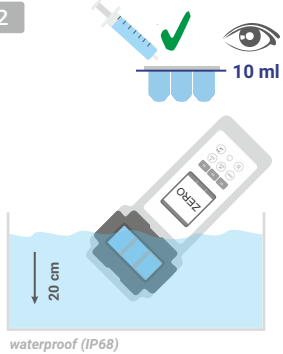
PHMB Photometer*

*not part of standard equipment

1 1...4 → Page 46



2



waterproof (IP68)

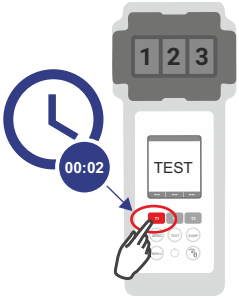
3


ZERO

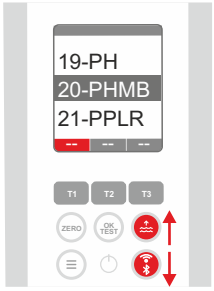
4


1 2 3
ZERO

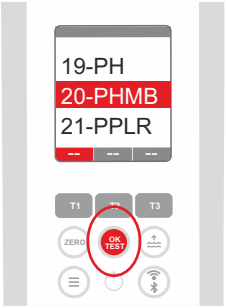
5


1 2 3
00:02
TEST

6


19-PH
20-PHMB
21-PPLR
T1
T2
T3
ZERO
OK
TEST

7



8

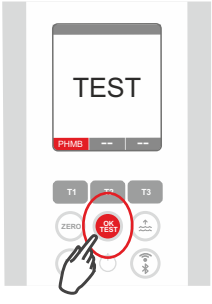
1 x PHMB Photometer

9

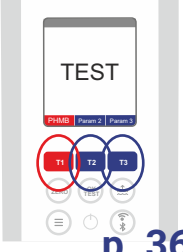
10

11

If single parameter:



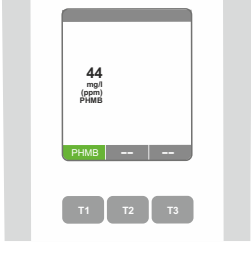
If multiple parameters:
See page 36



... p. 36

12

13



ppm = mg/l

Be sure to clean all objects that have come into contact with the reagent thoroughly with a brush, water and then distilled water, otherwise the measuring equipment may turn blue over time. This method is calibrated for alkalinity values (M) =120 mg/l and calcium hardness values =200 mg/l. Deviating alkalinity values / calcium hardness values can lead to measurement deviations.

Maak alle voorwerpen die met het reagens in aanraking zijn gekomen grondig schoon met een borstel, water en vervolgens gedestilleerd water, anders kan de meetapparatuur na verloop van tijd blauw worden. Deze methode is gekalibreerd voor alkaliteitswaarden (M) =120 mg/l en calciumhardheidswaarden =200 mg/l. Afwijkende alkaliteitswaarden / calciumhardheidswaarden kunnen leiden tot meetafwijkingen.

Sørg for at rengøre alle genstande, der er kommet i kontakt med reagenset, grundigt med en børste, vand og derefter destilleret vand, da måleudstyret ellers kan blive blåt med tiden. Denne metode er kalibreret for alkalinitetsværdier (M) =120 mg/l og calciumhårdhedsværdier =200 mg/l. Afvigende alkalinitetsværdier / calciumhårdhedsværdier kan føre til måleafvigelser.

Sørg for å rengjøre alle gjenstander som har vært i kontakt med reagenset grundig med en børste, vann og deretter destillert vann, ellers kan måleutstyret bli blått over tid. Denne metoden er kalibrert for alkalinitetsverdier (M) =120 mg/l og kalsiumhardhetsverdier =200 mg/l. Avvikende alkalinitetsverdier / kalsiumhardhetsverdier kan føre til måleavvik.

Se till att rengöra alla föremål som har kommit i kontakt med reagensen noggrant med en borste, vatten och sedan destillerat vatten, annars kan mätutrustningen bli blå med tiden. Denna metod är kalibrerad för alkalinitetsvärden (M) =120 mg/l och kalciumhårdhetsvärden =200 mg/l. Avvikande alkalinitetsvärden/kalciumhårdhetsvärden kan leda till avvikelser i mätningen.

OR

4.00

2.00

0.00

Phosphate (LR)
Fosfaat (LR)
Fosfat (LR)

1 2 3

ONLY SINGLE

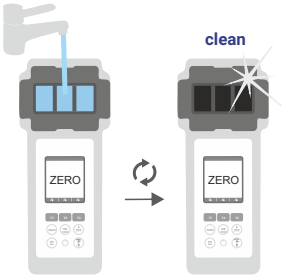
21–PPLR

0.00 – 4.00 ppm (mg/l) PO_4^{3-}

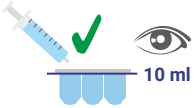
Phosphate LR N°1 Powder Pillow*
Phosphate LR N°2 Photometer*

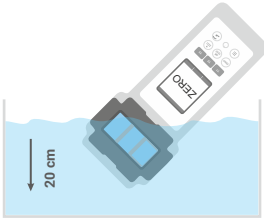
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

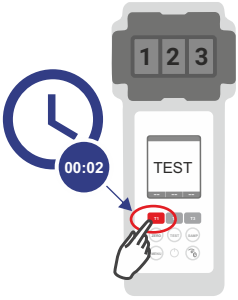
3


ZERO

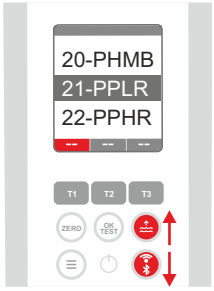
4


1 2 3
ZERO

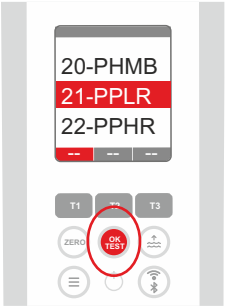
5


1 2 3
00:02
TEST

6

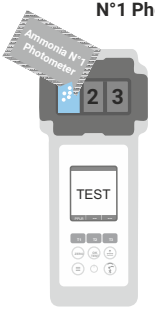

20-PHMB
21-PPLR
22-PPHR
T1
T2
T3
ZERO
OK
TEST

7



8

1 x Phosphate LR
N°1 Photometer



9

10

1 x Phosphate LR
N°2 Photometer

11

Completely Dissolved

NO Residue

12

13

14

ppm = mg/l

OR

80

40

0

Phosphate (HR)
Fosfaat (HR)
Fosfat (HR)

