pooltotal
... wir machen Pools klar!

PoolLab® MultiTest PRO

Gebrauchsanleitung

User Manual

Manuel d'utilisation

V28

Inhalt • Content • Contenu

Lieferumfang • Delivery content
Contenu du colis

1 x	PoolLab® MultiTest PRO
1 x	Light shield
3 x	AAA Batteries
1 x	Crushing / Stirring Rods
1 x	10ml syringe
1 x	User guide
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

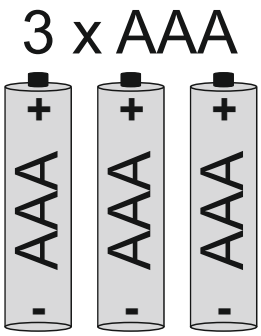
Giftzentrum München (24/7)
Poison center Munich (24/7):
+49 (0) 89-19240 (Deutsch & English)

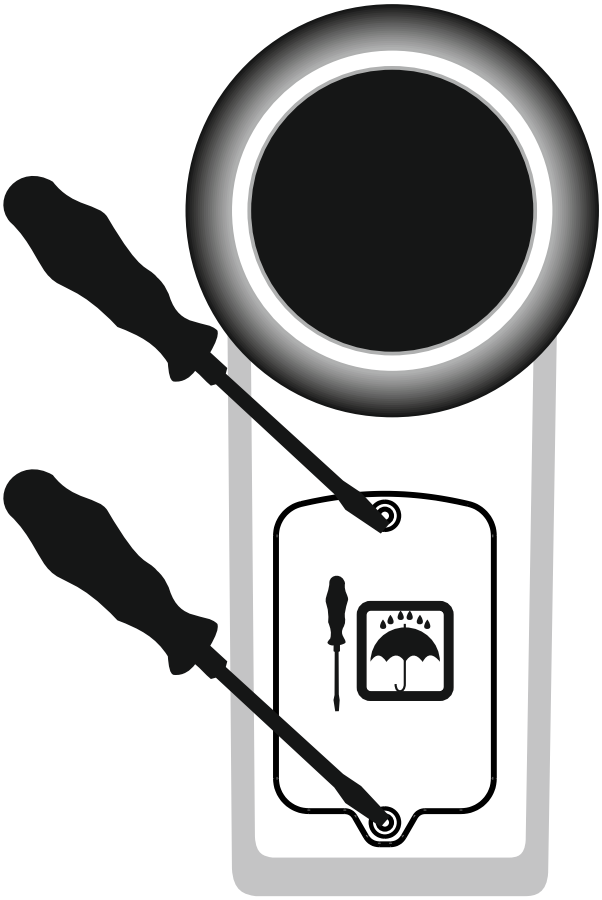
	Wasseranalysetabletten nur für chemische Analysen! Nicht einnehmen! Darf nicht in die Hände von Kindern gelangen! Kühl und trocken lagern!
	Reagents for water-analysis only! Do not eat! Keep out of reach of children! Store cool and dry!
	Utiliser uniquement des réactifs pour l‘analyse de l‘eau! Ne pas avaler! Garder hors de portée des enfants! Stocker au frais et au sec!

Batterien • Batteries • Piles

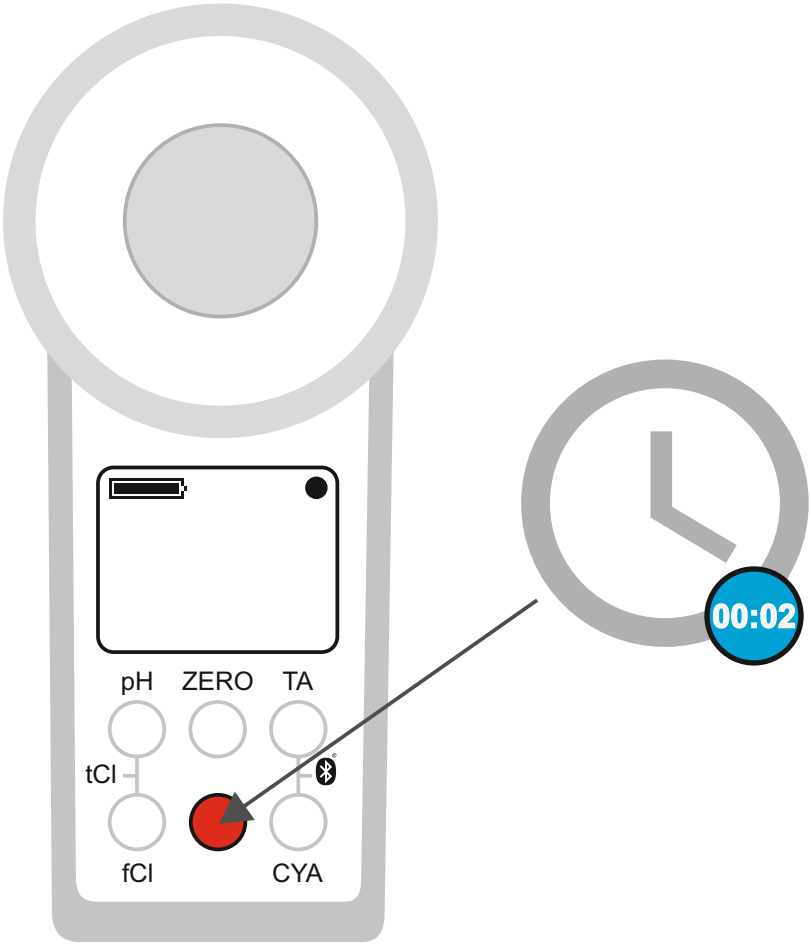
wechseln • change • chargement

Keine aufladbaren Batterien! • No rechargeable batteries!
Pas de piles rechargeables !





Einschalten • Switch on • Allumer



Die On/Off Taste kann auch zum Abbrechen des Countdowns während der Messung verwendet werden (nicht empfohlen).
On/Off button can also be used to skip countdown during measurement (not recommended).
Le bouton Marche/Arrêt peut être également utilisé pour ignorer le compte à rebours lors de la mesure (non recommandé).

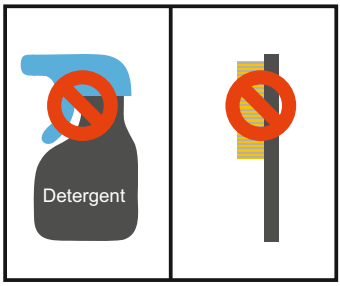
Hinweise • Advices • Conseils

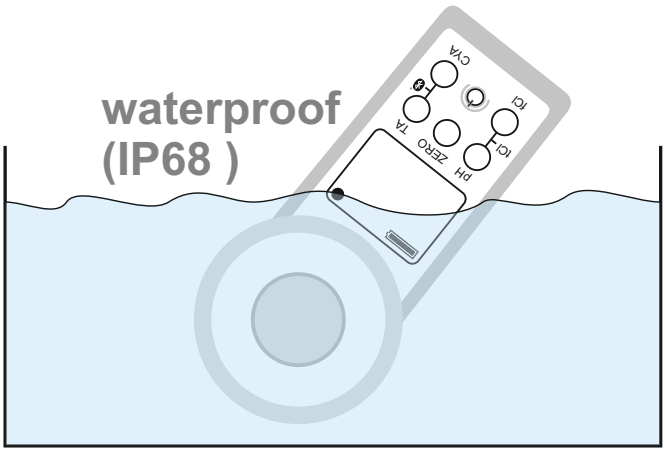
PHOTOMETER

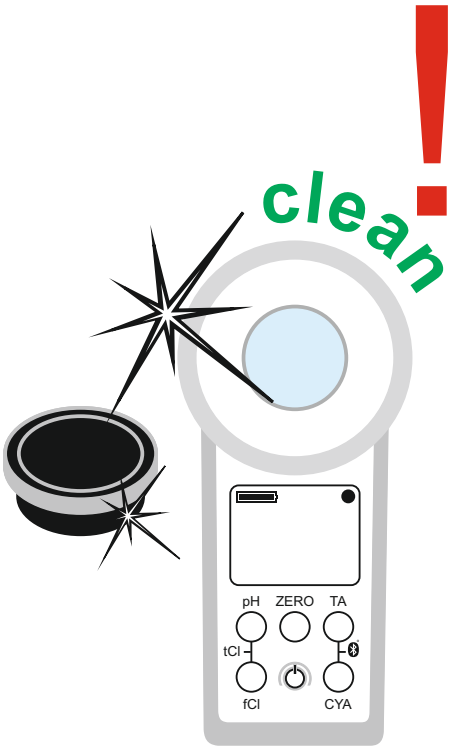
RAPID

Immer PHOTOMETER-Tabletten und nie RAPID-Tabletten verwenden! Die Tabletten dürfen nicht berührt werden!
Always use PHOTOMETER grade tablets! Never use RAPID grade tablets! Do not touch reagent tablets!
Utilisez toujours des pastilles de qualité PHOTOMETRE ! Ne jamais utiliser de pastilles de qualité RAPID! Ne pas toucher les pastilles de réactif!

Wichtig • Important







Es ist wichtig, das Gerät nach jeder Messung zu reinigen, um sämtliche Reagenzienrückstände zu entfernen!
It is important to clean the device after each measurement to get rid of any reagent residues!
Il est important de nettoyer le dispositif après chaque mesure pour éliminer les résidus de réactifs!

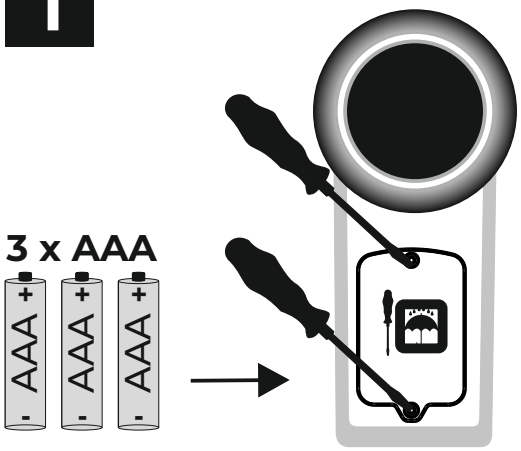
Wichtig • Important

Lassen Sie das Gerät nicht in der Sonne liegen!
Do not leave the device in the sun!
Ne laissez pas l'appareil au soleil!

Der PoolLab® MultiTest PRO ist auch für Salzwasserpools / Pools mit Salzelektrolyse geeignet!
The PoolLab® MultiTest PRO is also suitable for saltwater pools / salt electrolysis pools!
Le PoolLab® MultiTest PRO convient également aux piscines d'eau salée / piscines d'électrolyse au sel!

Kurzanleitung • Quick Start Guide
Guide de démarrage

1



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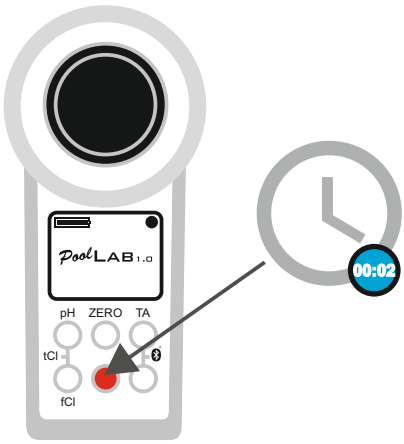
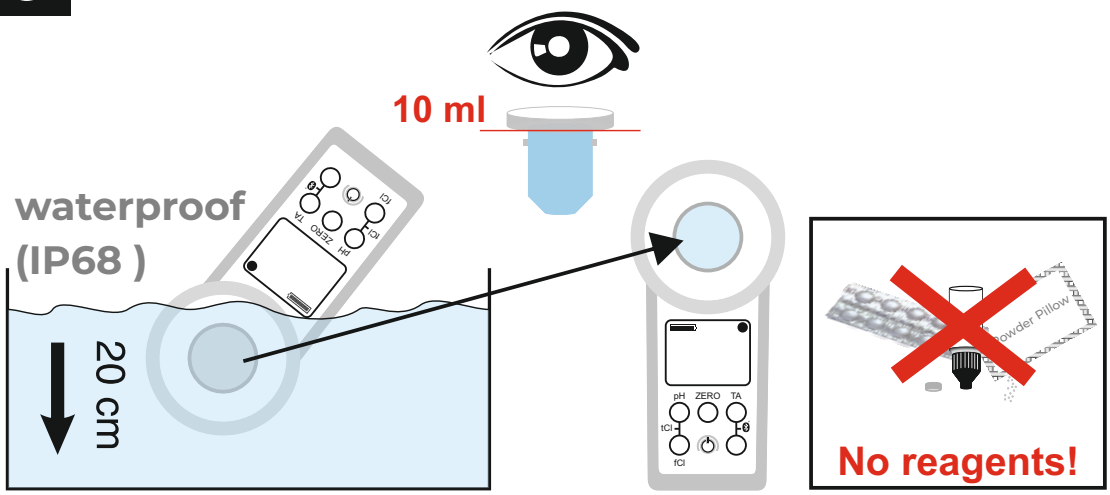


3

take 10 ml water sample



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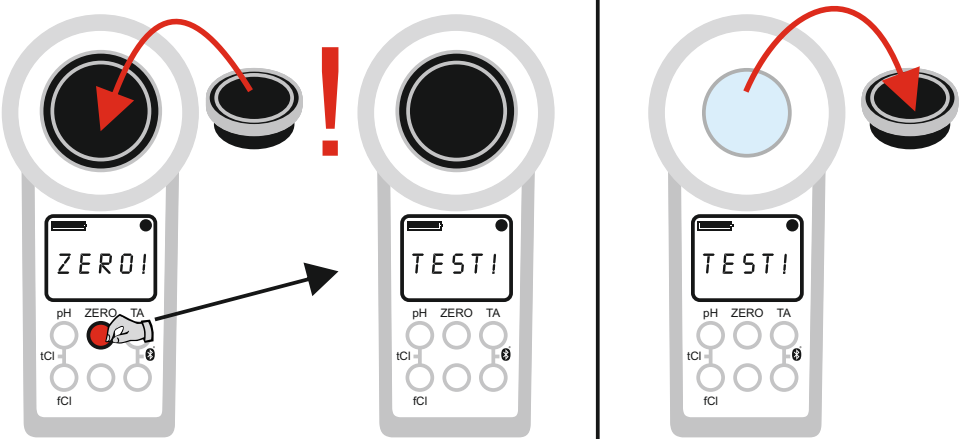

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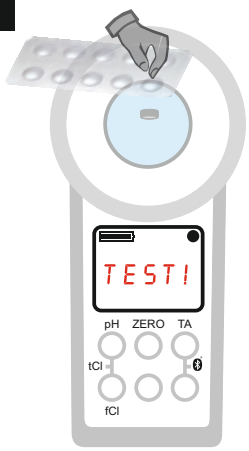

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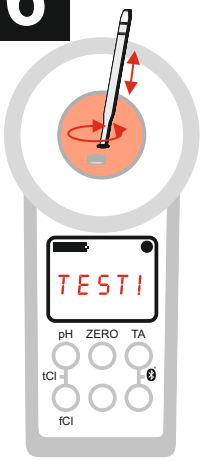

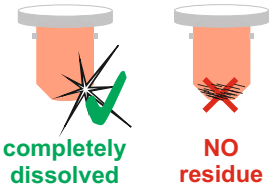

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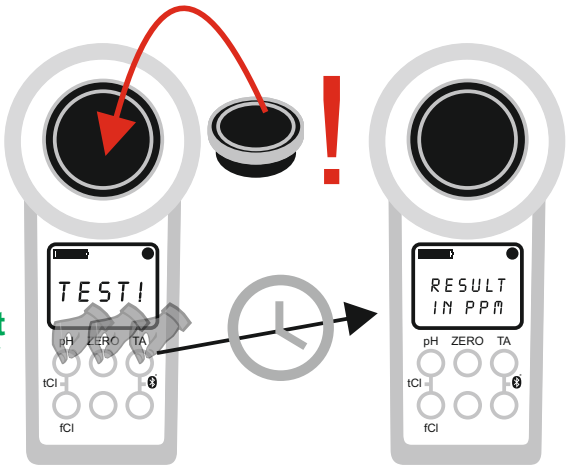


Shortcut for your test

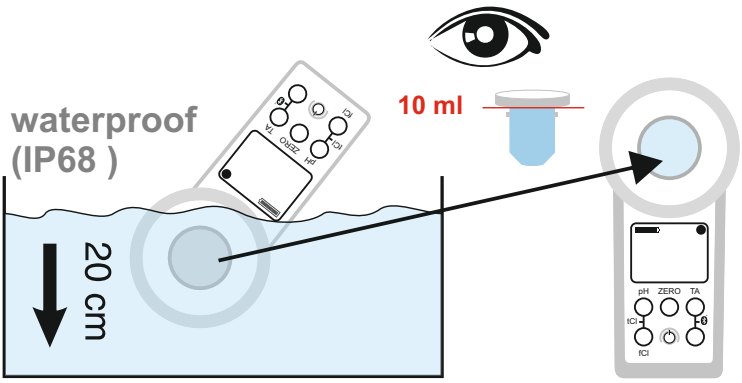
ppm = mg/l

8

9

For next test:
Clean & Take 10ml

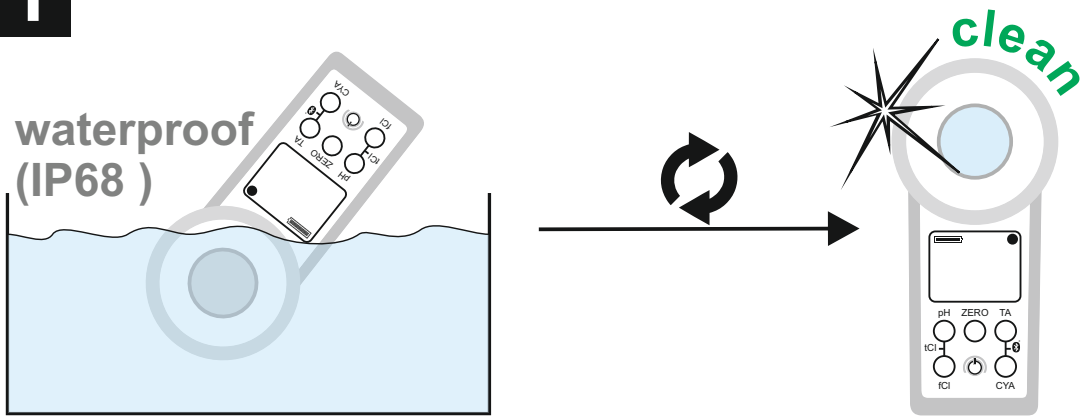
Then: back to step **5**



Repeat steps 5+6+7+8(+9) for further parameters

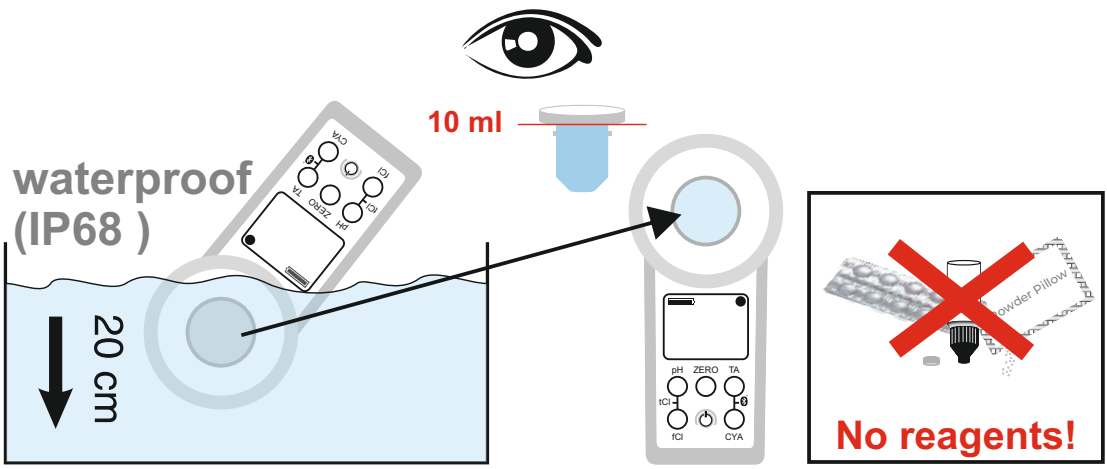
ZERO

1



2

take 10 ml water sample



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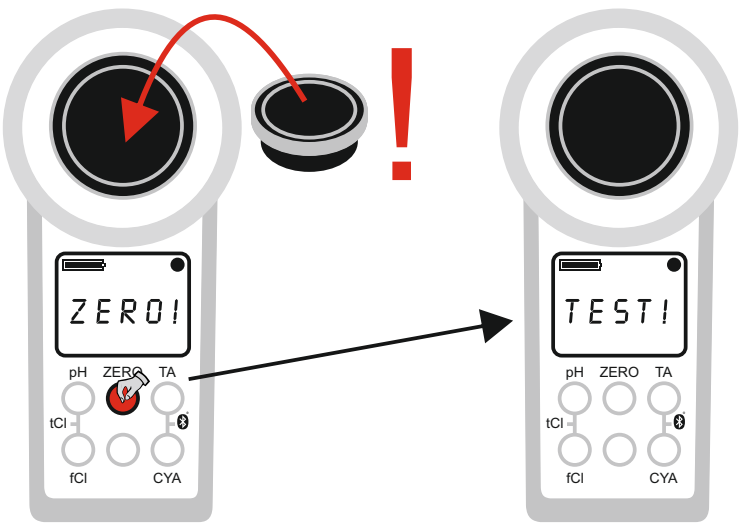