1 2 3

ONLY CHAMBER 2
ONLY SINGLE

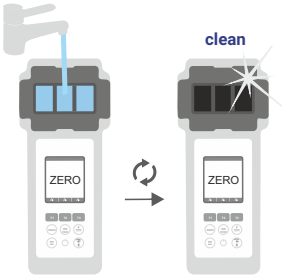
22–PPHR

0 – 80 ppm (mg/l) PO_4^{3-}

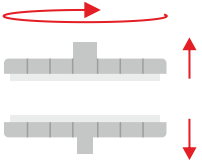
Phosphate HR N°1 Photometer Powder Pillow*
Phosphate HR N°2 Photometer*

*not part of standard equipment

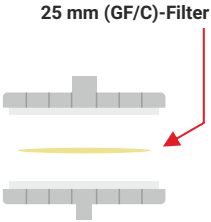
1 1...10 → Page 46



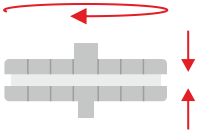
2



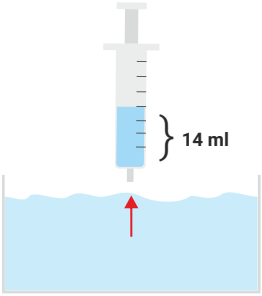
3



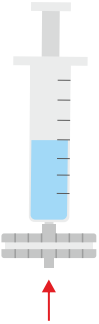
4

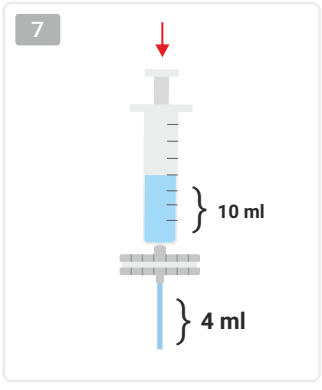


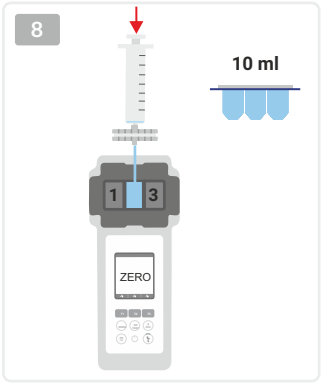
5

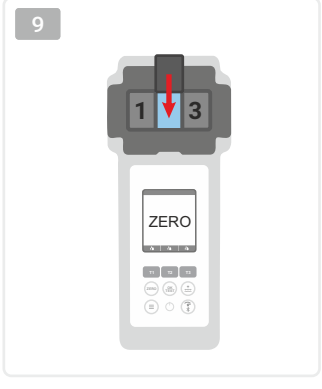


6




7
10 ml
4 ml

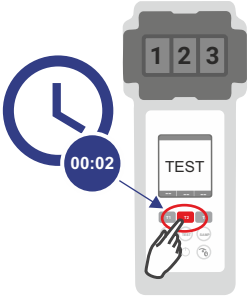

8
10 ml
1
3
ZERO


9
1
3
ZERO


10
1
2
3
ZERO

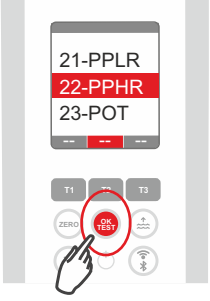
11

CHAMBER 2!



12

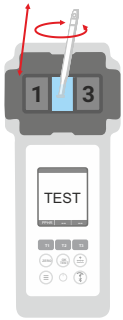
13



14

CHAMBER 2!
1 x Phosphate HR
N°1 Photometer

15



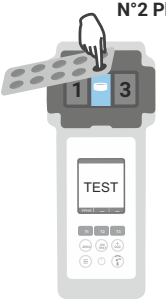
Completely Dissolved

NO Residue

16

CHAMBER 2!

1 x Phosphate HR N°2 Photometer



17

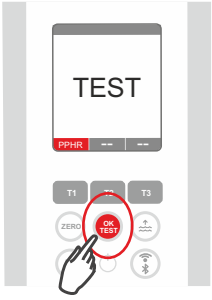
USE FORCE!

Completely Dissolved

NO Residue

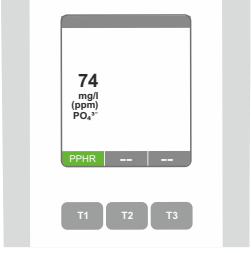
18

19



20

21



ppm = mg/l

OR

12.0

6.0

0.7

Potassium
Kalium

ONLY CHAMBER 2

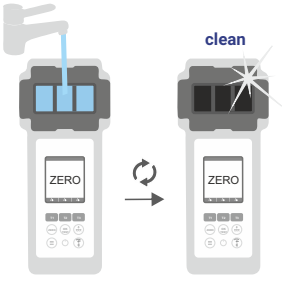
23–POT

0.7 – 12.0 ppm (mg/l) K^+

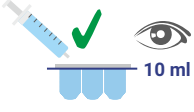
Potassium Photometer*

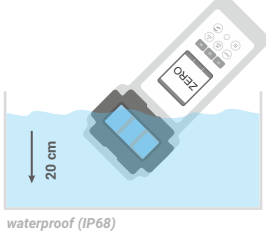
*not part of standard equipment

1 1...4 → Page 46



2





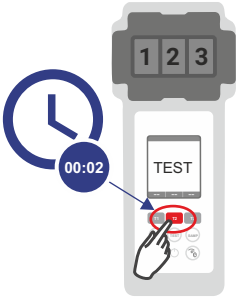
waterproof (IP68)

3

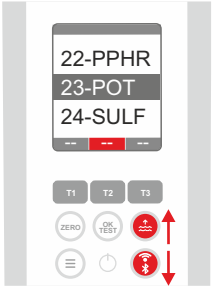
4

5

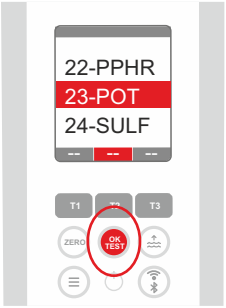
CHAMBER 2!



6

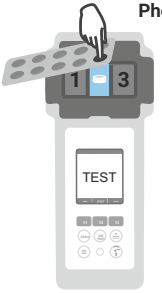


7



8

CHAMBER 2!
1 x Potassium Photometer

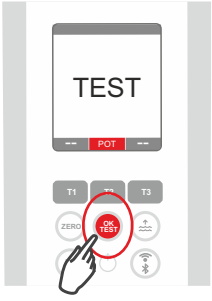


9

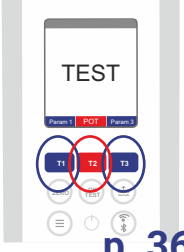
10

11

If single parameter:

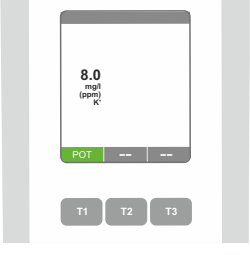


If multiple parameters:
See page 36



... p. 36

12



ppm = mg/l

OR

100

50

5

Sulphate
Sulfaat
Sulfat

ONLY CHAMBER 2

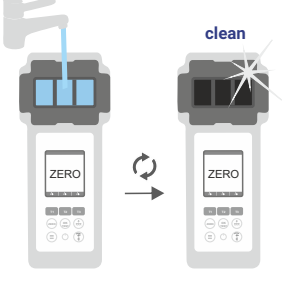
24–SULF

5 – 100 ppm (mg/l) SO_4^{2-}

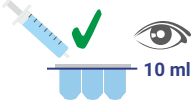
Sulphate Photometer Powder Pillow*

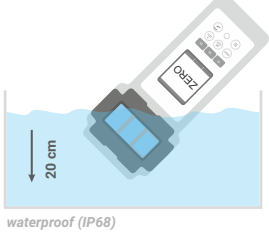
*not part of standard equipment

1 1...4 → Page 46



2





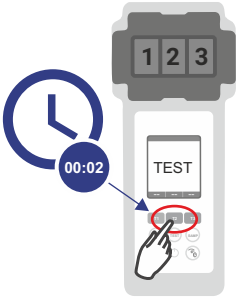
waterproof (IP68)

3

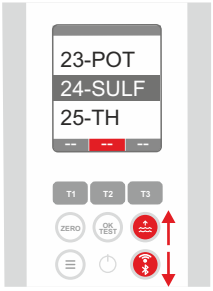
4

5

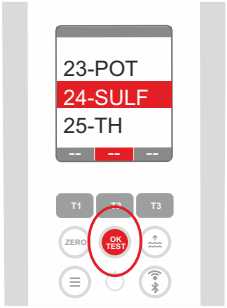
CHAMBER 2!



6



7



8

1 x Sulphate Photometer

CHAMBER 2!

9

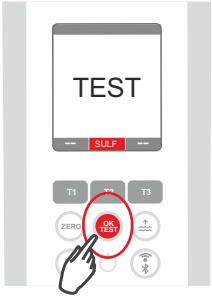
Completely Dissolved

NO Residue

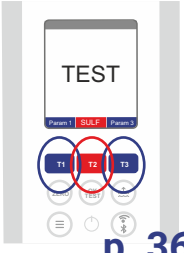
10

11

If single parameter:



If multiple parameters:
See page 36



... p. 36

12

ppm = mg/l

OR

500

200

0

Total Hardness
Totale hardheid
Samlet hårdhed
Total hardhet
Total hårdhet

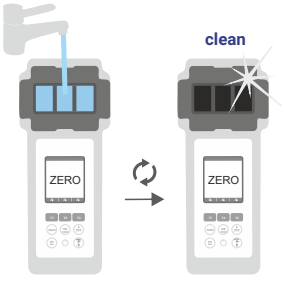
25–TH

0 – 500 ppm (mg/l) $CaCO_3$

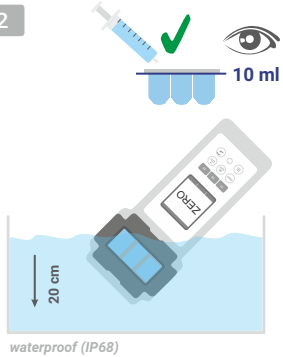
- Total Hardness N°1*
- Total Hardness N°2*

*not part of standard equipment

1 1...4 → Page 46



2



waterproof (IP68)

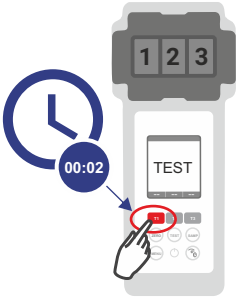
3


ZERO

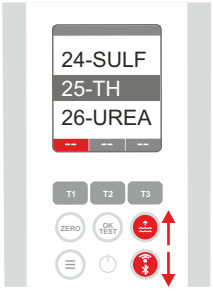
4


1 2 3
ZERO

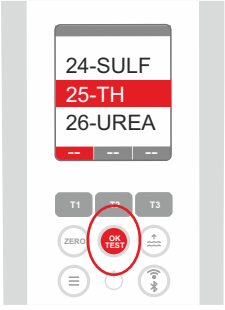
5


1 2 3
00:02
TEST

6


24-SULF
25-TH
26-UREA
T1
T2
T3
ZERO
OK
TEST

7



8

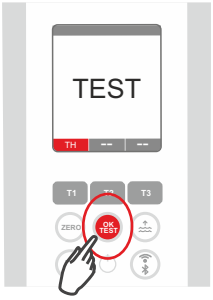
10 POL20TH1*
4 POL20TH2*
*Shake
Before Use!

9

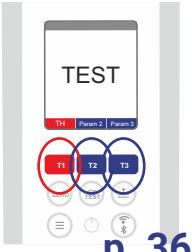
10

11

If single parameter:



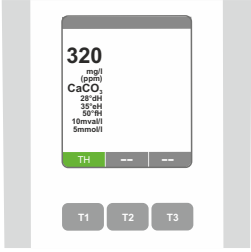
If multiple parameters:
See page 36



... p. 36

12

13



ppm = mg/l

OR
2.50
1.20
0.10
UR

Urea
Ureum
Urea

1 2 3
ONLY SINGLE

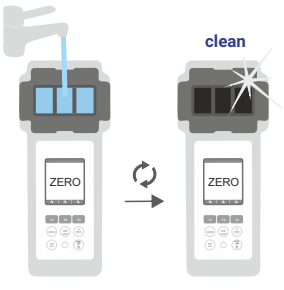
26–UREA

0.10 – 2.50 ppm (mg/l) $(NH_2)_2CO$

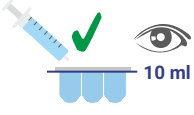
Dechlor*
PL Urea N°1*
PL Urea N°2*
Ammonia N°1 Photometer Powder Pillow*
Ammonia N° 2 Photometer Powder Pillow*