Nur 1 x pro Testreihe • Only 1 time per test batch
Une seule fois par lot de test

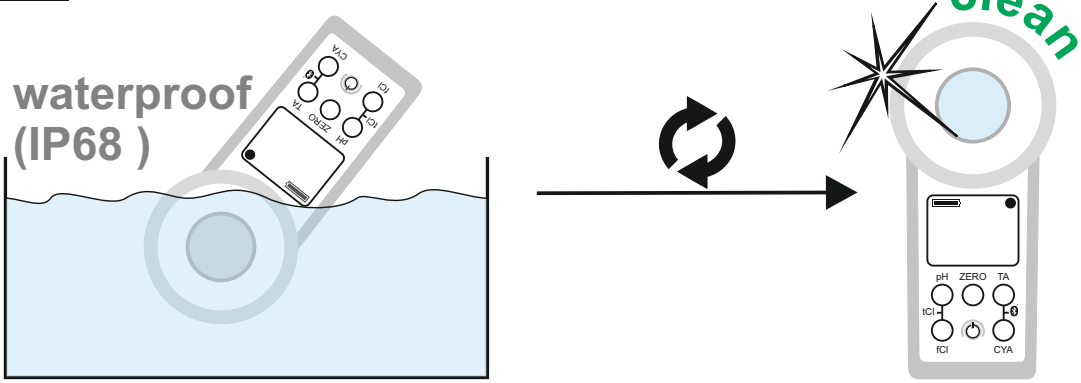
ZERO muss nur einmal pro Testreihe durchgeführt werden. Sobald erfolgt, können alle folgenden Messungen (z.B. pH, Chlor...) nacheinander und ohne erneutes ZERO vorgenommen werden. Falls gewünscht, kann trotzdem vor jeder Messung ZERO durchgeführt werden.
Once you performed ZERO, all measurements, like pH, chlorine... can be done one after each other without the need to do a ZERO again. The ZERO will be stored until the device will be switched off. Nevertheless, ZERO can be performed before each measurement, if wished.
Une fois que vous avez effectué ZERO, toutes les mesures, comme le pH, le chlore ... peuvent être effectuées l'une après l'autre sans avoir besoin de faire un ZERO à nouveau. Le ZERO sera stocké jusqu'à ce que l'appareil soit éteint. Néanmoins, un ZERO peut être effectué avant chaque mesure, si vous le désirez.

pH

6.50 – 8.40 pH

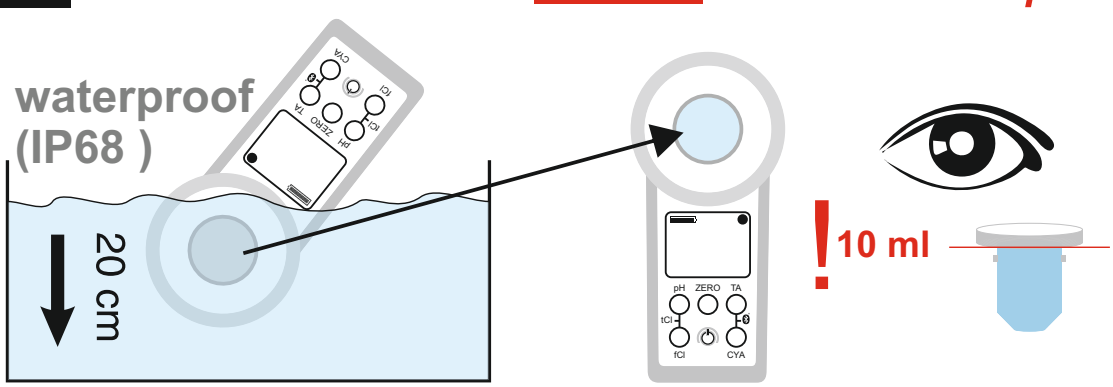
Phenol Red Photometer

1



2

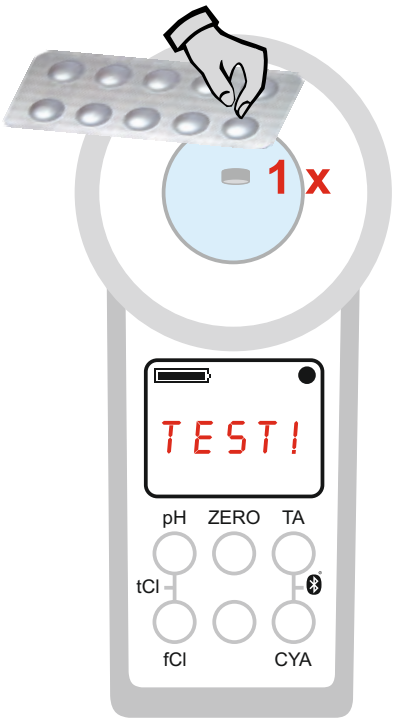
*take **10 ml** water sample*



pH

3

Phenol Red Photometer



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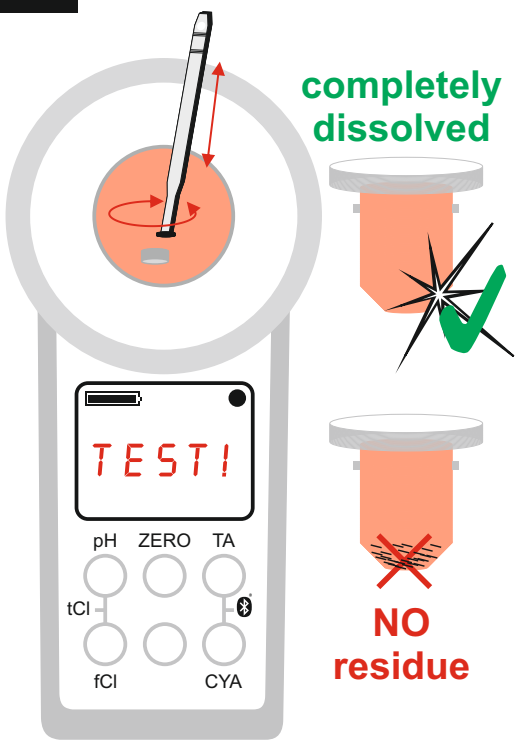

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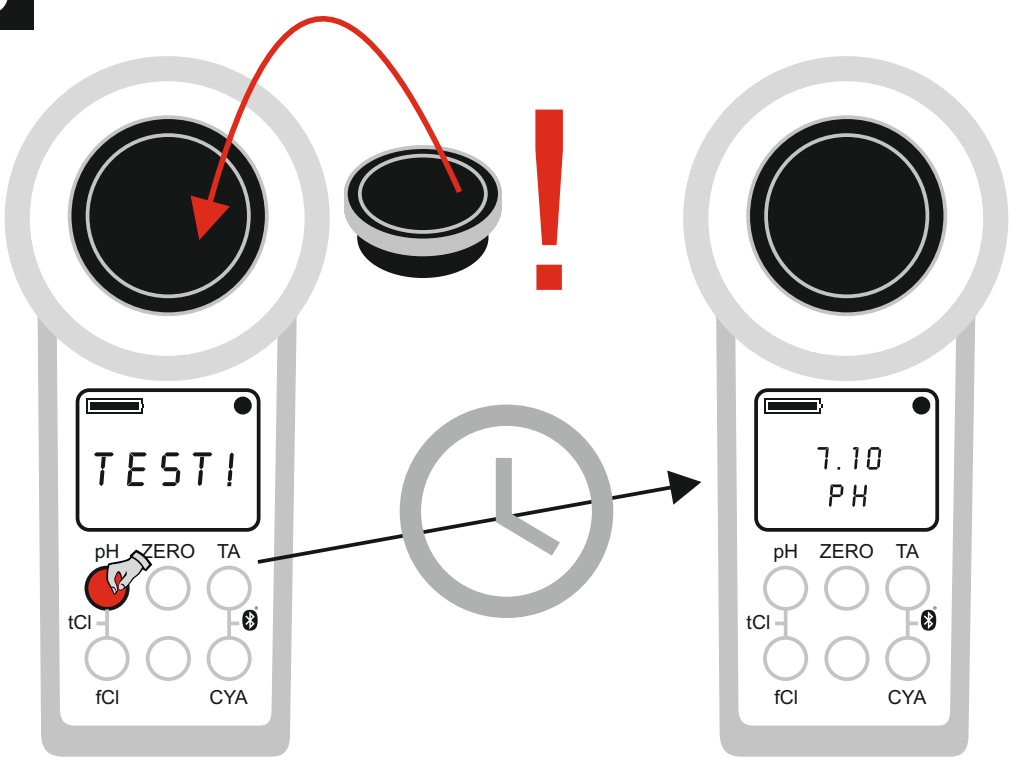


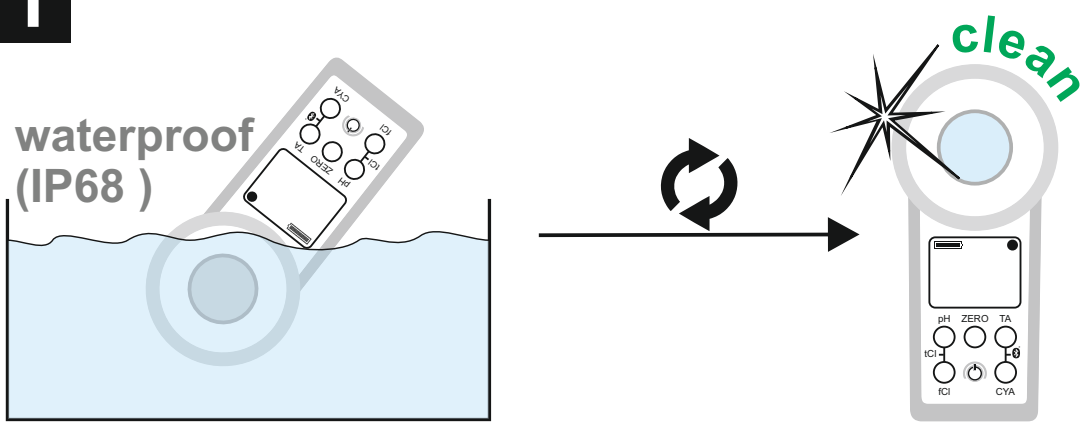
Der Alkalinitätwert muss mindestens 50 mg/l betragen, um eine korrekte pH Messung durchzuführen.
The Total Alkalinity value has to be minimum 50 mg/l to obtain a correct pH value.
La valeur totale de l'alcalinité doit être au minimum de 50 mg/l pour obtenir une valeur de pH correcte.

Chlor
Chlorine
Chlore

0.00 – 8.00 ppm (mg/l)

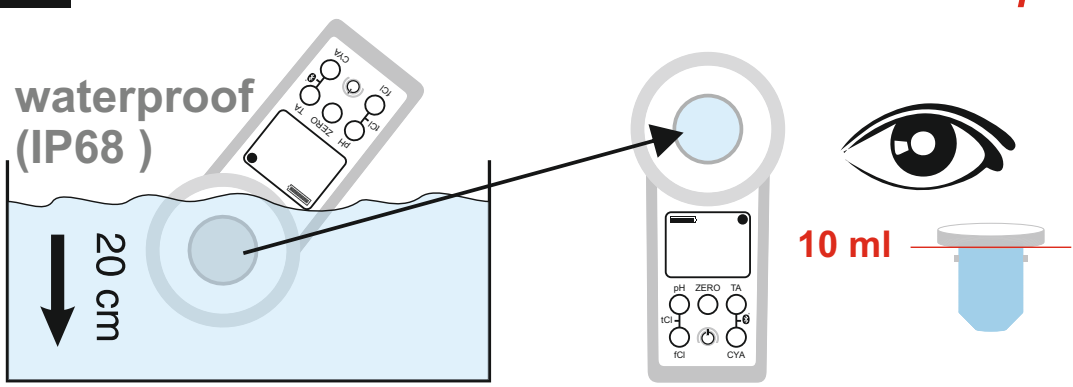
DPD N° 1 Photometer
DPD N° 3 Photometer

1



2

take 10 ml water sample

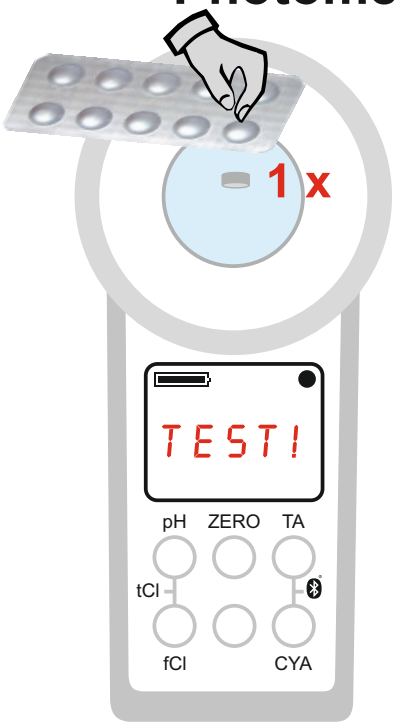


Nach / After / Après ZERO (p. 10)

Freies Chlor • Free Chlorine • Chlore libre

3

DPD N° 1 Photometer



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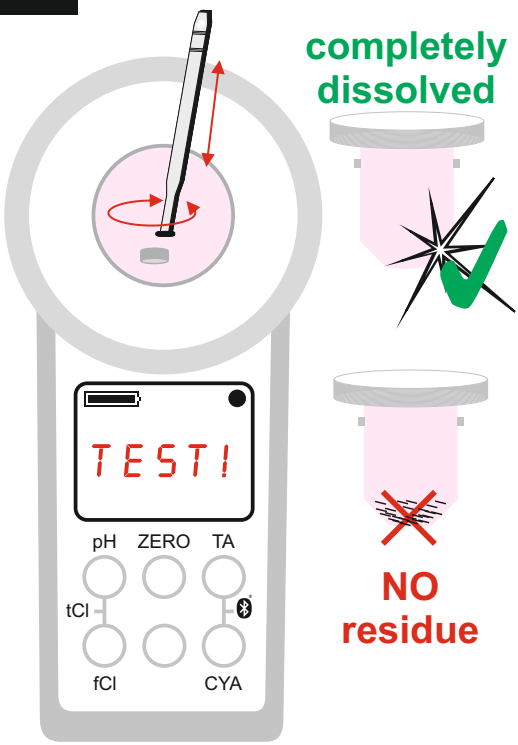

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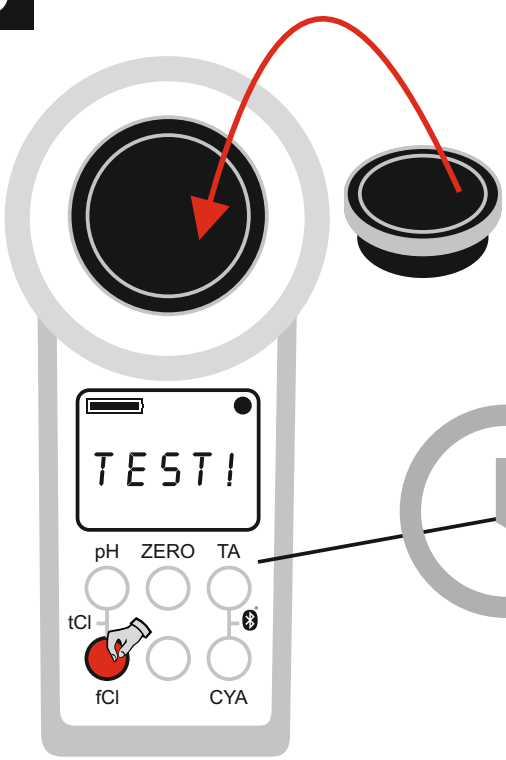

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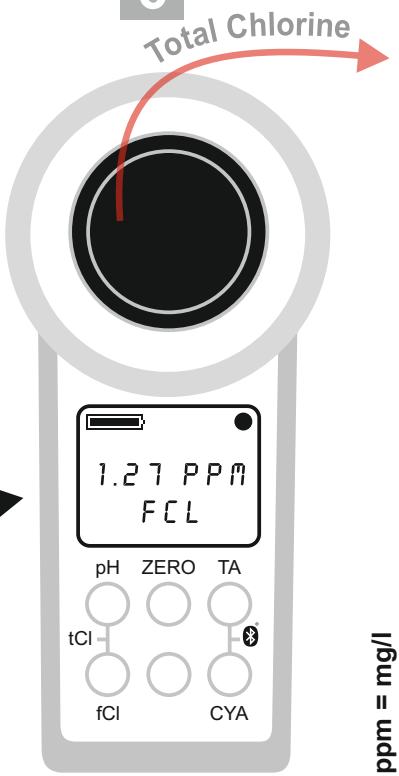
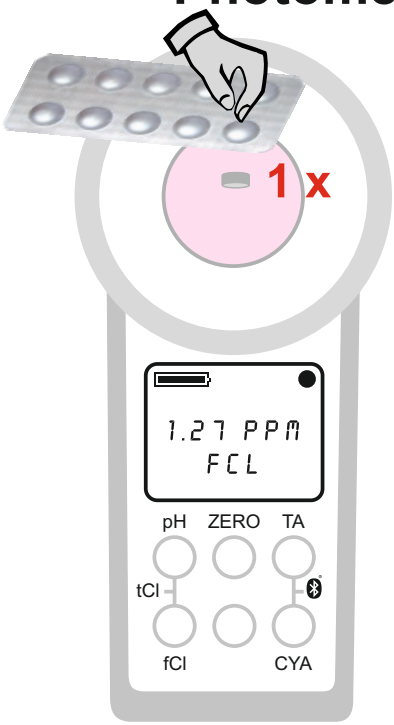


ppm = mg/l

Gesamt Chlor • Total Chlorine • Chlore total

6

DPD N° 3
Photometer



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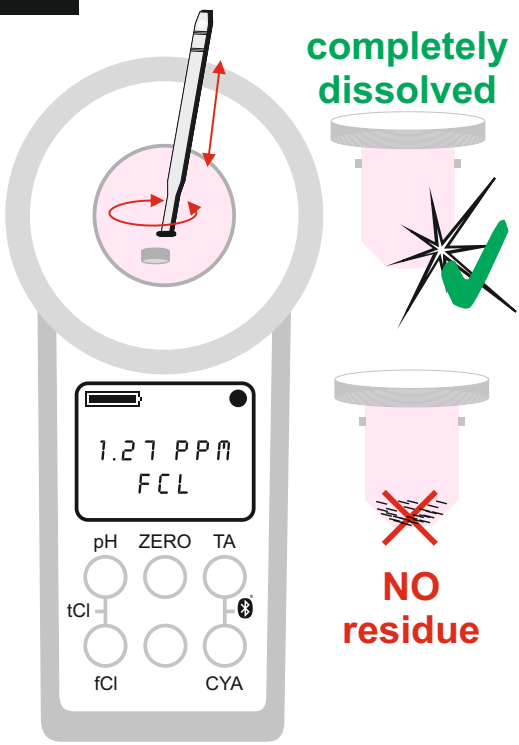

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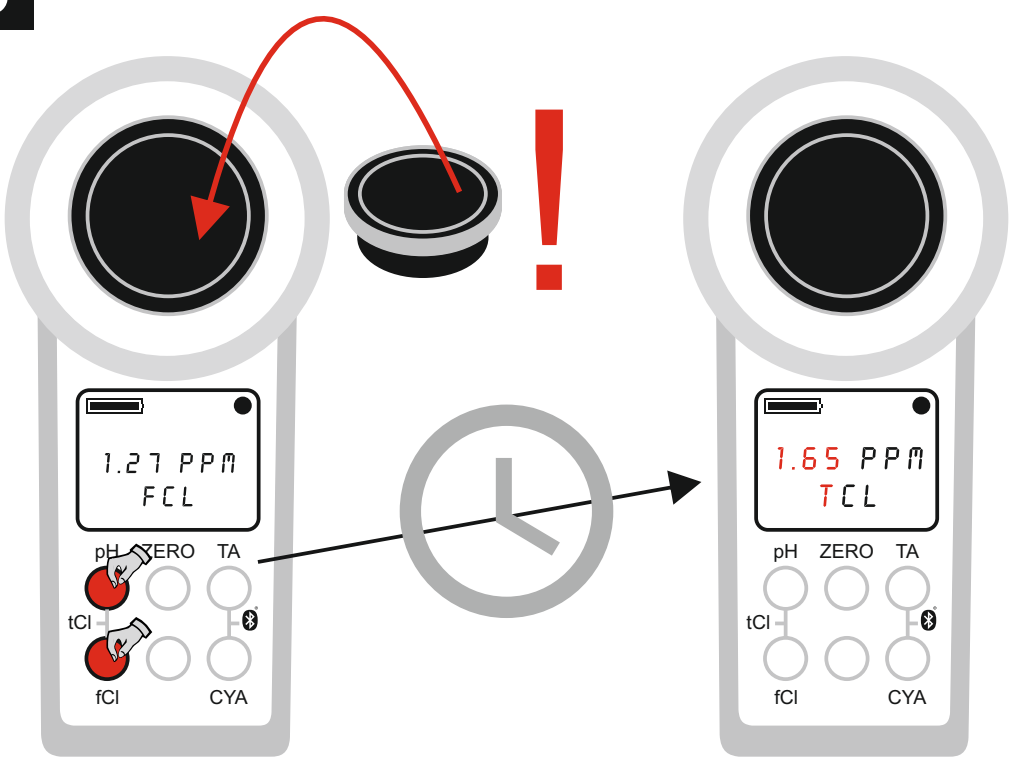


ppm = mg/l

Gesamt-Chlor wird direkt nach freiem Chlor gemessen, ohne die Küvette zu leeren. Die DPD 3 Tablette wird in die Küvette gegeben, in der bereits die DPD 1 Tablette gelöst ist. Das gebundene Chlor errechnet sich aus Gesamt-Chlor minus freiem Chlor. **Die Messung des freien Chlors muss innerhalb von 1 Minute nach Auflösen der Tablette erfolgen. Danach können die Messwerte kontinuierlich steigen**

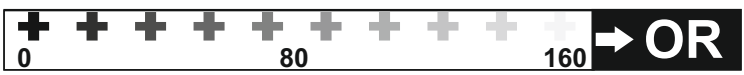
Total Chlorine is measured directly after free Chlorine without emptying the cuvette. The DPD 3 tablet is added to the sample water which already contains the DPD 1 tablet (dissolved). Combined Chlorine is calculated as Total Chlorine minus free Chlorine. **The free chlorine measurement must be taken within 1 minute after dissolving the tablet. After that, the measured values may increase continuously.**

Le chlore total est mesuré directement après le chlore libre sans vidanger la cuvette. La pastille DPD 3 est ajoutée à l'eau échantillon qui contient déjà la tablette DPD 1 (dissoute). Le chlore combiné est calculé comme le chlore total moins le chlore libre. **La mesure du chlore libre doit être effectuée dans la minute qui suit la dissolution du comprimé. Après cela, les valeurs mesurées peuvent augmenter de façon continue.**

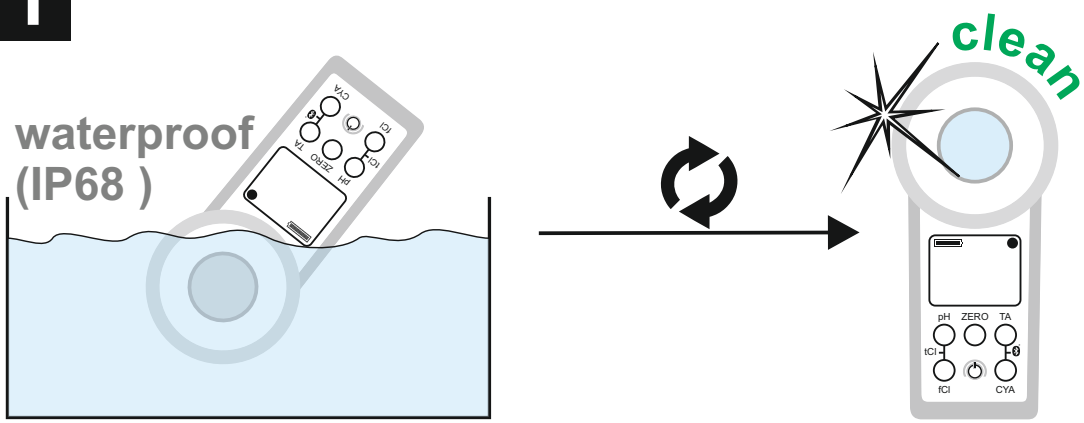
Cyanursäure
Cyanuric Acid
Acide cyanurique

0 – 160 ppm (mg/l)

CYA-Test Photometer

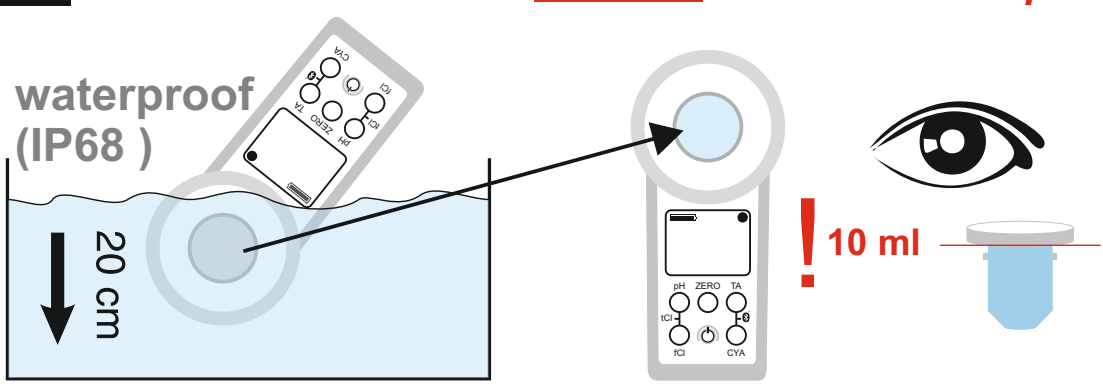


1



2

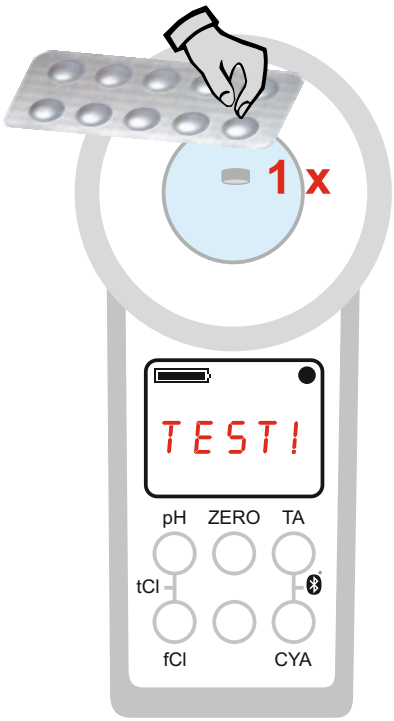
*take **10 ml** water sample*



Cyanursäure • Cyanuric Acid
Acide cyanurique

3

CYA-Test Photometer



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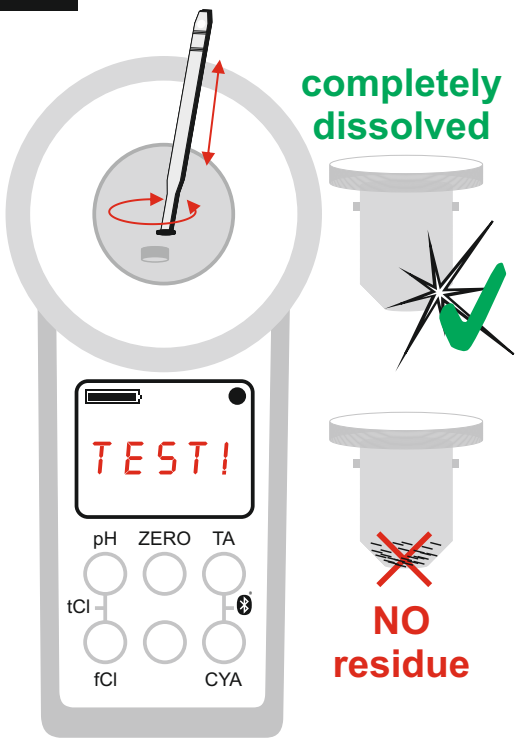

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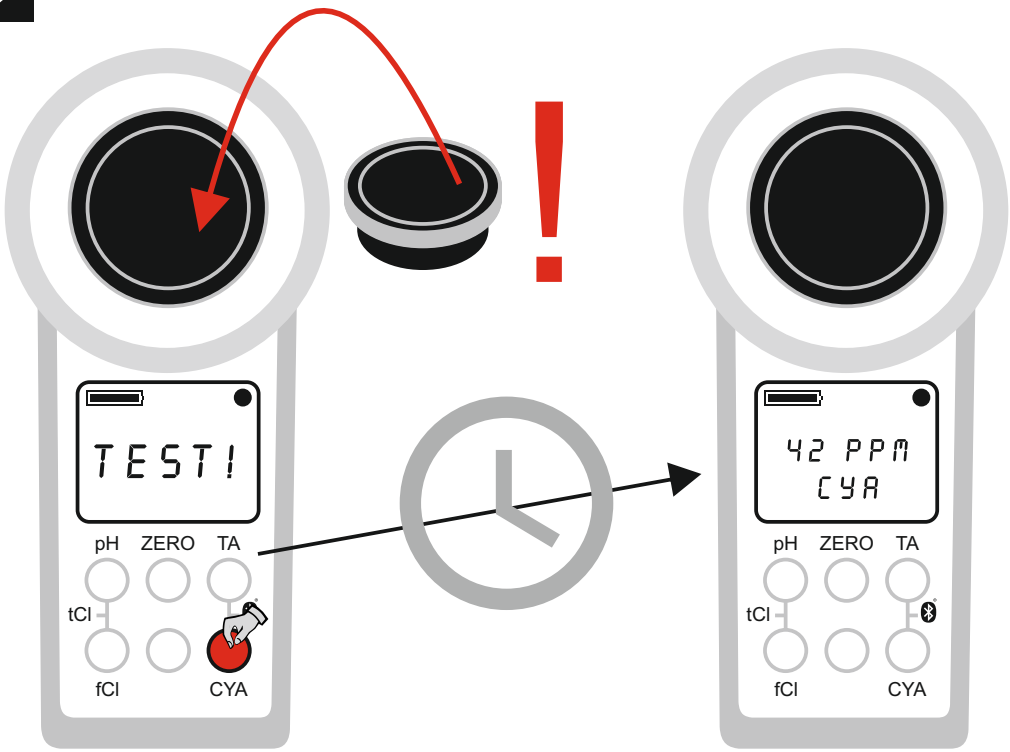


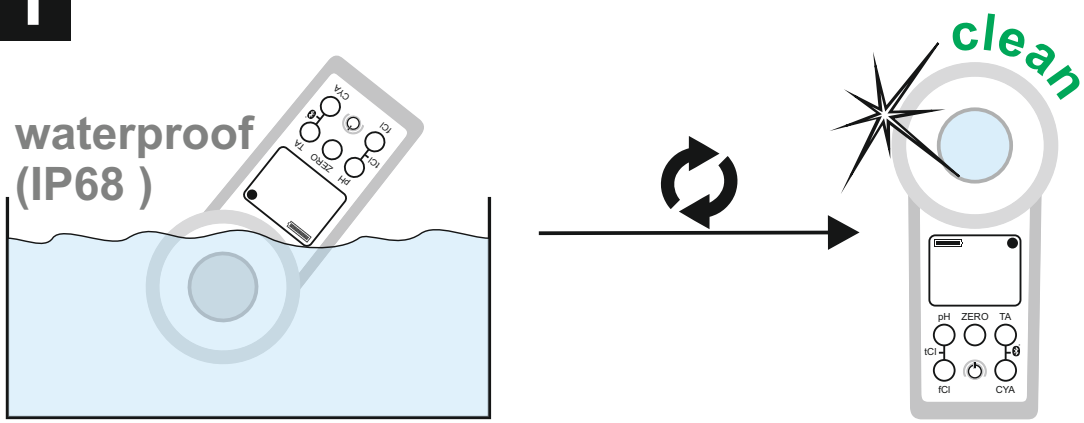
ppm = mg/l

Alkalinität
Alkalinity
Alcalinité

0 – 200 ppm (mg/l) $CaCO_3$

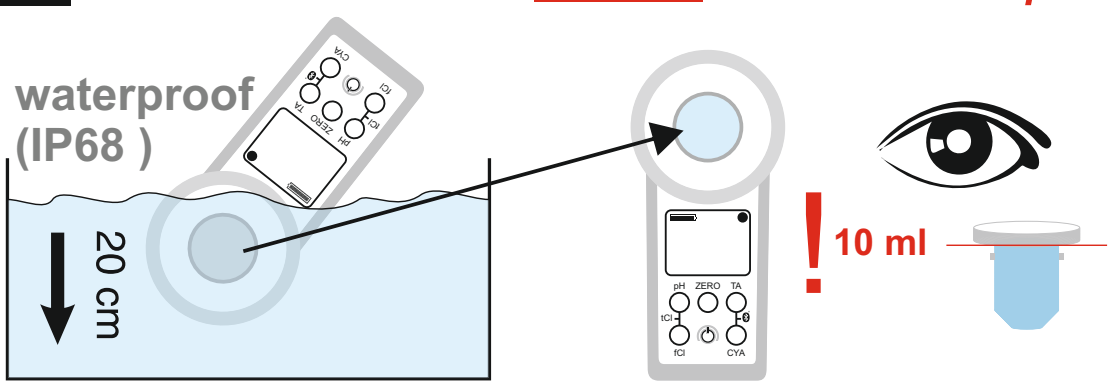
Alkalinity-M Photometer

1



2

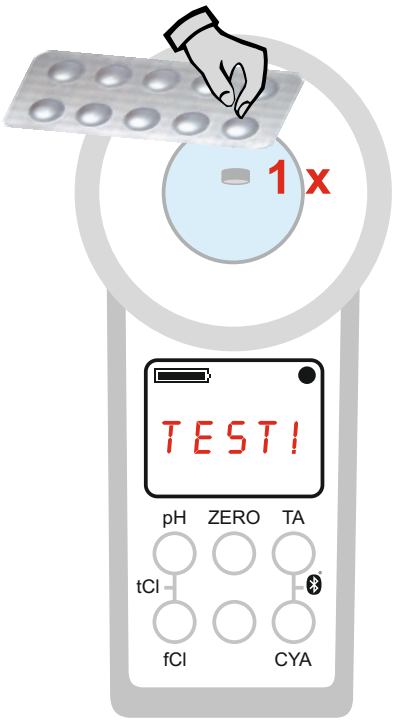
*take **10 ml** water sample*



Alkalinität • Alkalinity • Alcalinité

3

Alkalinity-M Photometer



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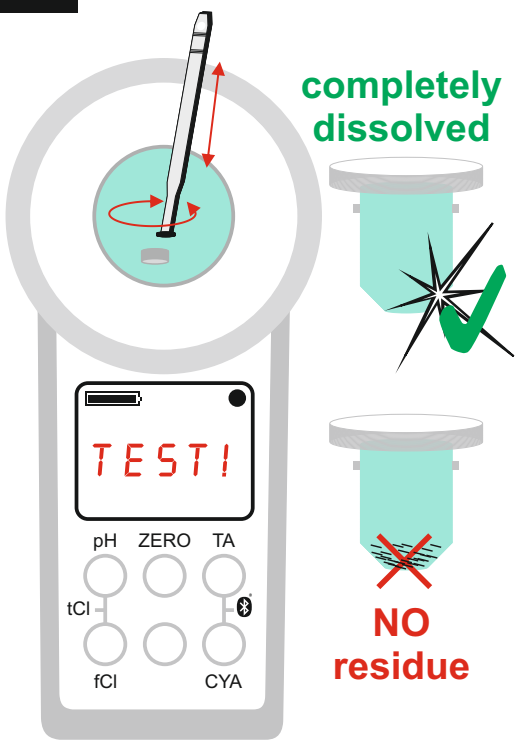

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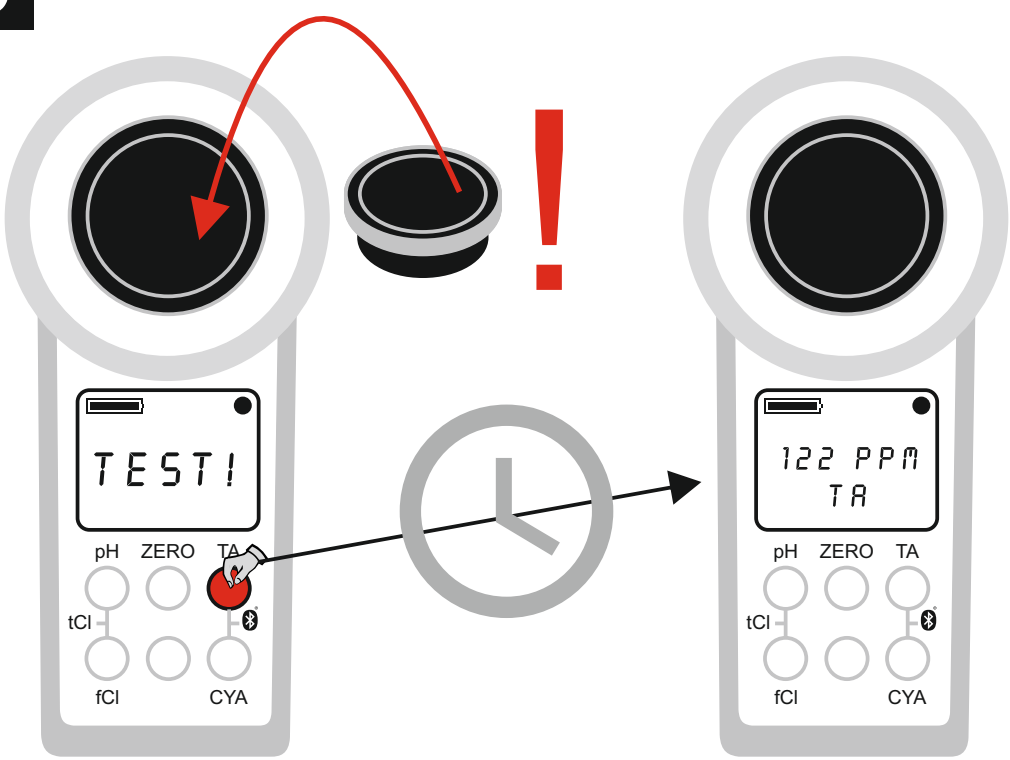


ppm = mg/l

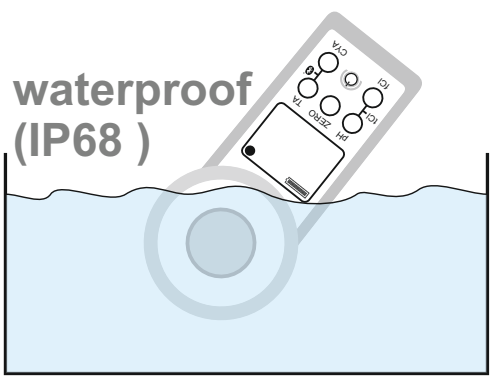
Aktivsauerstoff
Active Oxygen
Oxygène actif
(MPS)

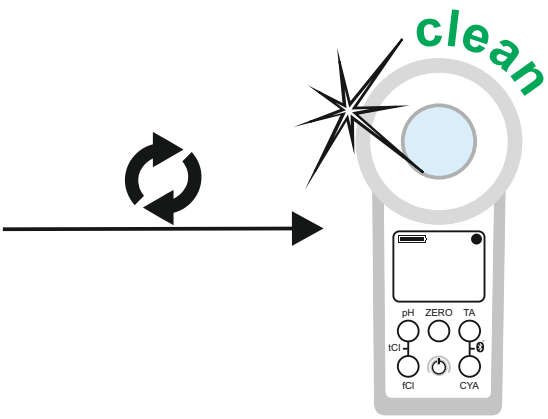
0.0 – 30.0 ppm (mg/l)