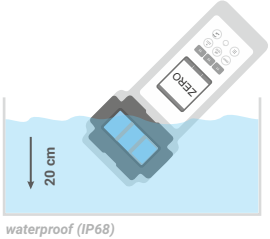
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

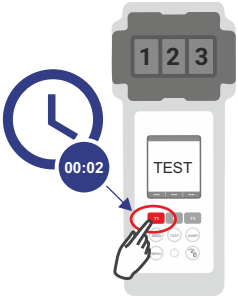
3


ZERO

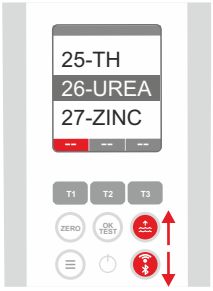
4


1 2 3
ZERO

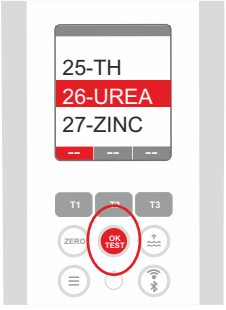
5


1 2 3
00:02
TEST

6


25-TH
26-UREA
27-ZINC
T1
T2
T3
ZERO
OK
TEST

7



8

2 PL Urea 1*
*Shake
Before Use!

9

10

1 PL Urea 2*
*Shake
Before Use!

11

12

13

5:00 min

14

1 x Ammonia N°1 Photometer

15

Completely Dissolved

NO Residue

16

1 x Ammonia N°2 Photometer

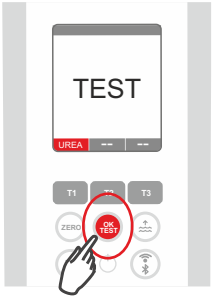
17

Completely Dissolved

NO Residue

18

19



20

21

ppm = mg/l

	If chlorine is present, a DECHLOR tablet must be added beforehand.
	Bij aanwezigheid van chloor moet vooraf een DECHLOR-tablet worden toegevoegd.
	Hvis der er klor til stede, skal der på forhånd tilsættes en DECHLOR-tablet.
	Hvis klor er til stede, må en DECHLOR-tablett tilsettes på forhånd.
	Om det finns klor måste en DECHLOR-tablett tillsättas i förväg.

OR

1.00

0.50

0.00

Zinc (with chlorine)
Zink (met Chloor)
Zink (med Klor)
Sinc (med Klor)
Zink (med Klor)

1 2 3

ONLY SINGLE

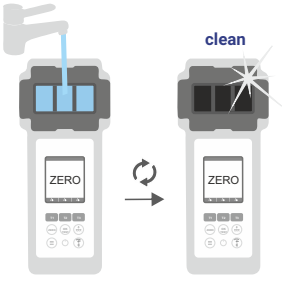
27–ZINC

0.00 – 1.00 ppm (mg/l) Zn^{2+}

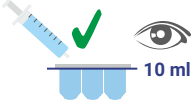
Dechlor*
Copper/Zinc LR Photometer*
EDTA*

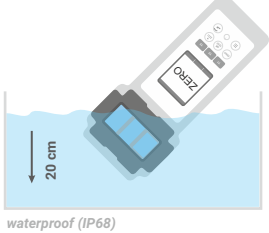
*not part of standard equipment

1 1...4 → Page 46



2





waterproof (IP68)

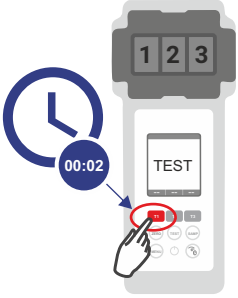
3


ZERO

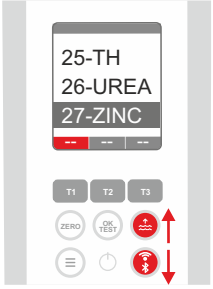
4


1 2 3
ZERO

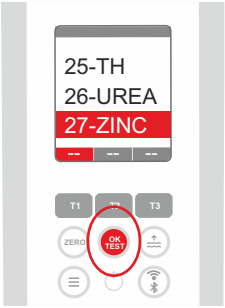
5


1 2 3
00:02
TEST

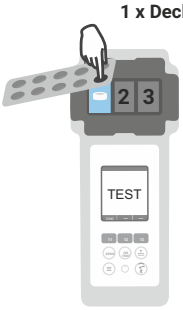
6


25-TH
26-UREA
27-ZINC
T1
T2
T3
ZERO
OK
TEST

7



8



9

Completely Dissolved

NO Residue

10

11

00:15 min

12

1 x Copper/Zinc LR

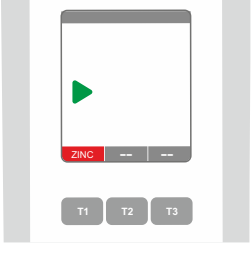
13

14

15

16

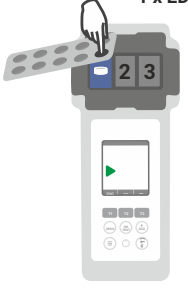
17



ppm = mg/l

18

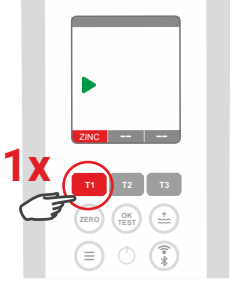
1 x EDTA



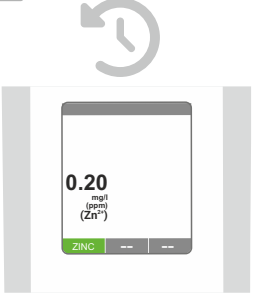
19

20

21



22



ppm = mg/l

	$CaCO_3$ mg/l	$K_{S\,4,3}$ mmol/l	°dH (KH)	°e (CH)	°f (DC)	mval
1 mg/l $CaCO_3$	1	0.01	0.056	0.07	0.1	0.02
1 mmol/l $K_{S\,4,3}$	100	1	5.6	7.0	10.0	2