*DPD N° 4 Photometer**

1

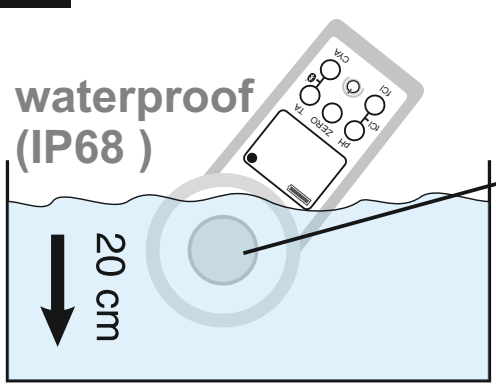
**not part of standard equipment*

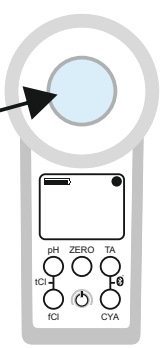


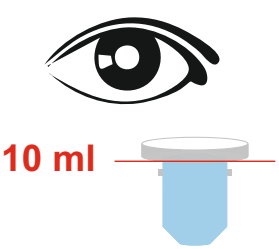


2

take 10 ml water sample



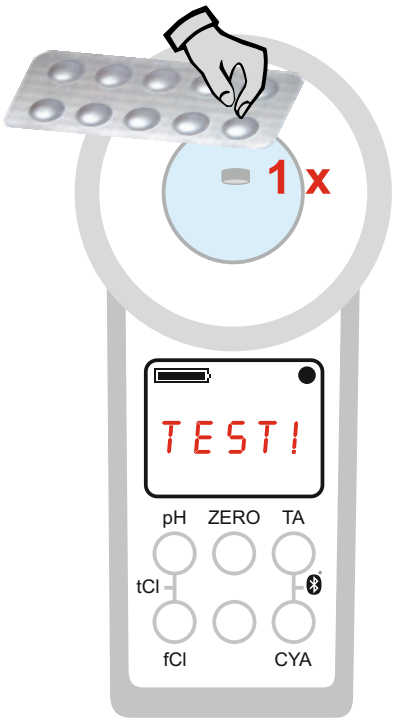




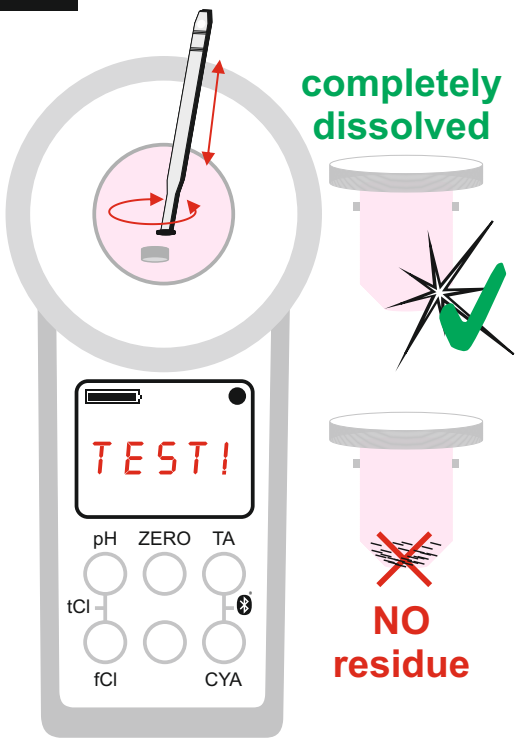
Aktivsauerstoff • Active Oxygen
Oxygène actif

3

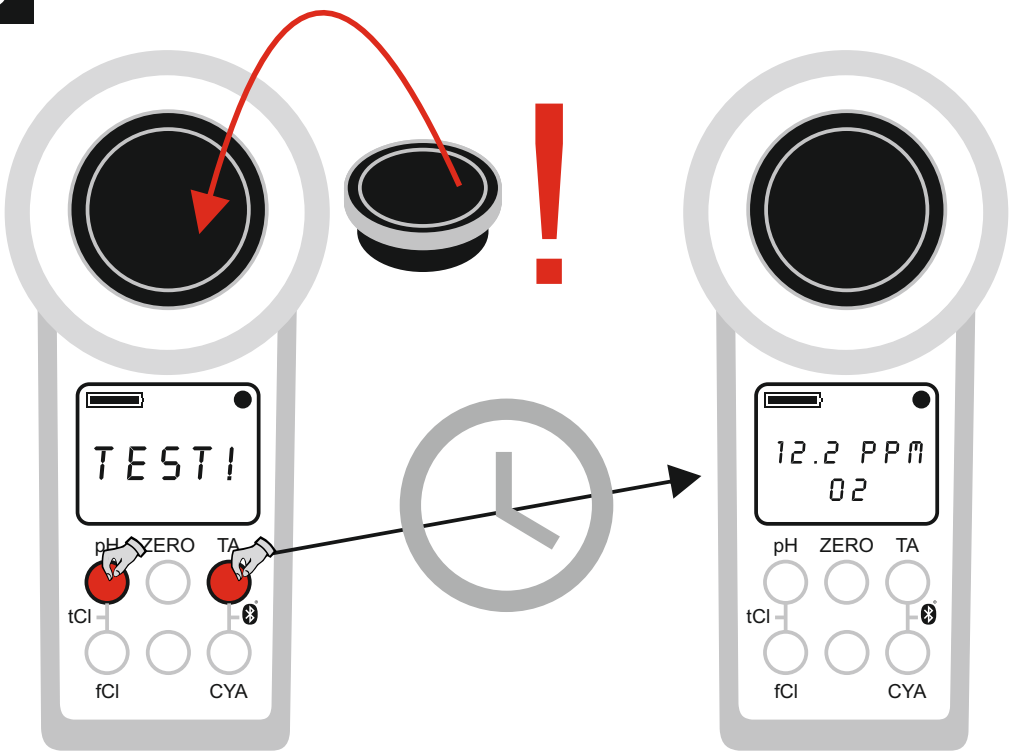
DPD N° 4 Photometer*



4



5



ppm = mg/l

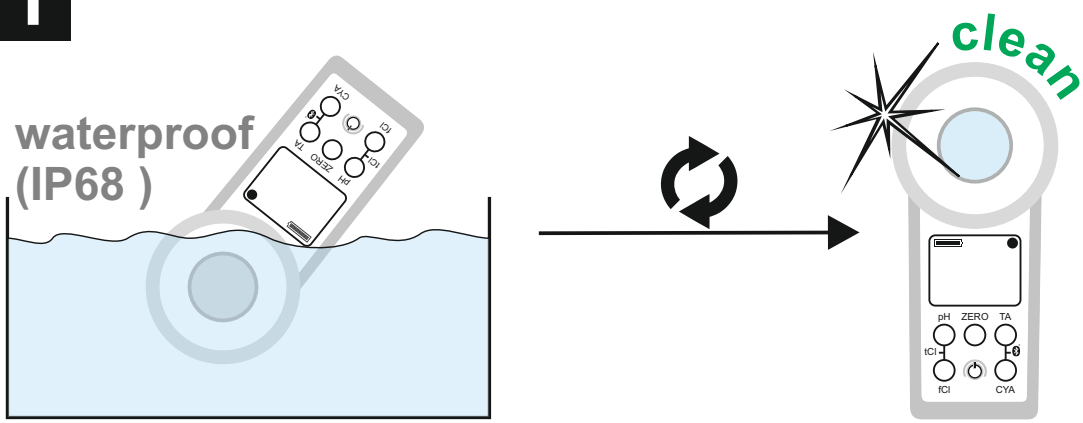
Chlordioxid
Chlorine Dioxide
Dioxyde de Chlore

0.00 – 11.40 ppm (mg/l)

DPD N° 1 Photometer
*Glycine**

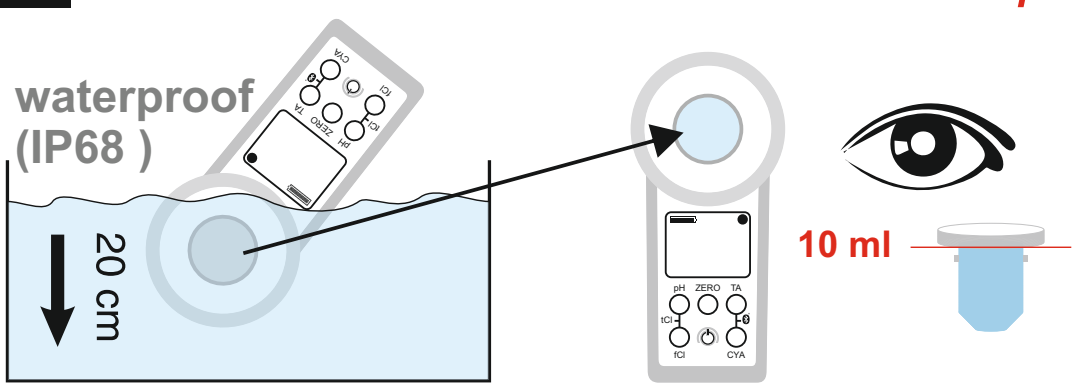
1

**not part of standard equipment*



2

take 10 ml water sample



Chlordioxid • Chlorine Dioxide Dioxyde de Chlore

Nur wenn die Wasserprobe neben Chlordioxid auch Chlor enthält (beide Desinfektionsmittel wurden benutzt), muss das Verfahren "A" angewendet und die Glycine Tablette verwendet werden. Falls die Probe nur Chlordioxid und kein Chlor enthält, bitte dem Verfahren "B" folgen.

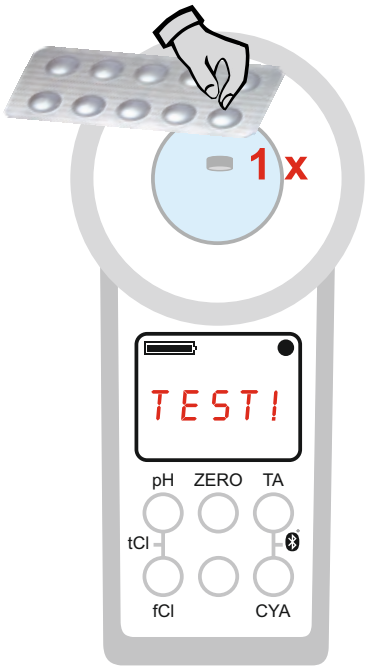
Only if your water sample does contain Chlorine next to Chlorine Dioxide (both disinfectants used), the following procedure "A" needs to be followed and Glycine* reagent needs to be used. Otherwise (only Chlorine Dioxide present), please follow procedure "B".

Seulement si votre échantillon d'eau contient du chlore avec du dioxyde de chlore (les deux désinfectants utilisés), la procédure suivante «A» doit être suivie et le réactif Glycine * doit être utilisé. Sinon (seul le dioxyde de chlore présent sans Chlore), suivez la procédure «B».

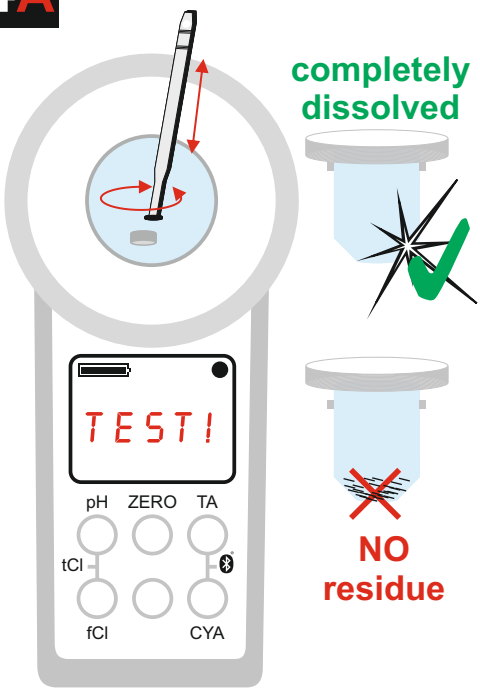
Chlordioxid • Chlorine Dioxide Dioxyde de Chlore

A Mit Chlor / With Chlorine / Avec du Chlore

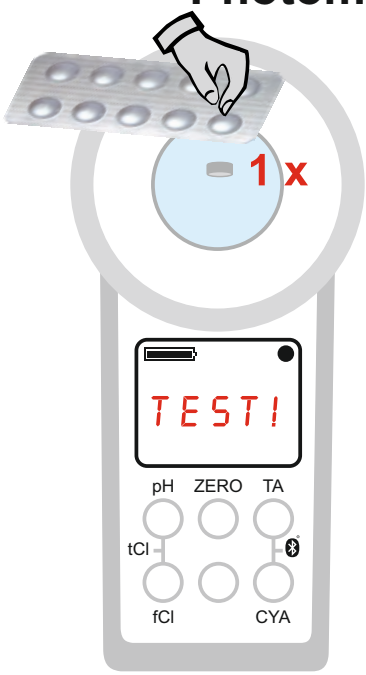
3A Glycine*



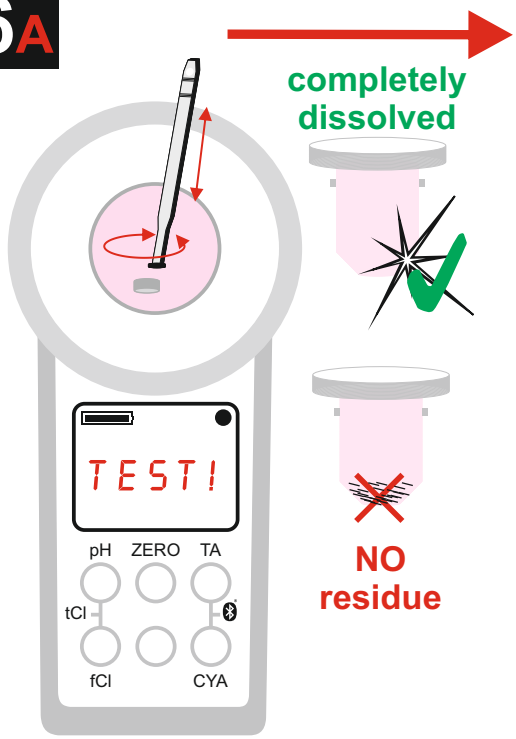
4A



5A DPD N° 1 Photometer



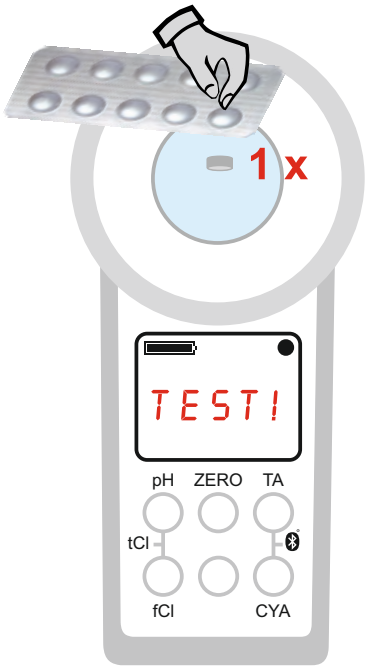
6A



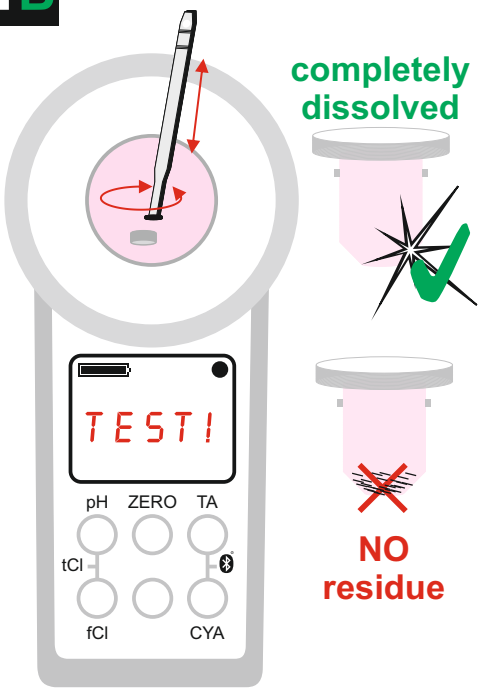
Chlordioxid • Chlorine Dioxide Dioxyde de Chlore

B Ohne Chlor / Without Chlorine / Sans Chlore

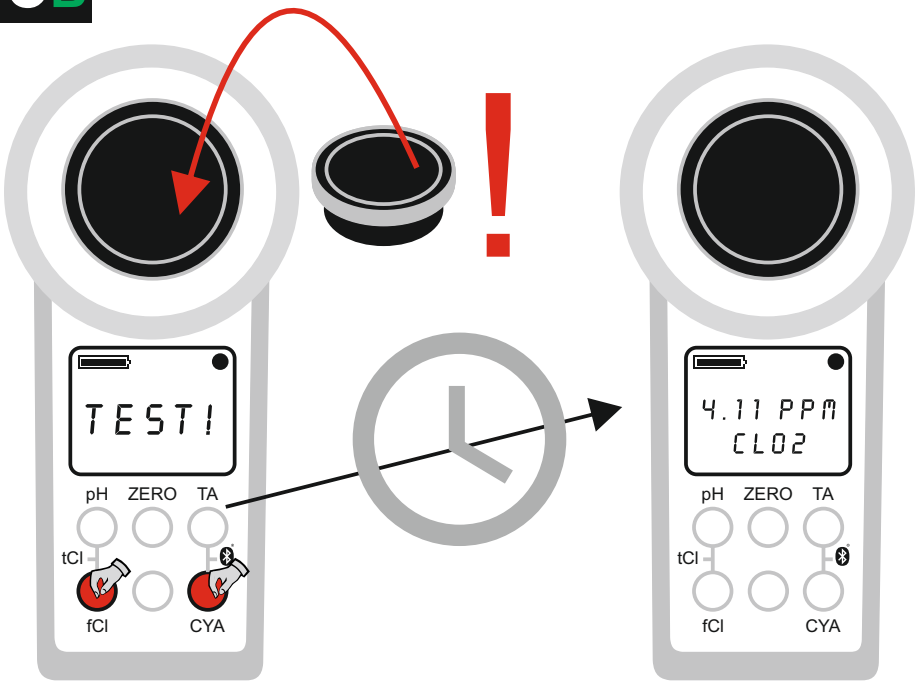
3B DPD N° 1 Photometer



4B



7A/5B



ppm = mg/l

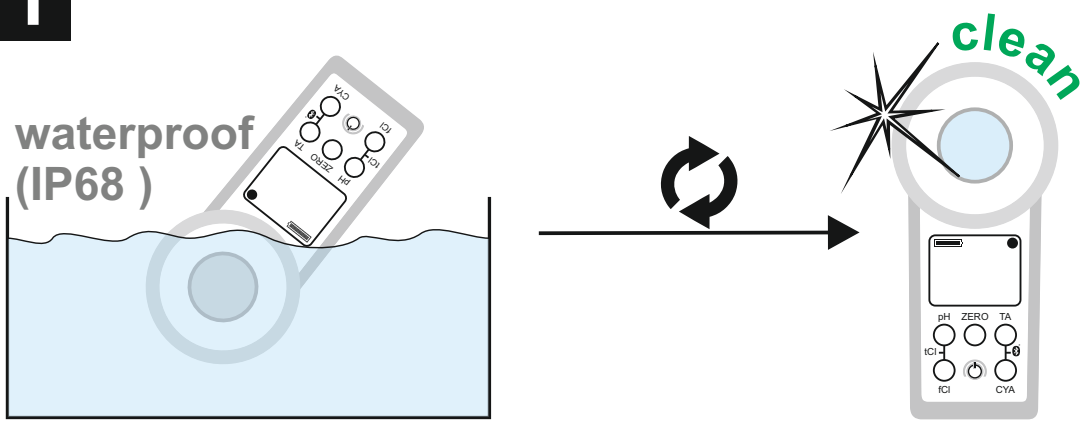
Brom
Bromine
Brome

0.0 – 13.5 ppm (mg/l)

DPD N° 1 Photometer
*Glycine**

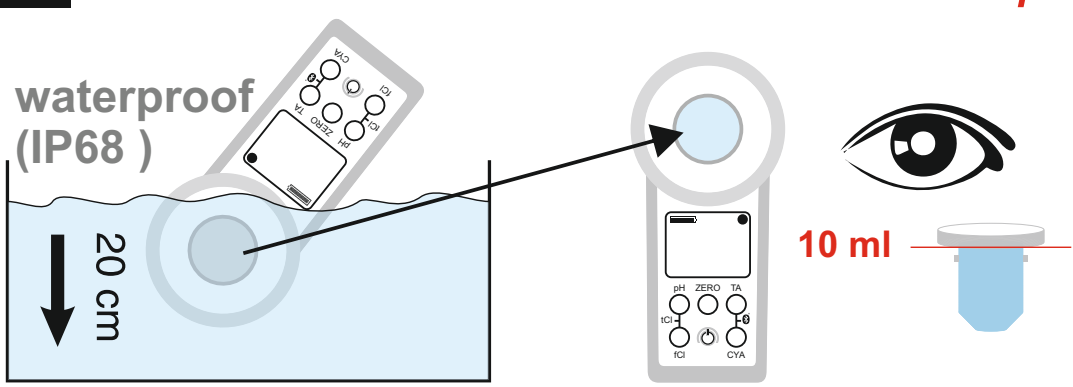
*not part of standard equipment

1



2

take 10 ml water sample



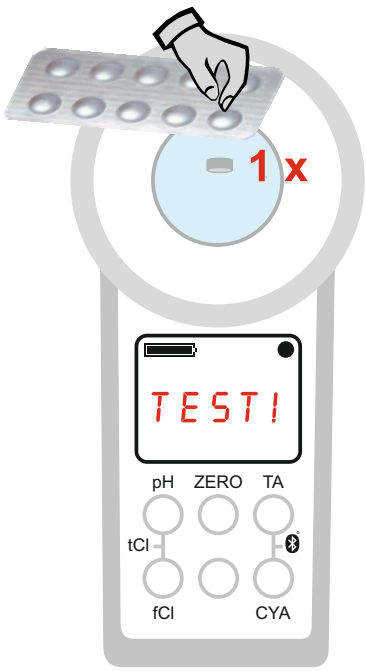
Brom • Bromine • Brome

Nur wenn die Wasserprobe neben Brom auch Chlor enthält (beide Desinfektionsmittel wurden benutzt), muss das Verfahren "A" angewendet und die Glycine Tablette verwendet werden. Falls die Probe nur Brom und kein Chlor enthält, bitte dem Verfahren "B" folgen.
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"
Seulement si votre échantillon d'eau contient du chlore avec du Brome (les deux désinfectants utilisés), la procédure suivante «A» doit être suivie et le réactif Glycine * doit être utilisé. Sinon (seul le Brome présent sans Chlore), suivez la procédure «B».

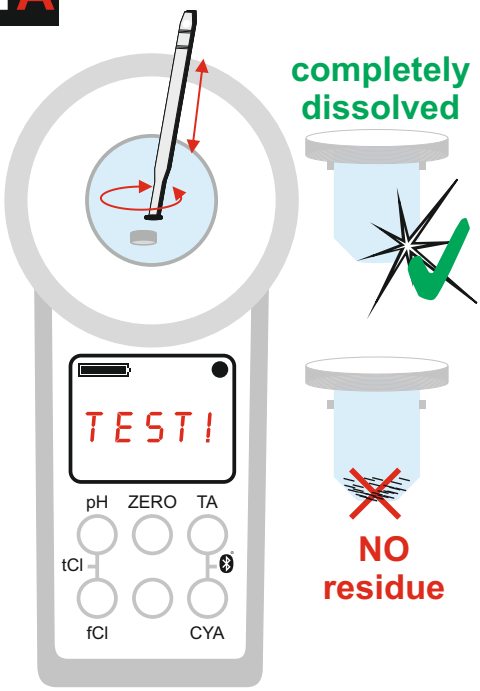
Brom • Bromine • Brome

A Mit Chlor / With Chlorine / Avec du Chlore

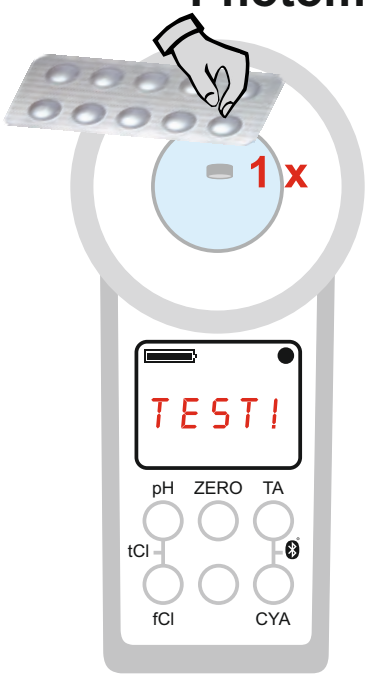
3A Glycine*



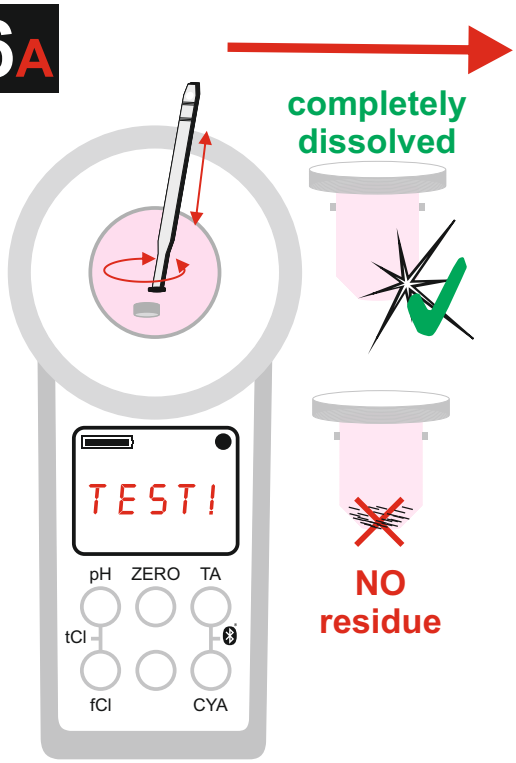
4A



5A DPD N° 1 Photometer



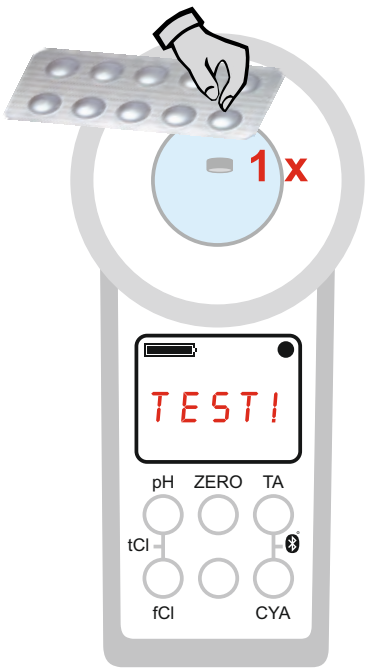
6A



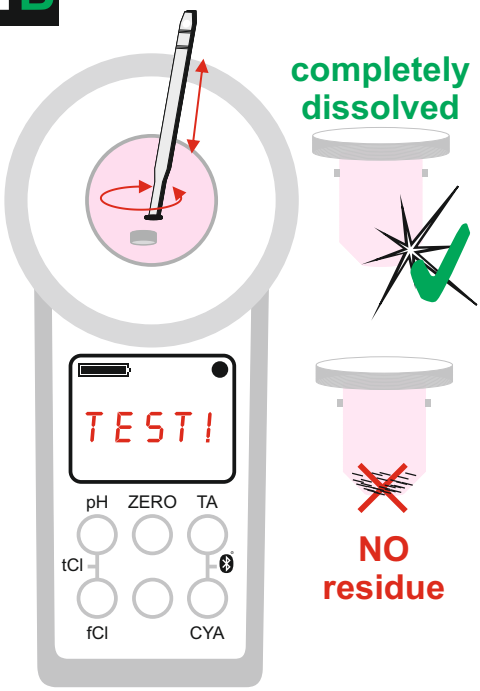
Brom • Bromine • Brome

B Ohne Chlor / Without Chlorine / Sans Chlore

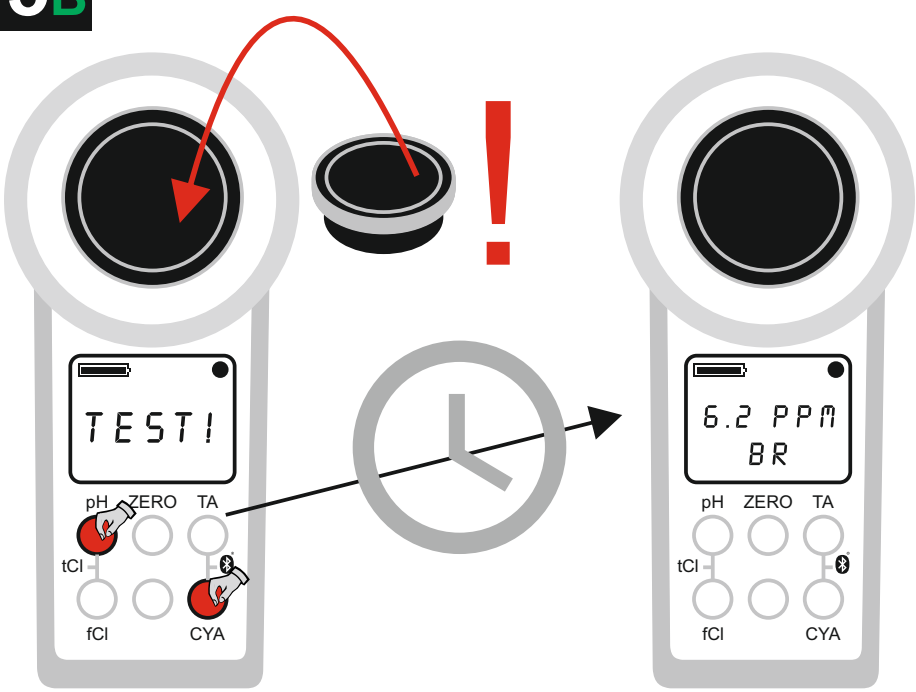
3B DPD N° 1 Photometer



4B



7A/5B



ppm = mg/l

Ozon
Ozone
Ozono

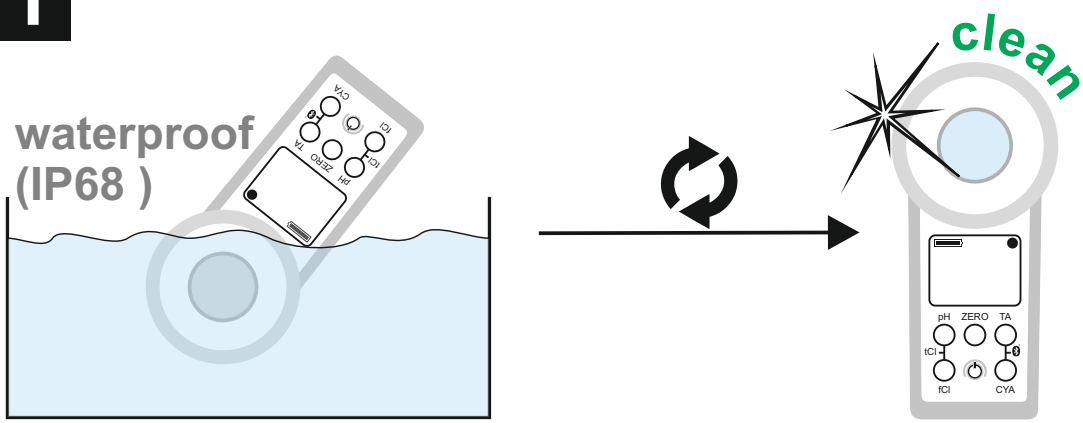
0.00 – 4.00 ppm (mg/l)

DPD N° 1 Photometer
DPD N° 3 Photometer
*Glycine**

0.00 2.00 4.00 ➡ OR

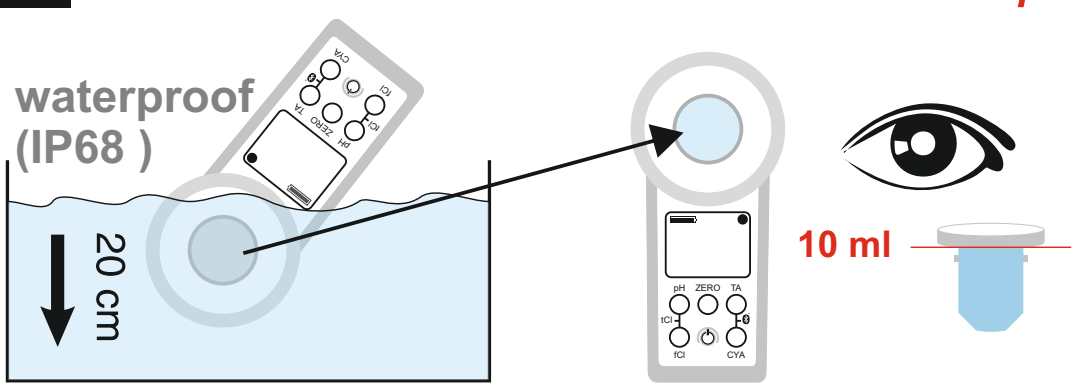
*not part of standard equipment

1



2

take 10 ml water sample



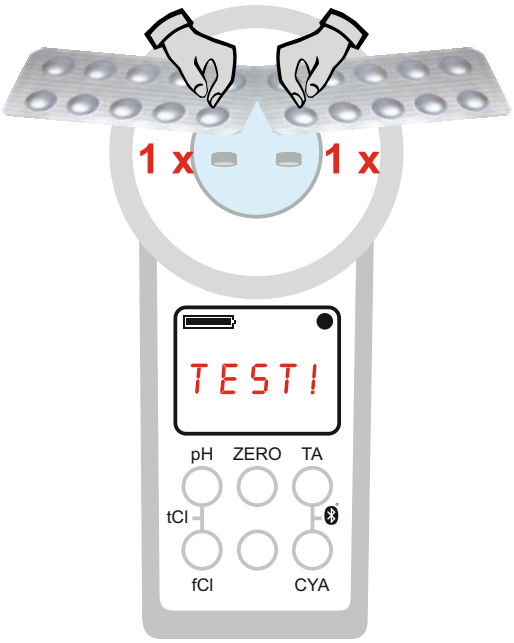
Ozon • Ozone

Nur wenn die Wasserprobe neben Ozon auch Chlor enthält (beide Desinfektionsmittel wurden benutzt), muss das Verfahren "B" angewendet und die Glycine* Tablette verwendet werden. Falls die Probe nur Ozon und kein Chlor enthält, bitte dem Verfahren "A" folgen.
Only if your water sample does contain Ozone next to Chlorine (both disinfectants used), the following procedure "B" needs to be followed and Glycine* reagent needs to be used. Otherwise (only Ozone present), please follow procedure "A".
Seulement si votre échantillon d'eau contient du chlore avec de l‘ Ozone (les deux désinfectants utilisés), la procédure suivante «B» doit être suivie et le réactif Glycine* doit être utilisé. Sinon (seul Ozone présent sans Chlore), suivez la procédure «A».

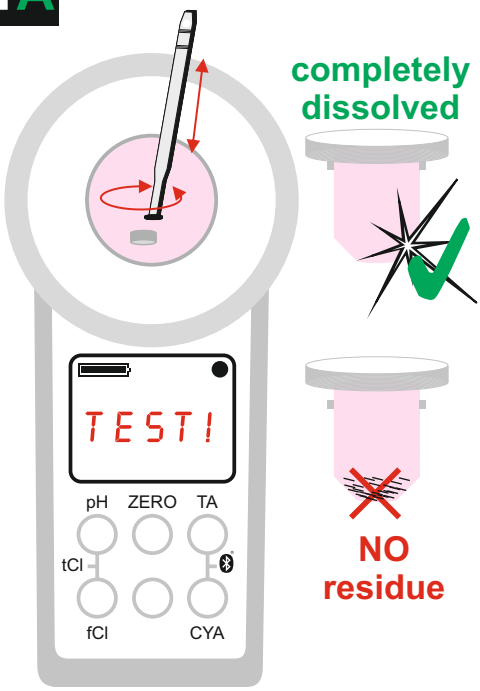
Ozon • Ozone

A Ohne Chlor / Without Chlorine / Sans Chlore

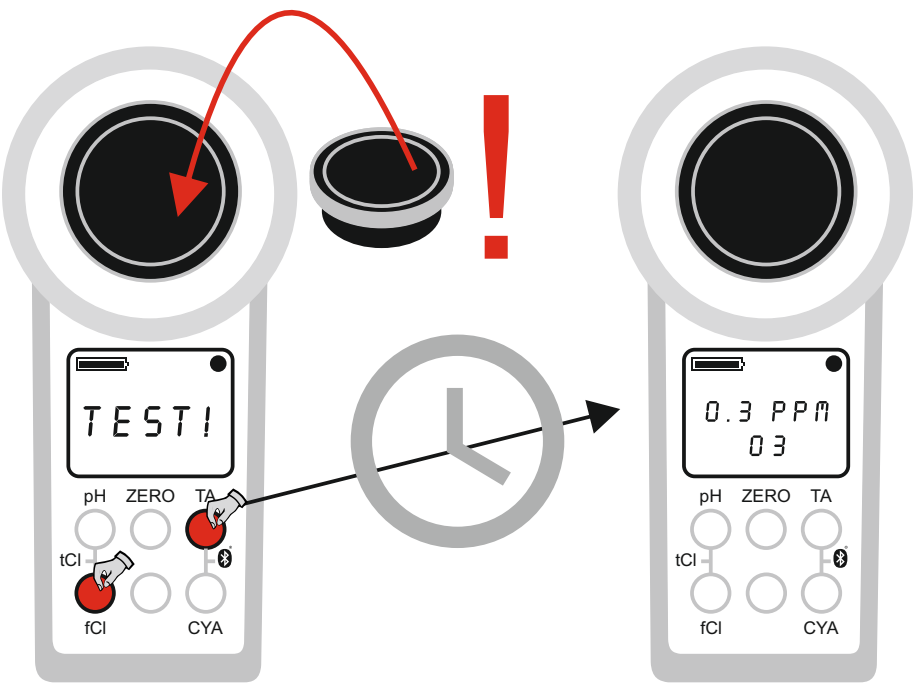
3A DPD N°1 & DPD N°3 (Photometer)



4A



5A

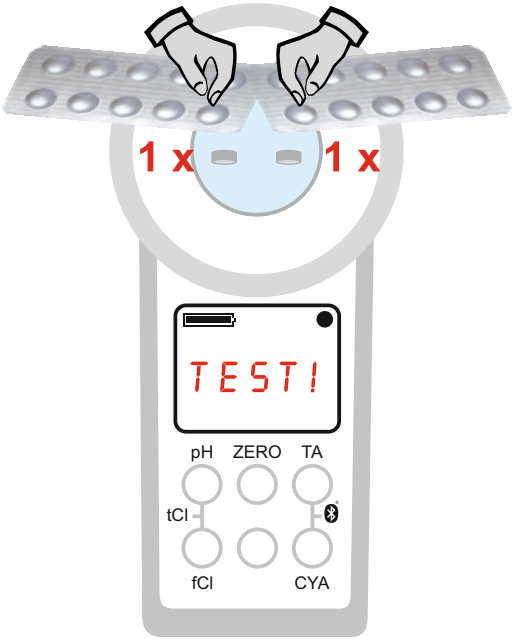


ppm = mg/l

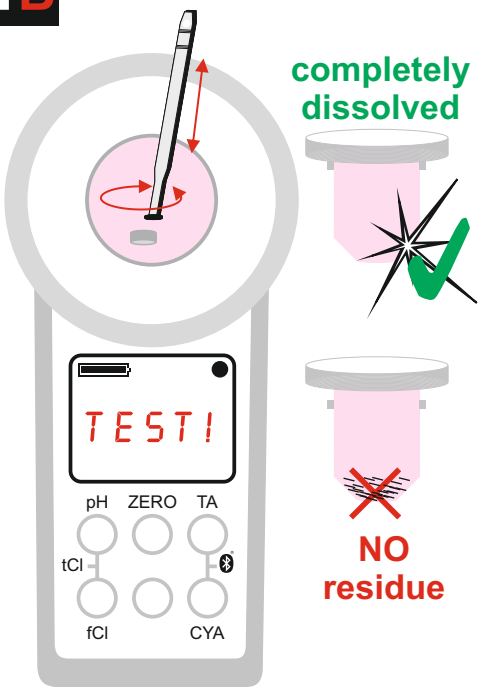
Ozon • Ozone

B Mit Chlor / With Chlorine / Avec du Chlore

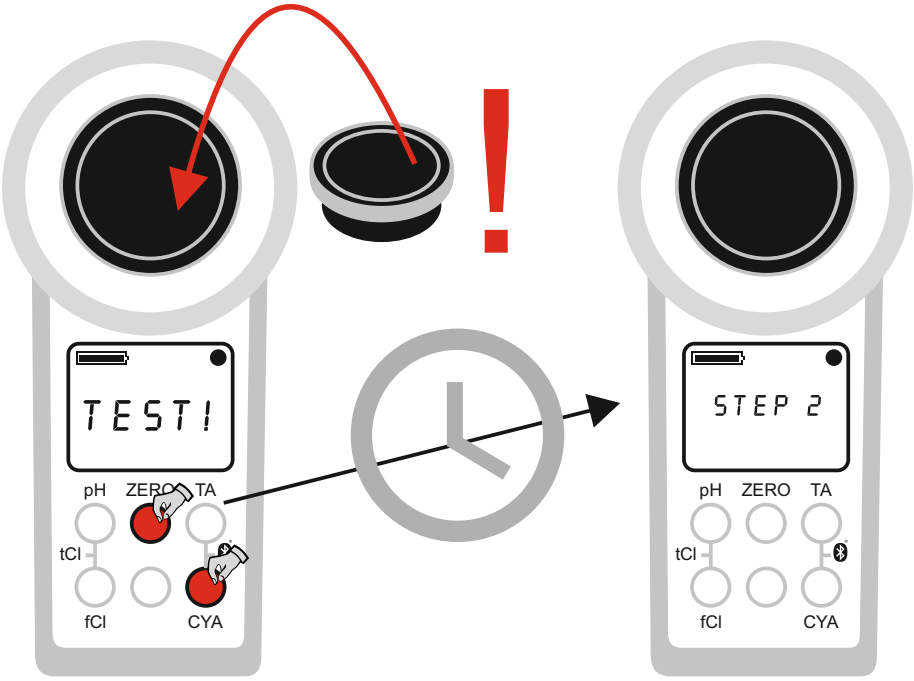
3B DPD N°1 & DPD N°3 (Photometer)