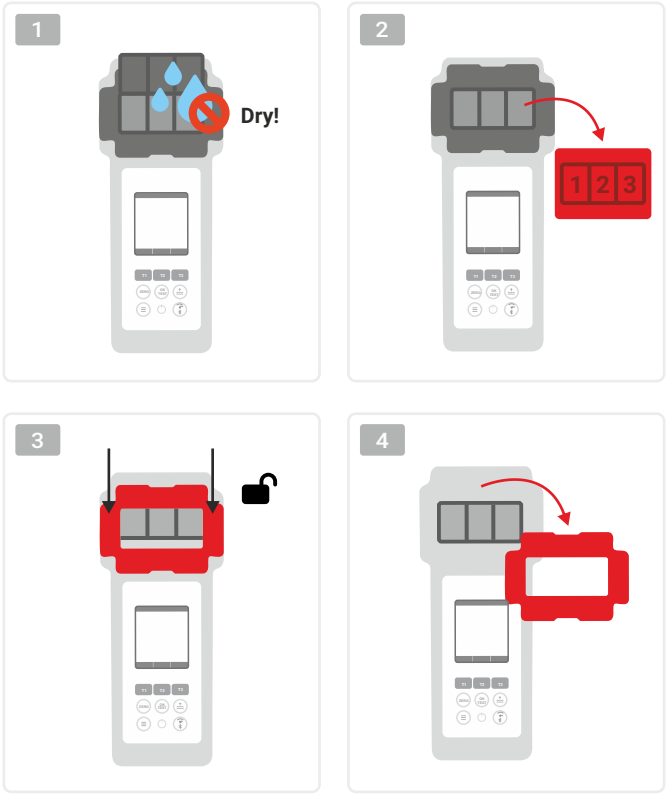
OR = Overrange / UR = Underrange.
Test result is outside the range of the method. OR results can be brought into measurement range by dilution. Use syringe to take only 5ml (or 1ml) sample water plus 5ml (9ml) distilled water. Test again and multiply results times 2 (times 10). Dilution does not work with „pH" measurement.

OR = Overrange (hoger dan het meetbereik) / UR = Underrange (lager dan het meetbereik).
Het testresultaat ligt buiten het bereik van de methode. OR-resultaten kunnen door verdunning binnen het meetbereik worden gebracht. Neem met een spuit slechts 5ml (of 1ml) monsterwater plus 5ml (9ml) gedestilleerd water. Test opnieuw en vermenigvuldig de resultaten met 2 (maal 10). Verdunning werkt niet bij "pH"-meting.

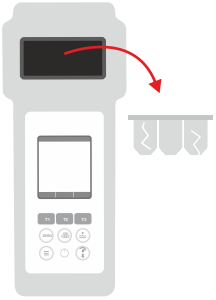
OR = Overrange (højere end måleområdet) / UR = Underrange (lavere end måleområdet).
Testresultatet ligger uden for metodens område. OR-resultater kan bringes inden for måleområdet ved fortynding. Brug sprøjten til kun at tage 5 ml (eller 1 ml) prøvevand plus 5 ml (9 ml) destilleret vand. Test igen og multiplicer resultatet med 2 (gange 10). Fortynding virker ikke ved "pH"-måling.

OR = Overrange (høyere enn måleområdet) / UR = Underrange (lavere enn måleområdet).
Testresultatet er utenfor metodens måleområde. OR-resultater kan bringes inn i måleområdet ved fortynning. Bruk sprøyte til å ta bare 5 ml (eller 1 ml) prøvevann pluss 5 ml (9 ml) destillert vann. Test igjen og multipliser resultatene med 2 (ganger 10). Fortynning fungerer ikke med "pH"-måling.

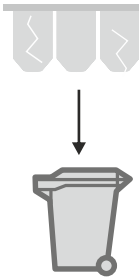
OR = överskridande (högre än mätområdet) / UR = underskridande (lägre än mätområdet).
Testresultatet ligger utanför metodens mätområde. OR-resultatet kan föras in i mätområdet genom utspädning. Använd sprutan för att ta endast 5 ml (eller 1 ml) provvatten plus 5 ml (9 ml) destillerat vatten. Gör ett nytt test och multiplicera resultatet med 2 (10). Utspädning fungerar inte vid pH-mätning.


1
Dry!
2
1 2 3
3
4

5

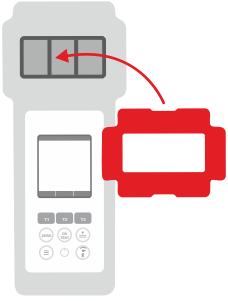


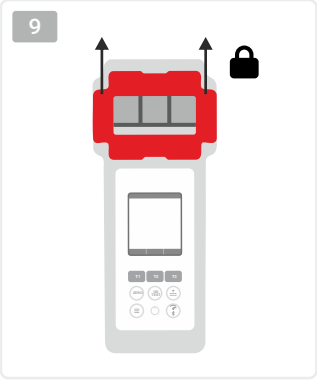
6

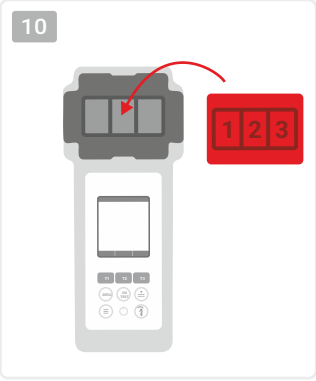


7

8







	Once the cuvette got changed,a calibration MUST be carried out. Please follow the steps indicated on page 19.
	Zodra de kuvette is vervangen, MOET een kalibratie worden uitgevoerd. Volg de op bladzijde 19 aangegeven stappen.
	Når kuvetten er blevet skiftet, SKAL der foretages en kalibrering. Følg venligst de trin, der er angivet på side 19.
	Når kyvetten er skiftet, MÅ en kalibrering utføres. Følg trinnene som er angitt på side 19.
	När kyvetten har bytts ut MÅSTE en kalibrering utföras. Följ de steg som anges på sidan 19.

C!D	Change batteries
	Batterijen vervangen
	Skift batterier
	Bytt batterier
	Byt batterier

E300	Calibration required
	Vereiste kalibratie
	Påkrævet kalibrering
	Kalibrering påkrevd
	Kalibrering krävs

E800	Sensor defect
	Defecte sensor
	Defekt sensor
	Defekt sensor
	Defekt sensor

E701	Hardware error (LED)
	Hardwarefout (LED)
	Hardwarefejl (LED)
	Maskinvarefeil (LED)
	Maskinvarufel (LED)

E702	Hardware error (memory)
	Hardwarefout (geheugen)
	Hardwarefejl (hukommelse)
	Maskinvarefeil (minne)
	Maskinvarufel (minne)

E501	Bluetooth/WiFi error
	Bluetooth/WiFi fout
	Bluetooth/WiFi fejl
	Bluetooth/WiFi-feil
	Bluetooth/WiFi-fel

E502	Hardware error (other)
	Hardwarefout (overig)
	Hardwarefejl (andet)
	Maskinvarefeil (annet)
	Maskinvarufel (annat)

E401	WiFi not found/ login data incorrect
	WiFi niet gevonden/inloggegevens onjuist
	WiFi ikke fundet/ login-data forkert
	WiFi ikke funnet/ påloggingsdata feil
	WiFi inte funnen/ felaktiga inloggningsuppgifter

E402	Update server not available
	Update server niet beschikbaar
	Opdateringsserver ikke tilgængelig
	Oppdateringsserver ikke tilgjengelig
	Uppdateringsservern är inte tillgänglig

E403	Error in the update log
	Fout in het updatelogboek
	Fejl i opdateringsloggen
	Feil i oppdateringsloggen
	Fel i uppdateringsloggen

E404	Cloud server connection error
	Cloud server verbindingsfout
	Cloud-serverforbindelsesfejl
	Feil ved tilkobling til skyserver
	Fel i anslutningen till molnservern

E405	Protocol Error (perform a firmware update)
	Protocol fout (voer een firmware update uit)
	Protokolfejl (udfør en firmwareopdatering)
	Protokollfeil (utfør en fastvareoppdatering)
	Protokollfel (utför en uppdatering av den fasta programvaran)

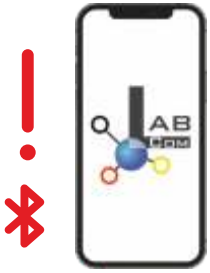
E406	Cloud server login error (wrong password)
	Cloud server login fout (verkeerd wachtwoord)
	Fejl ved login til cloud-server (forkert adgangskode)
	Feil ved pålogging til skyserver (feil passord)
	Fel vid inloggning till molnservern (fel lösenord)

Reagents | Reagentia | Reagenser

POL-Ref	Mix-Refill Pack with 70 tablets (20 each of DPD 1, Phenol Red, 10 each of Alka-M, CYA-Test and DPD 3)
TbsPD450	50 tablets DPD N°4 Photometer
TbsPTA50	50 tablets Alka-M Photometer
TbsHALM150	50 tablets Aluminium N°1 Photometer
TbsPALM250	50 tablets Aluminium N°2 Photometer
PPHAM150	50 powder pillows Ammonia N°1 Photometer
PPPAM250	50 powder pillows Ammonia N°2 Photometer
TbsPD150	50 tablets DPD N°1 Photometer
TbsPD250	50 tablets DPD N°2 Photometer
TbsPD350	50 tablets DPD N°3 Photometer
PL30DPD1A	30 ml DPD 1A Liquid
PL65DPD1A	65 ml DPD 1A Liquid
PL30DPD1B	30 ml DPD 1B Liquid
PL65DPD1B	65 ml DPD 1B Liquid
PL30DPD3C	30 ml DPD 3C Liquid
PL65DPD3C	65 ml DPD 3C Liquid
TbsHGC50	50 tablets Glycine Photometer
PPPCLHR50	50 powder pillows Chlorine HR KI Photometer
PPHAFG50	50 powder pillows Acidifying GP
TbsHCu150	50 tablets Copper N°1 Photometer
TbsPCu250	50 tablets Copper N°2 Photometer
TbsPCAT50	50 tablets CYA-Test Photometer
POL2020CH12	20/20 ml Calcium Hardness 1 and 2 (liquid)
POL2010TH12	20/10 ml Total Hardness 1 and 2 (liquid)
TbsPHP50	50 tablets Hyd. Peroxide LR Photometer
TbsHAFPP50	50 tablets Acidifying PT Photometer
PPPHPHR50	50 powder pillows Hyd. Peroxide HR Photometer
TbsPILR50	50 tablets Iron LR Photometer
PPHNitra150	50 powder pillows Nitrate N°1 Photometer
PPPNitra250	50 powder pillows Nitrate N°2 Photometer
PPPNILR50	50 powder pillows Nitrite LR Photometer
TbsPpH50	50 tablets Phenol Red Photometer
TbsPPB50	50 tablets PHMB Photometer
PPHPPLR150	50 powder pillows Phosphate LR N°1 Photometer
TbsPPPLR250	50 tablets Phosphate LR N°2 Photometer
PPHPPHR150	50 powder pillows Phosphate HR N°1 Photometer
TbsPPPHR250	50 tablets Phosphate HR N°2 Photometer
TbsPPTST50	50 tablets Potassium Photometer

PPPSULP50	50 powder pillows Sulphate Photometer
POL42Urea12	4/2 ml Urea 1 and 2 (liquid)
TbsPCZ50	50 tablets Copper/Zinc LR Photometer
TbsHED50	50 tablets EDTA
TbsHDC	50 tablets Dechlor

Spare parts | Onderdelen | Reservedele | Reservedeler | Reservdelar	
POL2Sp-kv	PoolLab® 2.0 Replacement cuvette
POL2Sp-refkit	Check-Standard kit (3 x POL2Sp-kv) with check standards for ZERO/Chlorine LR/ Chlorine HR/pH/TA/CYA/Total Hardness
POL2Sp-ls	Light shield for PoolLab® 2.0
POL2Sp-cuvhold	Cuvette holder for PoolLab® 2.0
POLSp-str	White 10.5 cm plastic stirring rod
POL2Sp-strB	Blue 10.5 cm plastic stirring rod
POL2Sp-strR	Red 10.5 cm plastic stirring rod
POL2Sp-bag	Nylon bag for PoolLab® 2.0
FW25-shaker	25ml shaker for Nitrate test
PLSp-InjFil-1	20ml luer lock syringe for filter-adapter
PLSp-Filtad	Adapter for filter papers
PLSp-FiltGFC	50 x 24mm GF/C filter papers



	Connect the PoolLab® 2.0 via Bluetooth® to the LabCOM® app to set the WiFi connection, the cloud, the date/time and the sampling points.
	Verbind de PoolLab® 2.0 via Bluetooth® met de LabCOM® app om de WiFi-verbinding, de cloud, de datum/tijd en de bemonsteringspunten in te stellen.
	Tilslut PoolLab® 2.0 via Bluetooth® til LabCOM®-appen for at indstille WiFi-forbindelsen, skyen, dato/tid og prøveudtagningsstederne.
	Koble PoolLab® 2.0 via Bluetooth® til LabCOM®-appen for å stille inn WiFi-tilkoblingen, skyen, dato/tid og prøvetakingspunktene.
	Anslut PoolLab® 2.0 via Bluetooth® till LabCOM®-appen för att ställa in WiFi-anslutningen, molnet, datum/tid och provtagningspunkterna.