4B

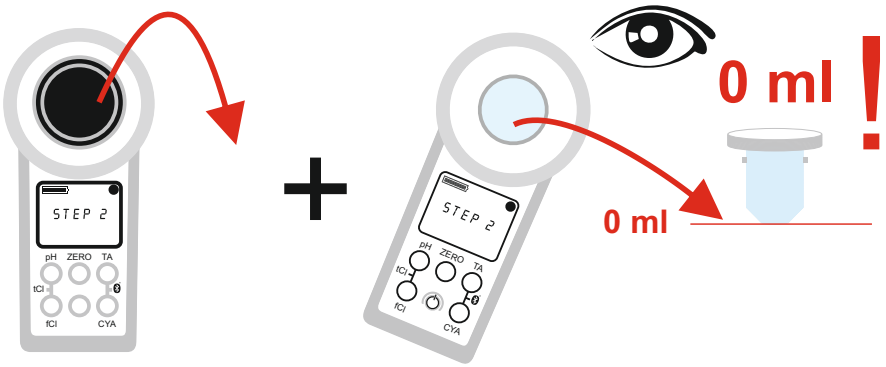


5B

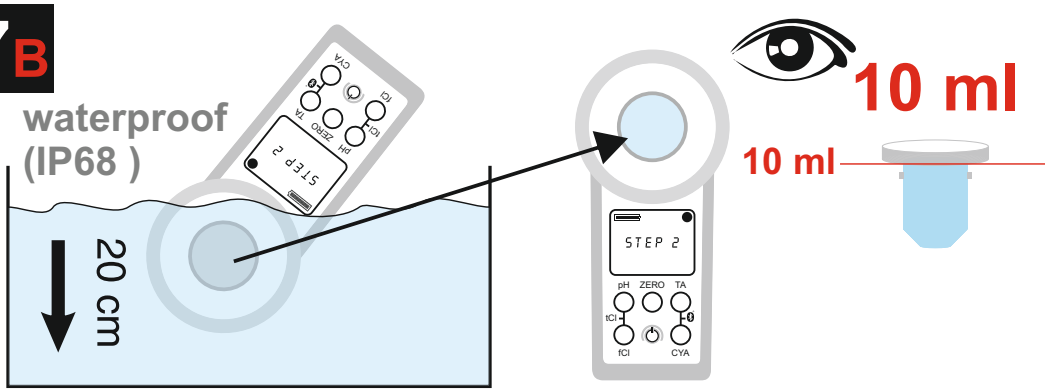


B Mit Chlor / With Chlorine / Avec du Chlore

6B

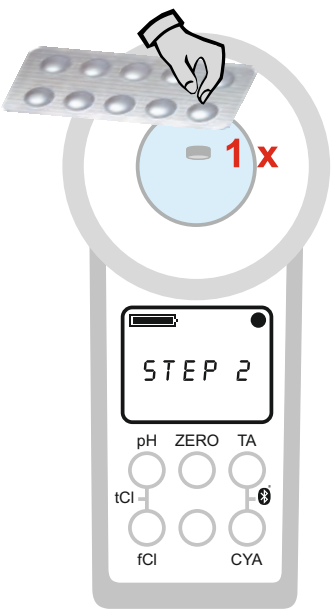


7B

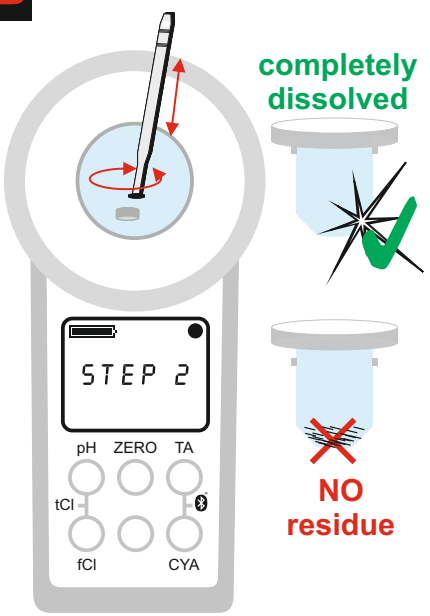


8B

Glycine*



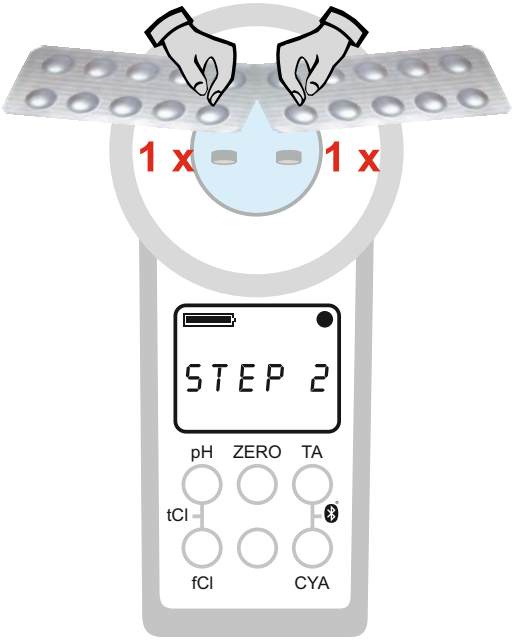
9B



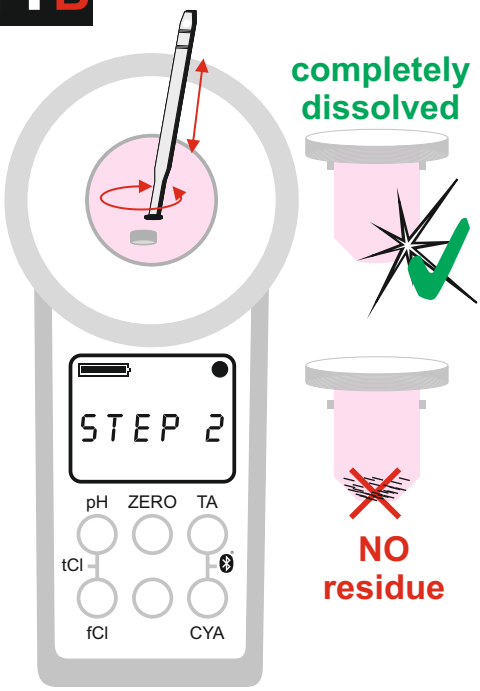
Ozon • Ozone

B Mit Chlor / With Chlorine / Avec du Chlore

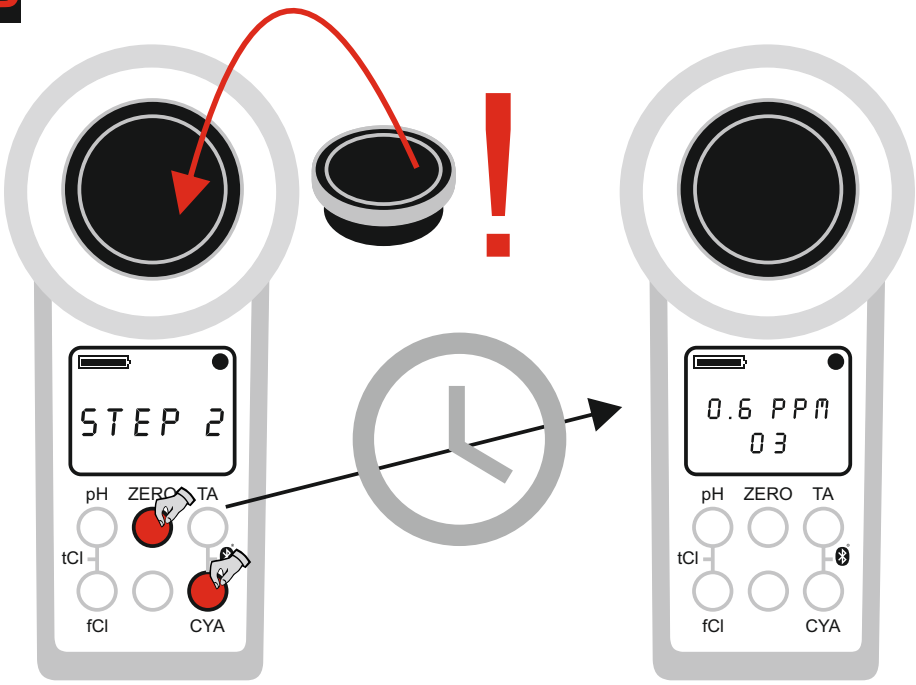
10B DPD N°1 & DPD N°3 (Photometer)



11B



12B



ppm = mg/l

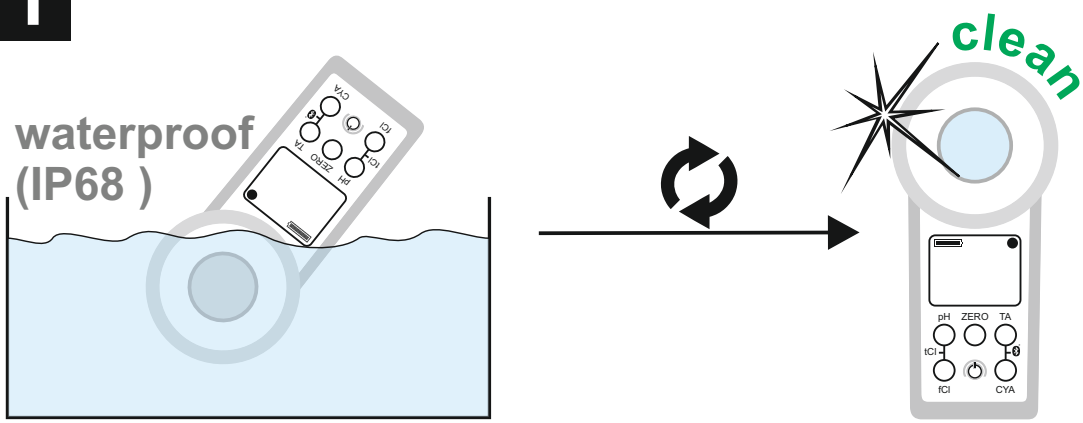
Wasserstoffperoxid
Hydrogen Peroxide
Peroxyde d'Hydrogène
(LR)

0.00 – 2.90 ppm (mg/l)

*Hyd. Peroxide LR Photometer**

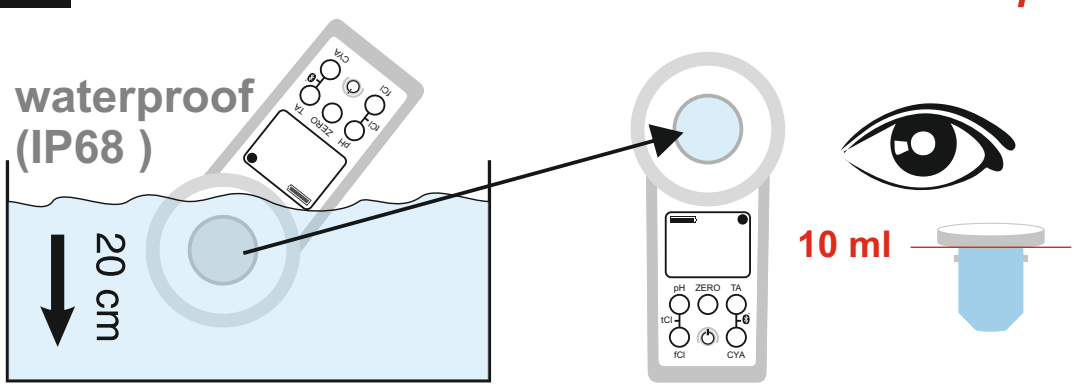
*not part of standard equipment

1



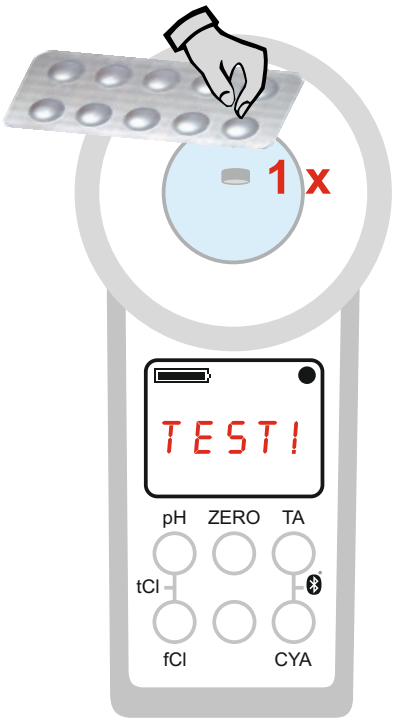
2

take 10 ml water sample

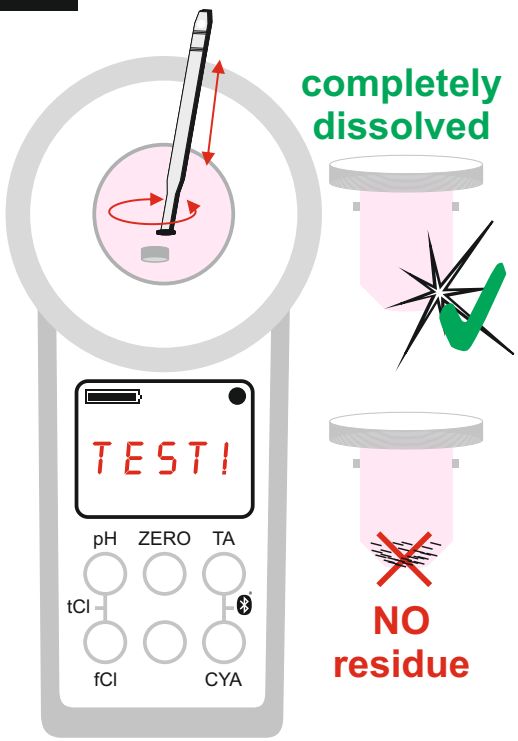


Wasserstoffperox. • Hydrogen Peroxide Peroxyde d'Hydrogène

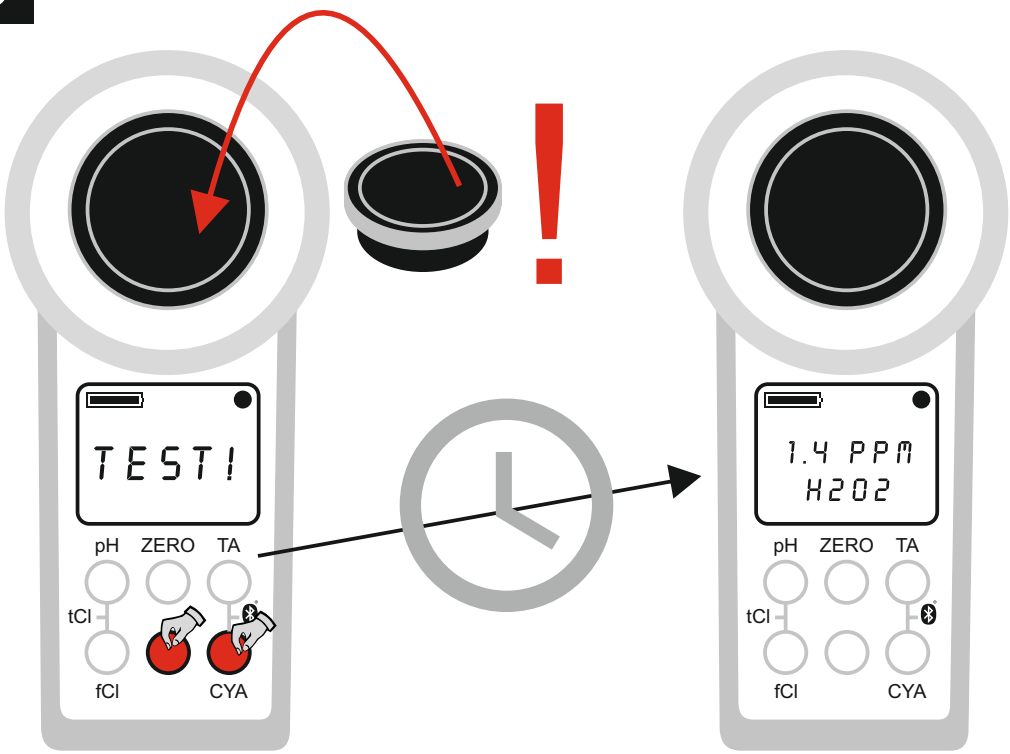
3 Hyd. Peroxide LR Photometer*



4



5



ppm = mg/l

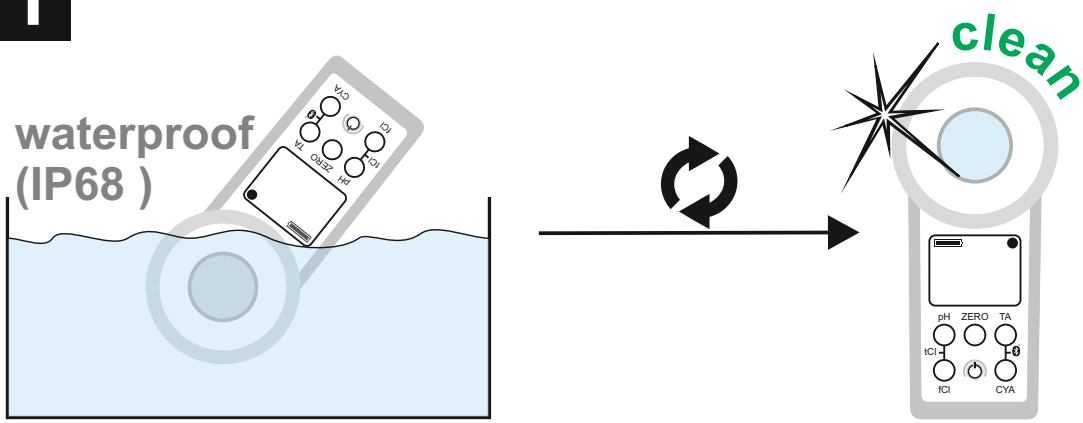
Wasserstoffperoxid
Hydrogen Peroxide
Peroxyde d'Hydrogène
(HR)

0 – 200 ppm (mg/l)

*Hyd. Peroxide HR Phot.**
*Acidifying PT**

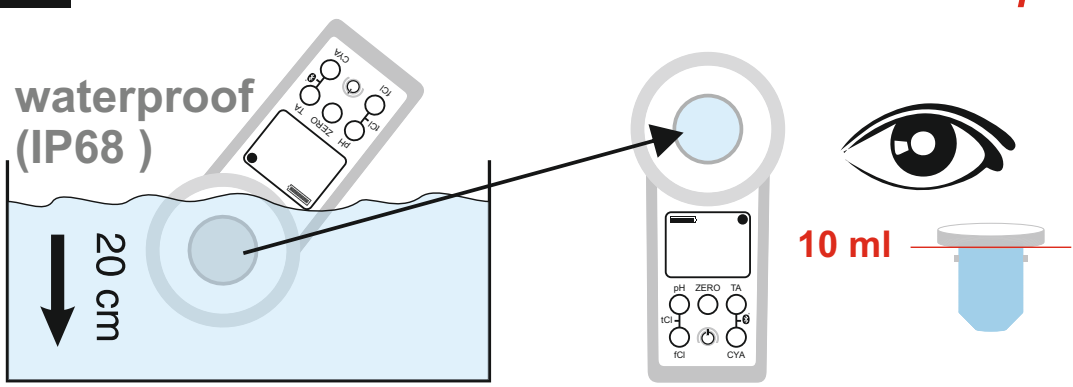
1

**not part of standard equipment*



2

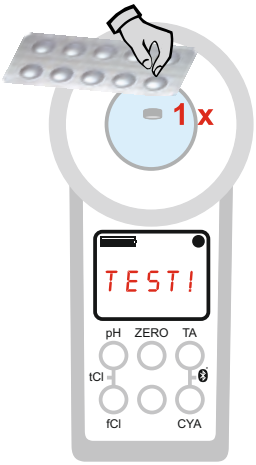
take 10 ml water sample



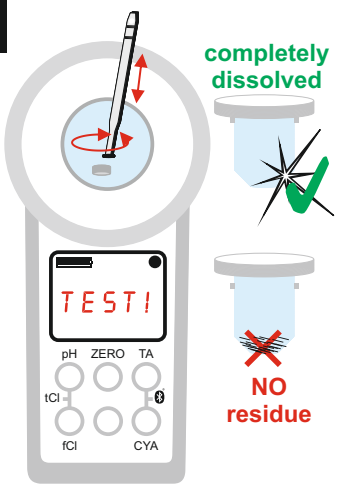
Wasserstoffperox. • Hyd. Peroxide
Perox. d'Hydrogène