FAQ	**https://poollab.org**
MSDS	**https://msds.water-id.com**
Cloud	**https://labcom.cloud**

Developed in Germany | Assembled in PRC

LED:	435 nm (only chamber 2) | 530 nm | 570 nm | 620 nm
	3 x AA (1.5 V, LR03) **Do not use rechargeable batteries!**
	300 sec.
	5 – 45°C
	IP 68 (1 h | 1.2 m)
MEMORY:	Max. 1,200 measurements
	Max. 20 sampling points

Under laboratory conditions, the instrument-/reagent- and user-related tolerances can be up to +/- 10 % of the actual value.
For the parameter "pH" a tolerance of up to +/- pH 0.10 applies.

Onder laboratoriumomstandigheden kunnen de instrument-/reagent- en gebruikersgerelateerde toleranties tot +/- 10 % van de werkelijke waarde bedragen.
Voor de parameter "pH" geldt een tolerantie tot +/- pH 0,10.

Under laboratorieforhold kan instrument-/reagent- og brugerrelaterede tolerancer være op til +/- 10 % af den faktiske værdi.
For parameteren "pH" gælder en tolerance på op til +/- pH 0,10.

Under laboratorieforhold kan de instrument-/reagens- og brukerrelaterte toleransene være opptil +/- 10 % av den faktiske verdien.
For parameteren "pH" gjelder en toleranse på opptil +/- pH 0,10.

Under laboratorieförhållanden kan instrument-/reagens- och användarrelaterade toleranser vara upp till +/- 10 % av det faktiska värdet.
För parametern "pH" gäller en tolerans på upp till +/- pH 0,10.

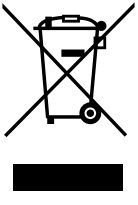
Disposal instructions according to
EU directive by the European Parliament and Council: 2002/96/EC
EU directive by the European Parliament and Council: 2006/66/EC

Environmental protection information
For the manufacture of your device, raw materials had to be produced and processed.
The product may there contain hazardous substances with a negative effect on the environment if the device is not disposed of properly.

Disposal of the device inclusive batteries
EU directive 2006/66/EC prohibits the disposal of batteries through normal household waste because batteries and accumulators may contain hazardous substance dangerous for the groundwater quality.
The device purchased by you contains replaceable AA-batteries (Alkaline).
We are obliged by law to notify you that the batteries contained in the device must be disposed of properly at special collection points or with the dealer where you have purchased the device.
The symbol of the crossed-out waste bin indicates that you are asked to dispose of the device properly.
To avoid that hazardous substances do enter the environment and to not contribute to a depletion of raw material resources, we kindly ask you to return the device by fully stamped mail (!) to the following address:

Water-i.d. GmbH
Daimlerstrasse 20
D-76344 Eggenstein-Leopoldshafen
Germany

PoolLab 2.0 battery certifications and shipping conformity statements are available upon request (support@water-id.com).



RoHS Declaration of Conformity

"Directive 2011/65/EU (the RoHS Directive) OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment" superseding "Directive 2002/95/EC (the RoHS Directive) OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003. The Certificate of Compliance includes Directive 2015/863 published in 2015 by the EU (often referred as RoHS 3) and Directive 2017/2102/EU published by the EU November 17, 2015.

Based on the information provided by our supply lines, and our certain knowledge pertaining to our own processes, products supplied by Water-i.d. GmbH are RoHS compliant for orders placed on or after the January 1, 2006. Products supplied on or after January 3, 2013 are also RoHS compliant according the Directive 2011/65/EU, Directive 2015/863 and Directive 2017/2102/EU from the moment the respected directive came into force.

The confirmation of compliance status by our supply lines is granted for products which do not contain any of the restricted substances referred to in Annex VI in the RoHS Directive 2011/65/EU & Directive 2015/863 with a higher than maximum concentration values tolerated by weight in homogeneous materials.

Water-i.d. GmbH has taken all reasonable steps to verify the supply line information regarding the absence of restricted substances.

Safety Instructions

This equipment is not suitable for use in areas where children may be present.

Cet équipment ne convient pas à une utilisation dans des lieux susceptibles d'accueillir des enfants.

CAUTION:

Battery abuse or mishandling can cause overheat, liquid leakage, or an explosion. To avoid possible injury, do the following:

• Install batteries according to the battery model and polarity information in the battery compartment.

• Do not disassemble, or service any battery.

• Do not crush or puncture the battery.

• Do not short-circuit the battery, or expose it to water or other liquids.

ATTENTION :

L'abus ou la mauvaise manipulation de la batterie peut provoquer une surchauffe, une fuite de liquide ou une explosion. Pour éviter tout risque de blessure, procédez comme suit :

- Installez les piles conformément au modèle de pile et aux informations sur la polarité figurant dans le compartiment à piles.

- Ne démontez pas et ne réparez pas les piles.

- N'écrasez pas et ne percez pas la batterie.

- Ne court-circuitez pas la batterie et ne l'exposez pas à l'eau ou à d'autres liquides.

According to directive 2014/53/EC of the European Parliament
and European Council of April 16, 2014.

The contracted manufacturer Dongguan Welltime Technology Ltd.
No.3, Dongyuan 3rd Road, Lianhu 2nd Industrial Zone
CN-523702 Tangxia Town, Dongguan City
Peoples Republic of China

herewith declares as follows:

The product "PoolLab 2.0"
complies with the requirements of the following standards for:

- BT 4.2 (BLE) + BT 2.1
- 802.11 b/g/n

Electro-Magnetic-Compatibility (EMC) standards for radio equipment and services:
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4

Radio standards:	**Frequency:**	**Power:**
ETSI EN 300 328 V2.2.2	2.400 - 2.4835 GHz	<100mW

Safety standard:
EN IEC 62368-1:2020+A11:2020

SAR testing standard:
EN 50566:2017
EN 62479:2010
EN 50663:2017
IEC/IEEE 62209-1528:2020

Frequency bands and power:
Maximum radio frequency power transmitted in the frequency bands in which the radio equipment operates: The maximum power for all bands is less than the highest limit value specified in the related Harmonized Standard.
The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to this radio equipment are as follows: Wi-Fi 2.4G: 20 dBm, Bluetooth 2.4G: 20 dBm.

Hereby, Water-i.d. GmbH, Daimlerstr. 20, D-76344 Eggenstein-Leopoldshafen, Germany, declares that this device is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU and the Radio Equipment Regulations 2017 (S.I. 2017/1206).
A copy of the Declaration of conformity can be downloaded from www.poollab.org

The contracted manufacturer Dongguan Welltime Technology Ltd.
No.3, Dongyuan 3rd Road, Lianhu 2nd Industrial Zone
CN-523702 Tangxia Town, Dongguan City
Peoples Republic of China

herewith declares as follows:

Body worn operation
The device complies with RF specifications when used at a distance of 0 mm from your body. Ensure that the device accessories, such as a device case and device holster, are not composed of metal components. Keep the device away from your body to meet the distance requirement.

Specific Absorption Rate (SAR) information:
This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. ISED RF Exposure Information and Statement the SAR limit of Canada(ISED) is 1.6 W/kg averaged over one gram of tissue. PoolLab 2.0 Photometer has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the device kept 0mm from the body. To maintain compliance with ISED RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the device . The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with ISED RF exposure requirements, and should be avoided.

Informations sur le débit d'absorption spécifique (DAS):
Cette appareil répond aux exigences du gouvernement en matière d'exposition aux ondes radio. Les lignes directrices sont basées sur des normes élaborées par des organisations scientifiques indépendantes à travers une évaluation périodique et approfondie des études scientifiques. Les normes comprennent une marge de sécurité substantielle conçue pour assurer la sécurité de toutes les personnes, quel que soit leur âge ou leur état de santé. Information et déclaration d'ISDE sur l'exposition aux RF la limite DAS du Canada (ISDE) est de 1,6 W / kg en moyenne sur un gramme de tissu. La PoolLab 2.0 Photometer a également été testée par rapport à cette limite SAR. Cet appareil a été testé pour des opérations typiques portées sur le corps avec le dos de la appareil gardé à 0 mm du corps. Pour maintenir la conformité avec les exigences d'exposition RF d'ISDE, utilisez des accessoires qui maintiennent une distance de séparation de 0 mm entre le corps de l'utilisateur et l'arrière de la appareil. L'utilisation de clips de ceinture, d'étuis et d'accessoires similaires ne doit pas contenir de composants métalliques dans son assemblage. L'utilisation d'accessoires qui ne satisfont pas à ces exigences peut ne pas être conforme aux exigences d'exposition aux RF d'ISDE et doit être évitée.

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s).Operation is subject to the following two conditions:
(1)this device may not cause harmful interference, and
(2)this device must accept any interference received, including interference that may cause undesired operation.
Cet appareil est conforme à la partie 15 des règles de la FCC et aux normes RSS exemptées de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes :
(1)cet appareil ne doit pas causer d'interférences nuisibles, et
(2)cet appareil doit accepter toute interférence reçue, y compris les interferences pouvant entraîner un fonctionnement indés

Changes or modifications to this unit not expressly approved by the party responsible forcompliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.
cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.
Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

Continued...

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. Changes or modifications not expressly approved by Water-i.d. GmbH could void the user's authority to operate the equipment.

FCC ID: 2ALRR-POOLLABV2
IC: 22610-POOLLABV2
Model/HVIN: PoolLab 2.0

The SAR limit adopted by USA and Canada is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The highest SAR value reported to the Federal Communications Commission (FCC) and the Industry Canada (IC) for this device type when it is properly worn on the body is 0.038 watts/kilogram (W/Kg).

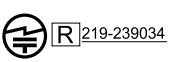
The device complies with the RF specifications when the device is used near your distance of 0 mm from your body. Ensure that the device accessories such as a device case and a device holster are not composed of metal components. Keep your device 0 mm away from your body to meet the requirement earlier mentioned.

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0 mm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

Tested standards:
- FCC part 15.247
- FCC part 2.1093
- ANSI/IEEE C95.1
- ANSI/IEEE C95.3
- FCC part 15B
- RSS-247
- ICES-003

We, Water-i.d. GmbH Germany, hereby declare that the product/model PoolLab 2.0 was certified for type certification pursuant to Article 2, paragraph 1, item 19.

Tests performed:
• J 55032



Type of radio wave, frequency and antenna power:
• BT 4.2 (BLE) + BT 2.1
• 802.11 b/g/n

Type certification number: 219-239034

We, Water-i.d. GmbH Germany, hereby certify our responsibility, that the product PoolLab 2.0 Photometer is tested to and conforms with the essential test suites included in the following standards, which are in force within the EEA:

Standards	**Legislation Number**
BS EN IEC 61326-1:2021 BS EN IEC 61326-2-1:2021 ETSI EN 301 489-1 V2.2.3: 2019 ETSI EN 301 489-17 V3.2.4: 2020	Regulations 2016 (S.I. 2016/1091)
BS EN IEC 62368-1:2020+A11:2020	Regulations 2016 (S.I. 2016/1101)
ETSI EN 300 328 V2.2.2: 2019	

And therefore complies with the essential requirements of the following directives:

Legislation Name	**Legislation Number**	**Further identification**
Electromagnetic Compatibility (EMC) Compatibility Regulations	Regulations 2016 (S.I. 2016/1091)	Electromagnetic
Electrical Equipment (Safety) Regulations	Regulations 2016 (S.I. 2016/1101)	Safety
Radio Equipment Regulations (S.I. 2017/1206)	Regulations 2017	Radio Equipment
Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations	Regulations 2012 (S.I. 2012/3032)	RoHS

Continued...

The technical documentation as required by the conformity assessment procedure is kept at the following address for a period ending at least 10 years after the last product has been manufactured at the disposal of the relevant national authorities of any Member State for inspection:

Water-i.d. GmbH (Germany)
Daimlerstr. 20 • 76344 Eggenstein • Germany

The product is UKCA-marked in:

Certificate of Compliance

We hereby certify that the device

PoolLab 2.0®

With it's serial number as stated below,
has passed intensive visual and technical checks
as part of our QM documentation. We confirm
the device got factory-calibrated.

Water–i.d.® GmbH (Germany)

Andreas Hock, Managing Director
Water–i.d.® GmbH | Daimlerstr. 20
76344 Eggenstein | Germany

S/N
Manufacturing date

Water–i.d.® is certified according to ISO 9001:2015