3

Acidifying PT*

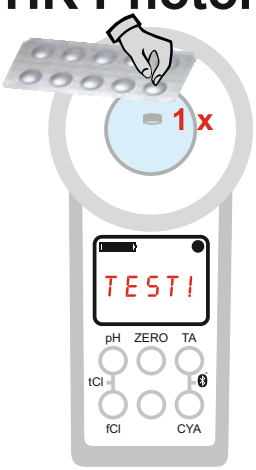


4

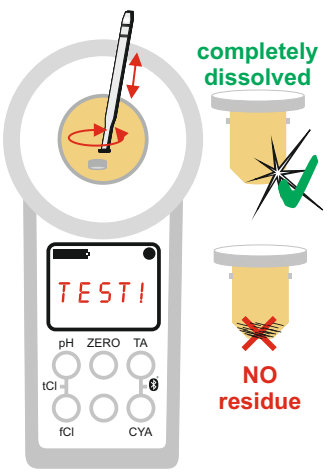


5

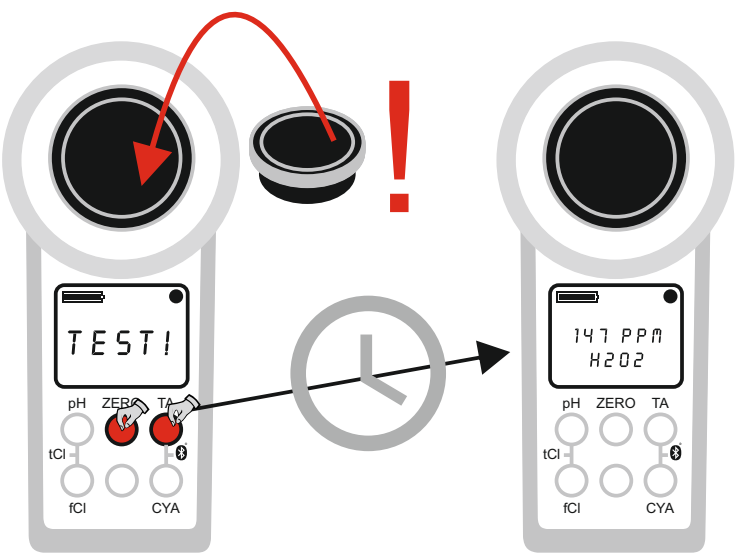
Hyd. Peroxide HR Photometer*



6



7



ppm = mg/l

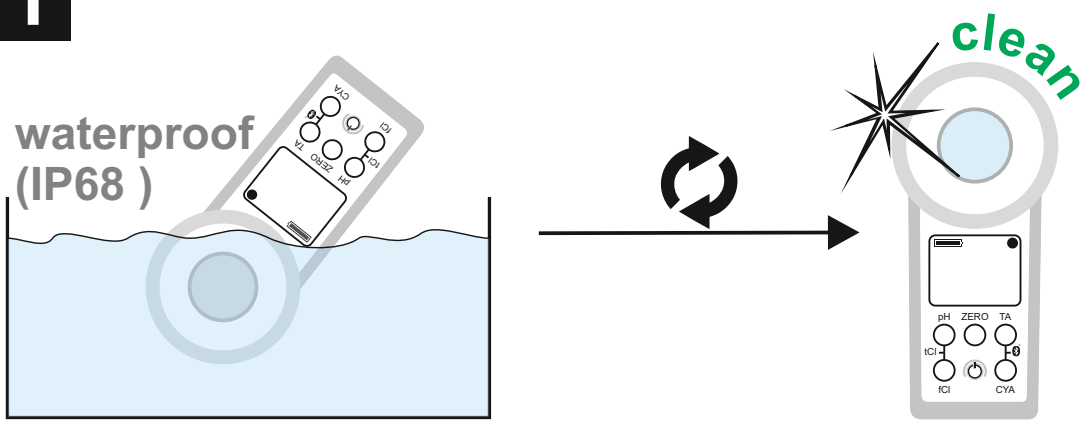
Gesamthärte
Total Hardness
Dureté Totale

0 – 500 ppm (mg/l)

*POL20TH1**
*POL10TH2**

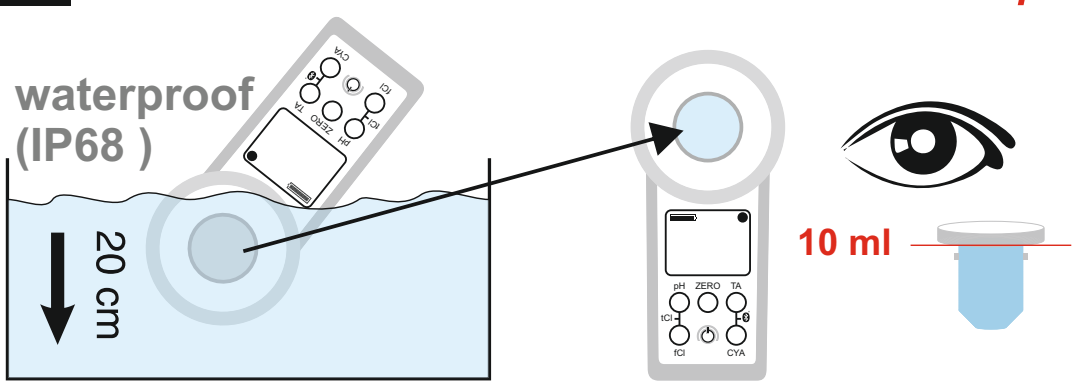
1

**not part of standard equipment*



2

take 10 ml water sample

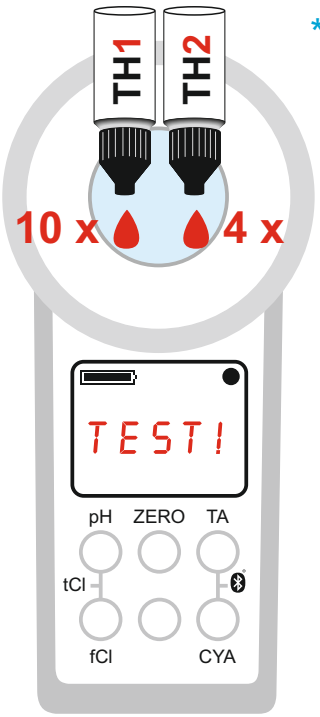


Gesamthärte • Total Hardn. • Dureté Totale

3

POL20TH1*
POL10TH2*

*shake before use!



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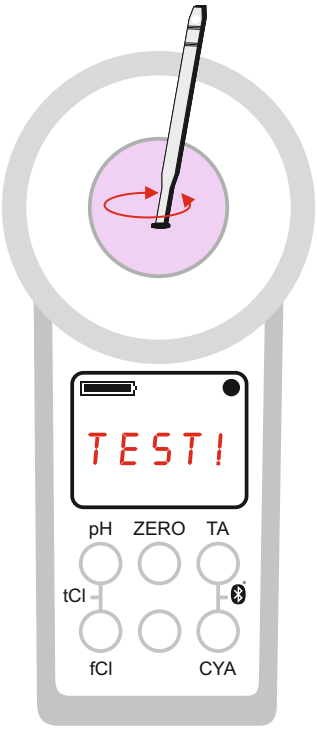

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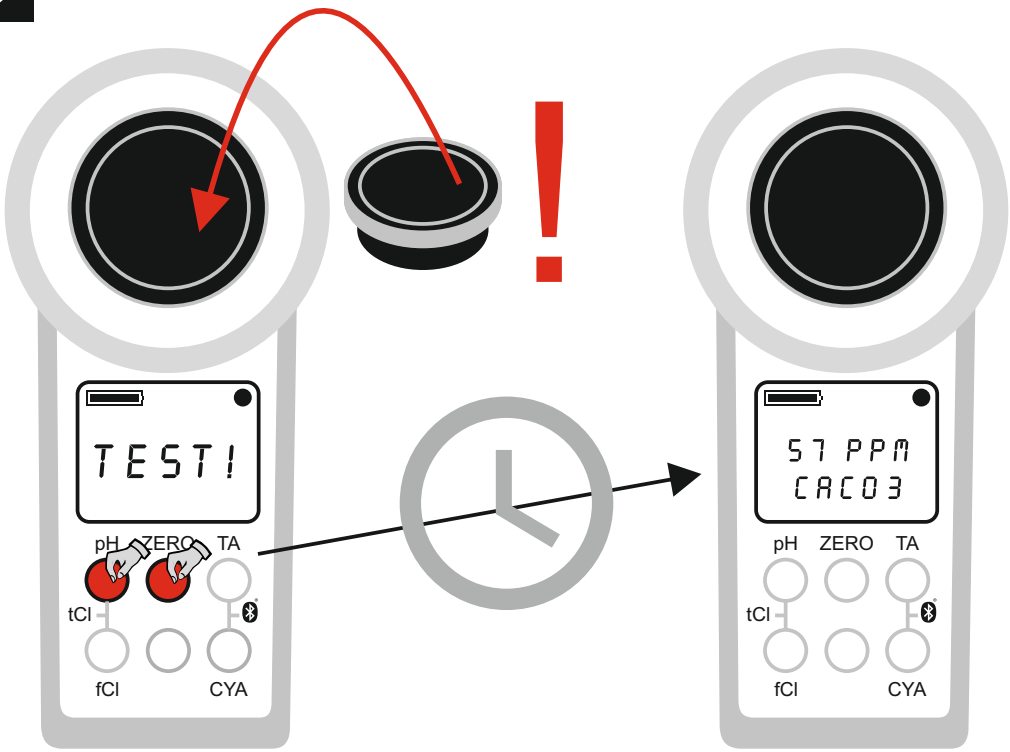


ppm = mg/l

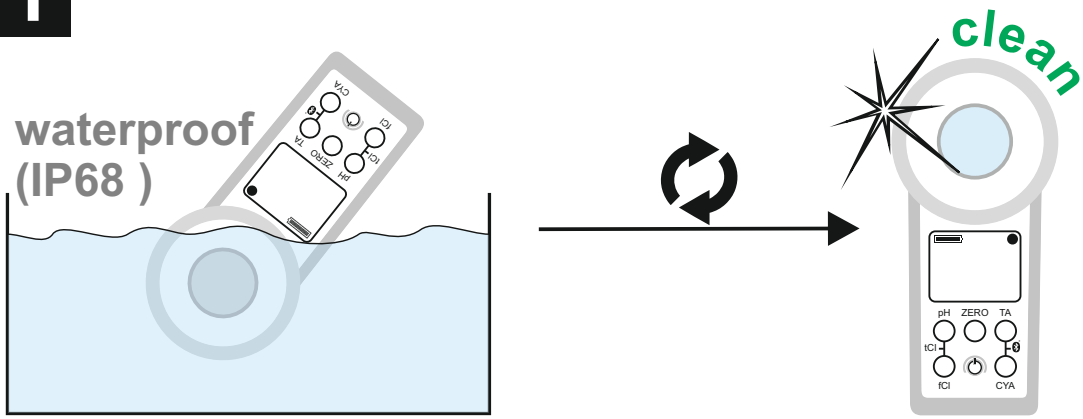
Kalziumhärte
Calcium Hardness
Dureté Calcique

0 – 500 ppm (mg/l)

*POL20CaH1**
*POL20CaH2**

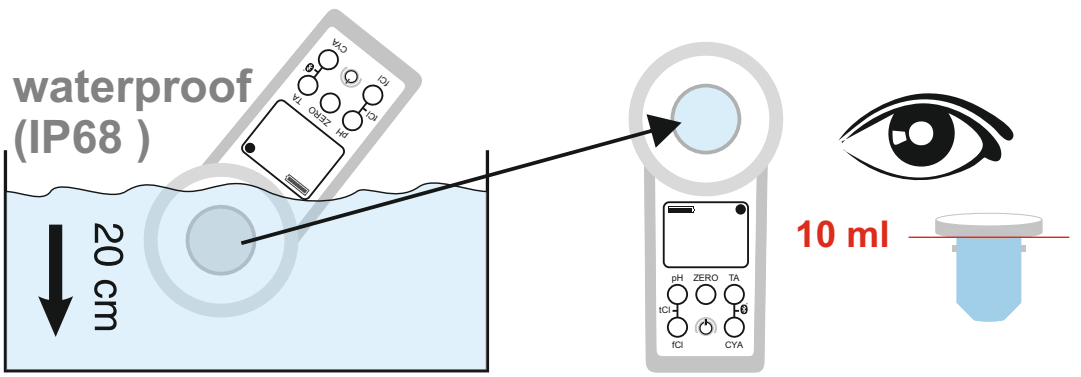
1

**not part of standard equipment*



2

take 10 ml water sample

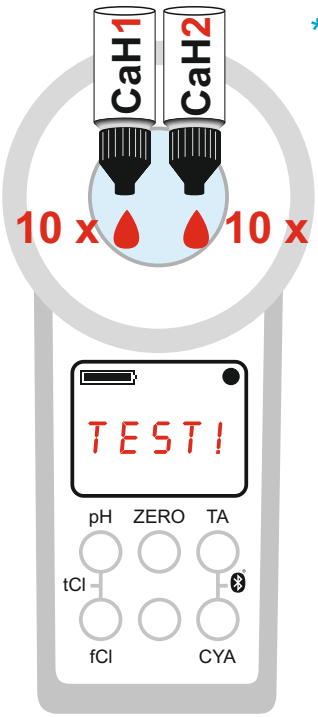


Kalziumhärte • Calcium Hard. Dureté Calcique

3

POL20CaH1*
POL20CaH2*

*shake before use!



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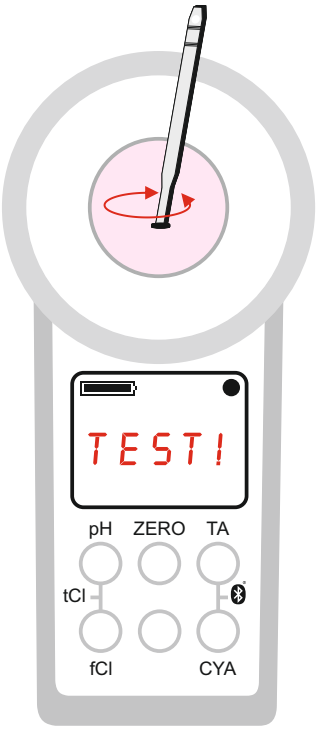

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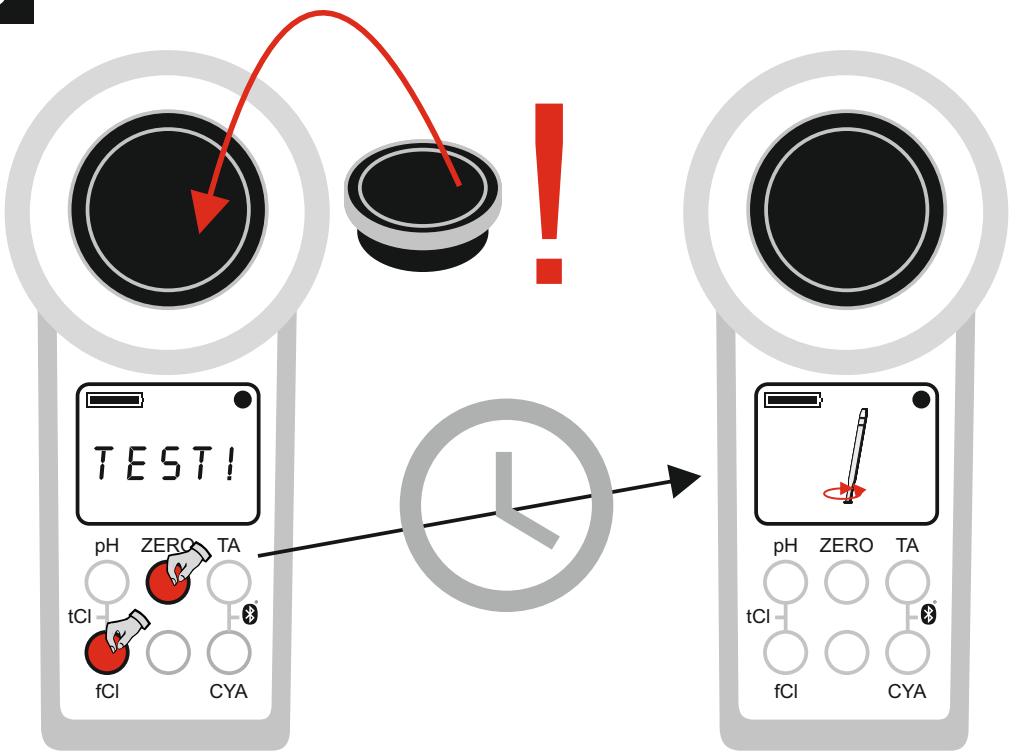
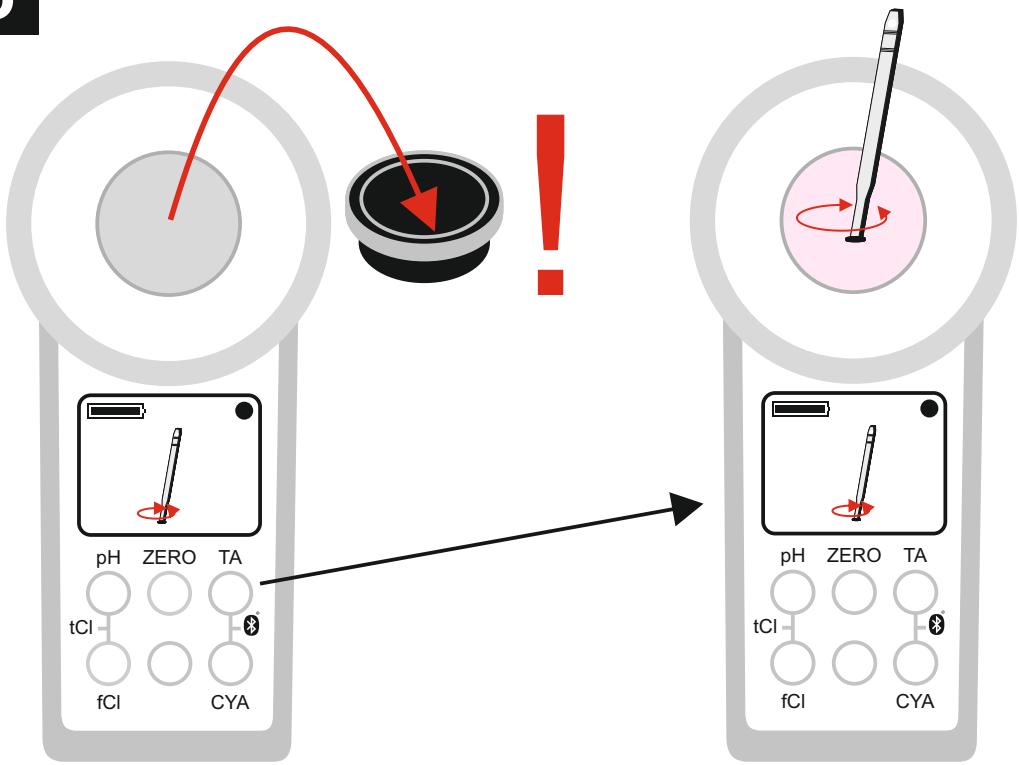


Kalziumhärte • Calcium Hard. Dureté Calcique

6



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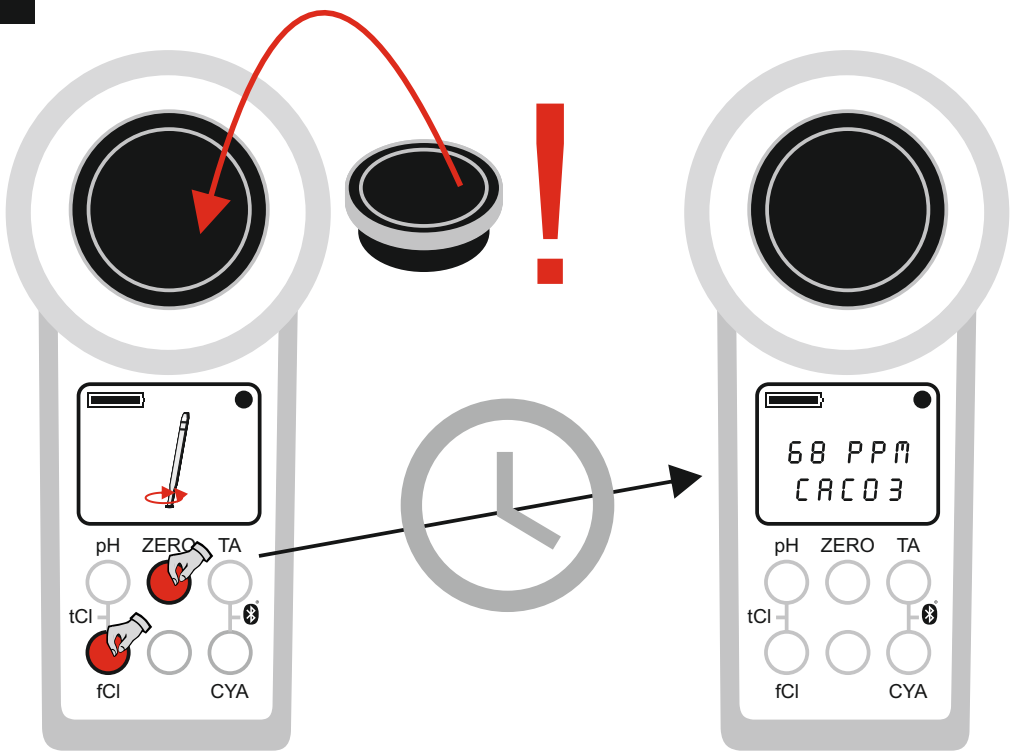


Härte-Umrechnung • Hardness Conversion
Conversion de dureté

	$CaCO_3$ 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

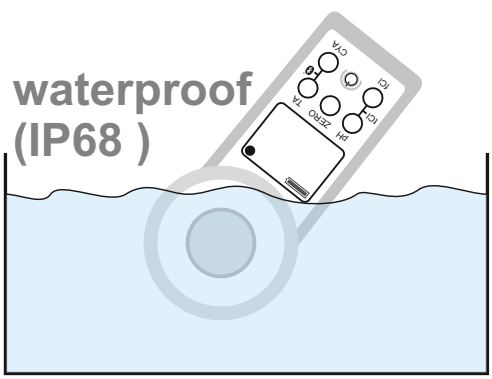
Harnstoff
Urea
Urée

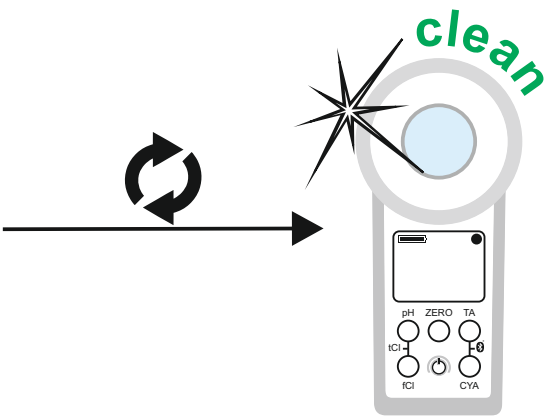
0.1 – 2.5 ppm (mg/l)

*Dechlor**
*PL Urea 1**
*PL Urea 2**
*Ammonia N°1**
*Ammonia N° 2**

1

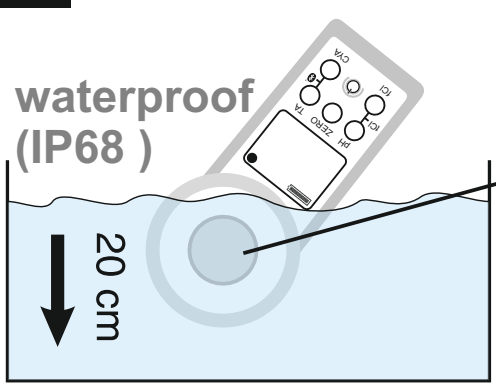
**not part of standard equipment*

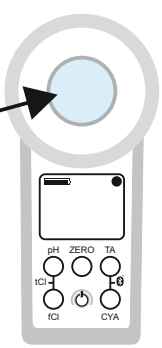


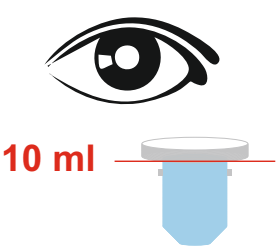


2

take 10 ml water sample



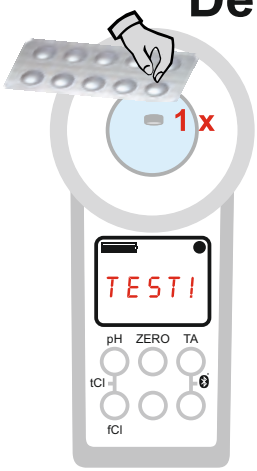




Harnstoff • Urea • Urée

3

Dechlor



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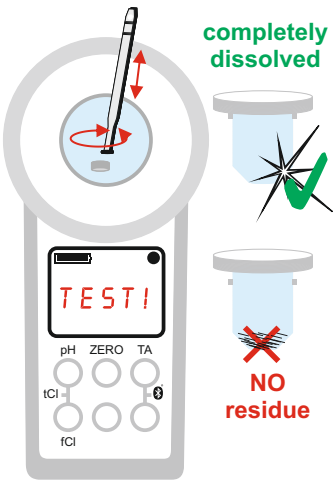

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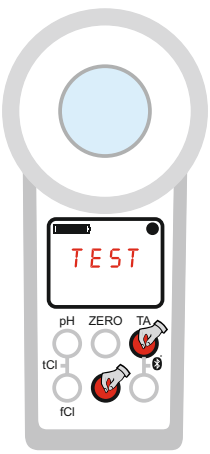
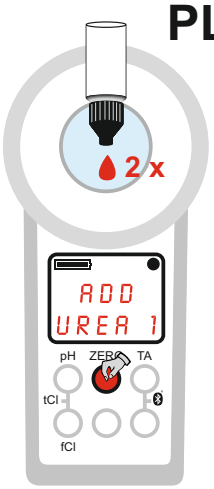


6

PL Urea 1*

*shake before use!



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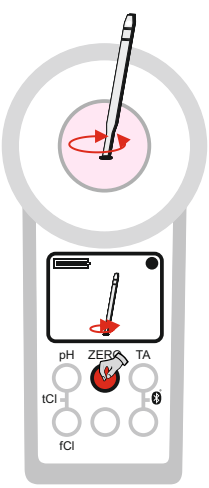
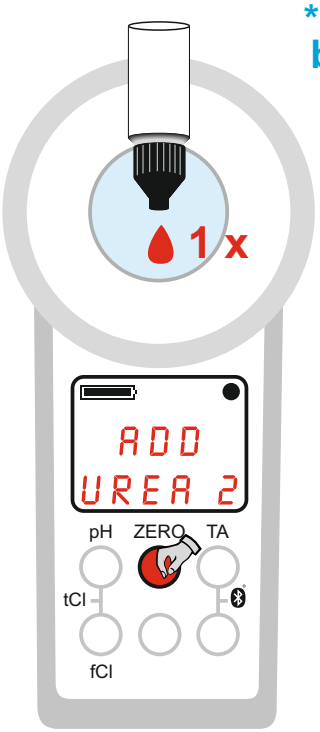


Harnstoff • Urea • Urée

8

PL Urea 2*

*shake before use!



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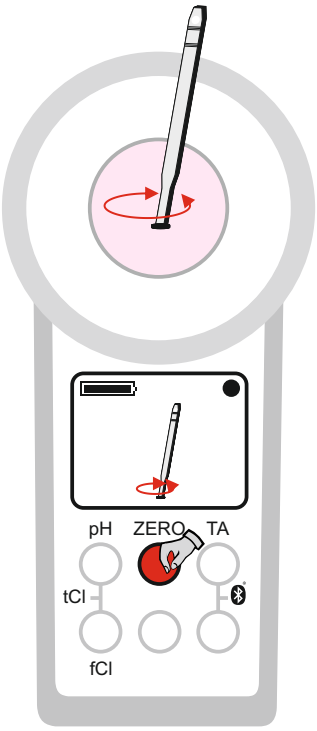

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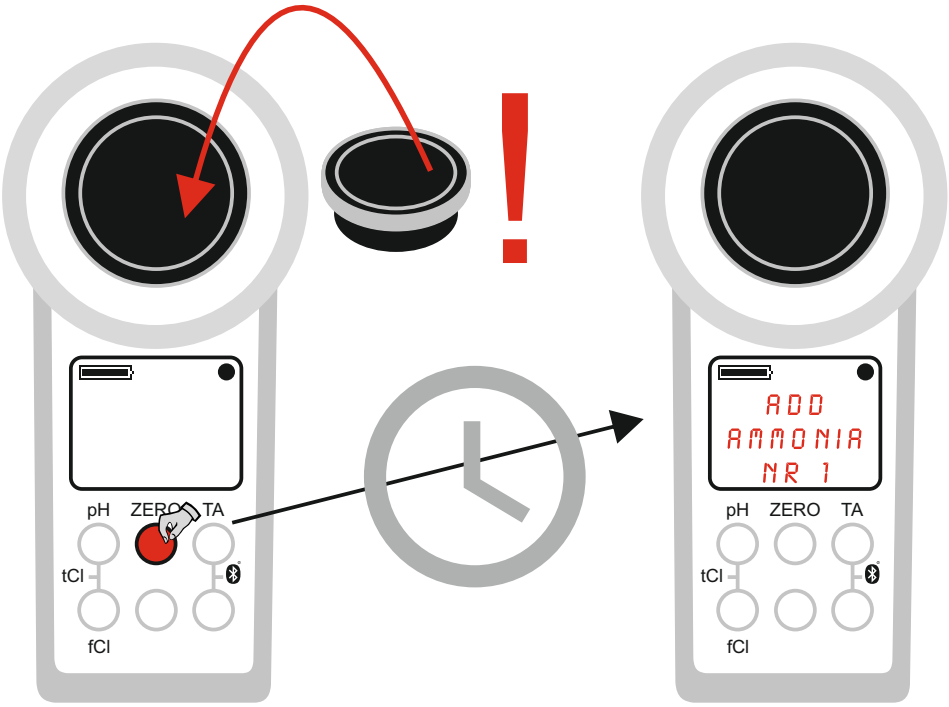
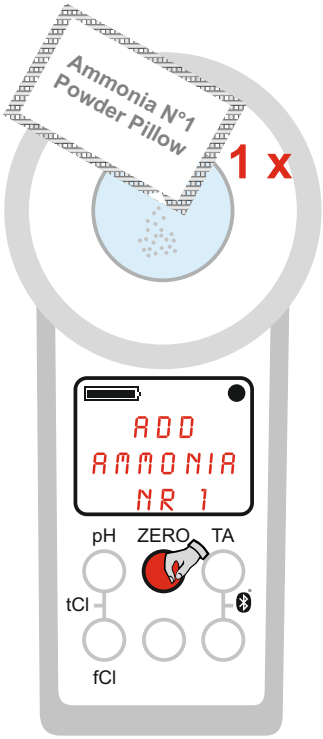


Harnstoff • Urea • Urée

11 Ammonia N° 1



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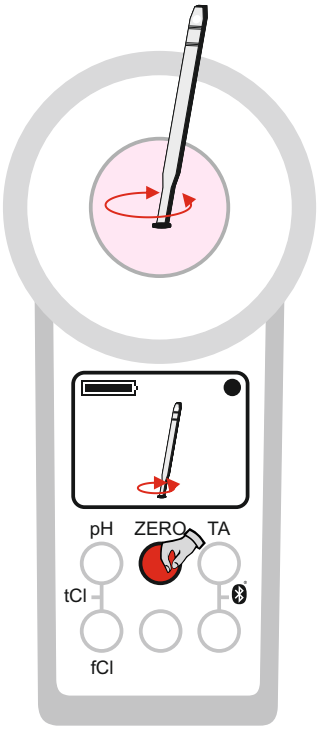
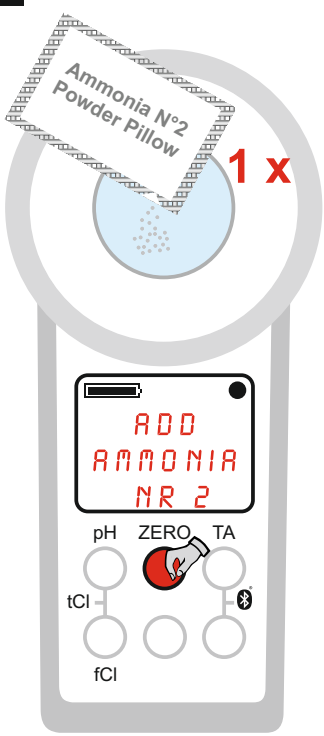


13 Ammonia N° 2



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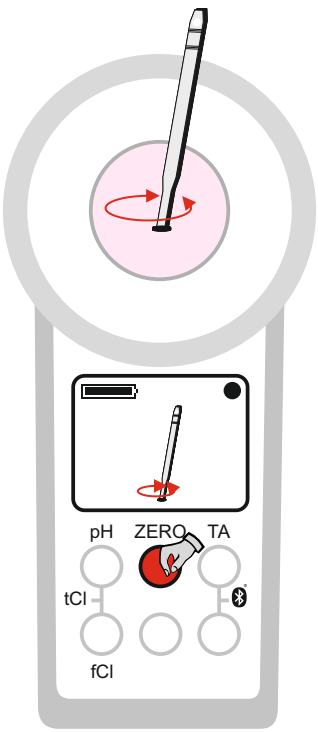
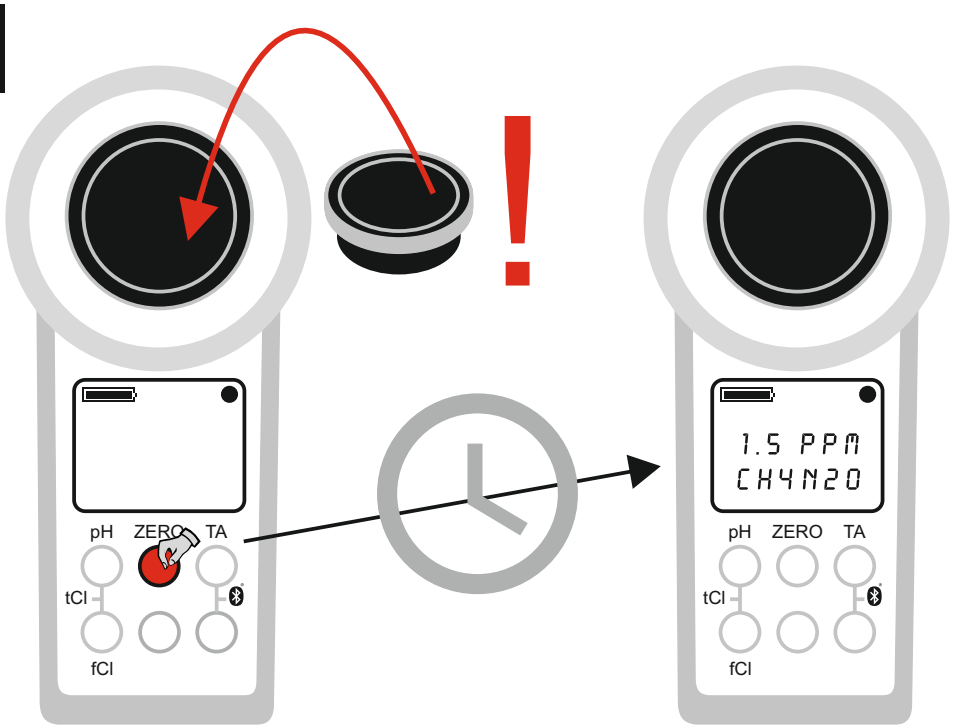


Harnstoff • Urea • Urée

15



ppm = mg/l

Wenn die Probe freies Chlor enthält, muss vor der Zugabe von PL Urea 1 und PL Urea 2 eine "Dechlor-Tablette in die Küvette gegeben werden. Ammonia N°1 löst sich erst ganz auf, nachdem Sie Ammonia N°2 zugeben. Ammoniak und Chloramine werden zusammen detektiert. Das angezeigte Ergebnis ist daher die Summe der beiden. Die Temperatur der Probe muss zwischen 20°C und 30°C liegen. Der Test muss spätestens eine Stunde nach der Entnahme der Probe durchgeführt werden. Wenn Sie Meerwasser testen, muss die Probe mit einem speziellen Konditionierungspulver vorbehandelt werden, bevor Sie Ammonia N°1 hinzufügen. Lagern Sie PL Urea 1 nicht unter 10°C. Es könnte granulieren. PL Urea 2 muss zwischen 4°C und 8°C gelagert werden.

If the sample contains free chlorine, a „Dechlor“ tablet has to be added to the vial, before adding PL Urea 1 and PL Urea 2. Ammonia N° 1 only dissolves entirely after Ammonia N° 2 was added. Ammonia and chloramines will be detected together. The result displayed will show the sum of both. Temperature of the sample needs to be between 20°C and 30°C. Test needs to be carried out not later than 1 hour after taking the sample. If sea water is tested, sample needs to be pre-treated with special conditioning powder before Ammonia N° 1 is added. Do not store PL Urea 1 below 10°C as it might granulate.PL Urea 2 needs to be stored between 4°C and 8°C.

Si l'échantillon contient du chlore libre, une pastille "Dechlor" doit être ajoutée au flacon, avant l'ajout de PL Urée 1 et PL Urée 2. Ammonia N° 1 se dissout complètement une fois y avoir ajouté Ammonia N°2. Ammoniaque et chloramines sont détectés ensemble. Le résultat affiché est donc la somme des deux. L´échantillon doit avoir une température comprise entre 20°C et 30°C. Le test doit être réalisé au plus tard une heure après le prélèvement de l´échantillon.
Si vous testez de l´eau de mer, il faut préalablement traiter l´échantillon avec des poudres à conditionnement spécielles avant d´y ajouter Ammonia N°1.
Ne stockez pas PL Urea 1 à une température inférieure à 10°C car cela pourrait entraîner une granulation. PL Urea 2 doit être stocké entre 4°C et 8°C.

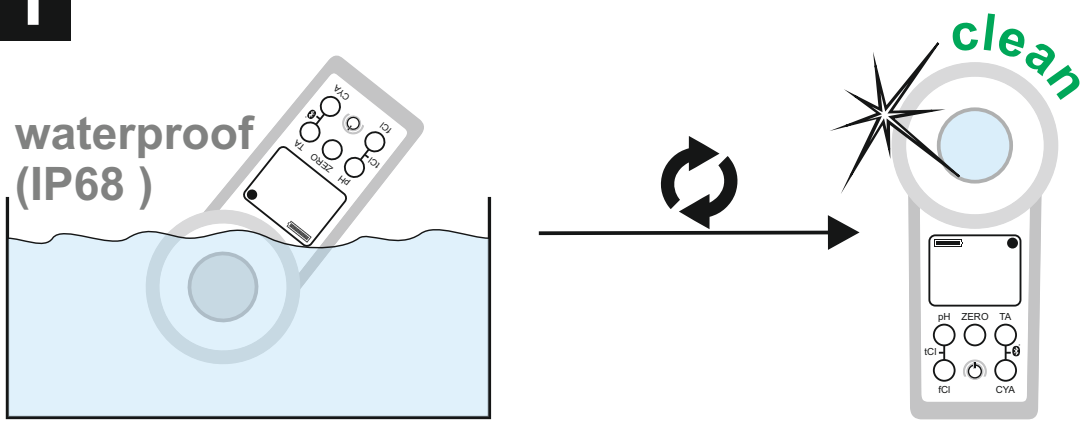
PHMB

5 – 60 ppm (mg/l)

PHMB Photometer

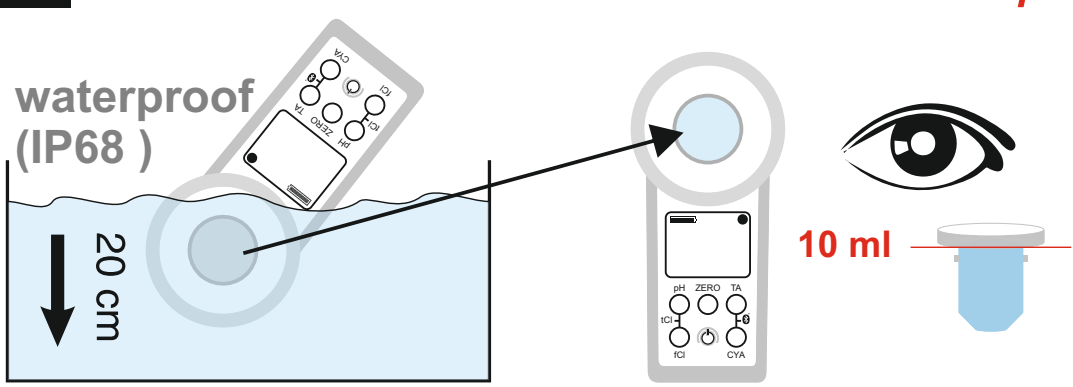
1

**not part of standard equipment*



2

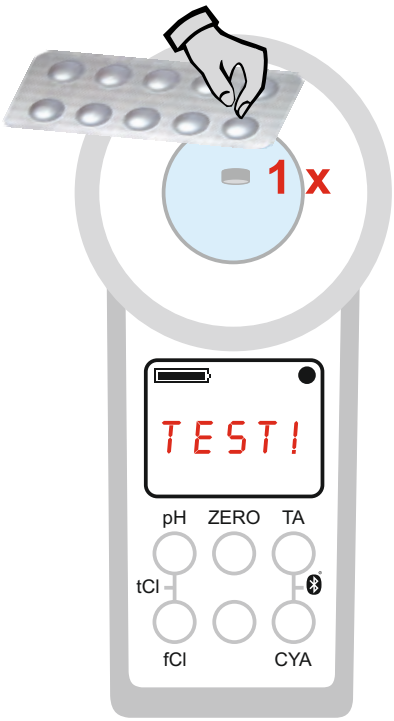
take 10 ml water sample



PHMB

3

PHMB Photometer



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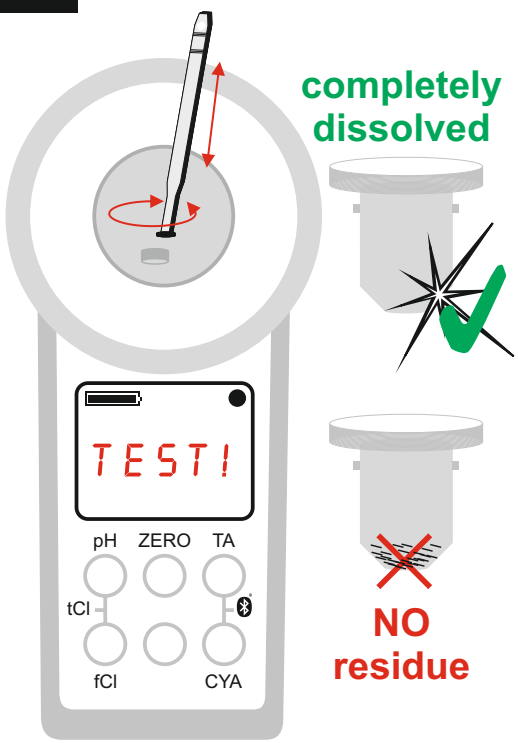

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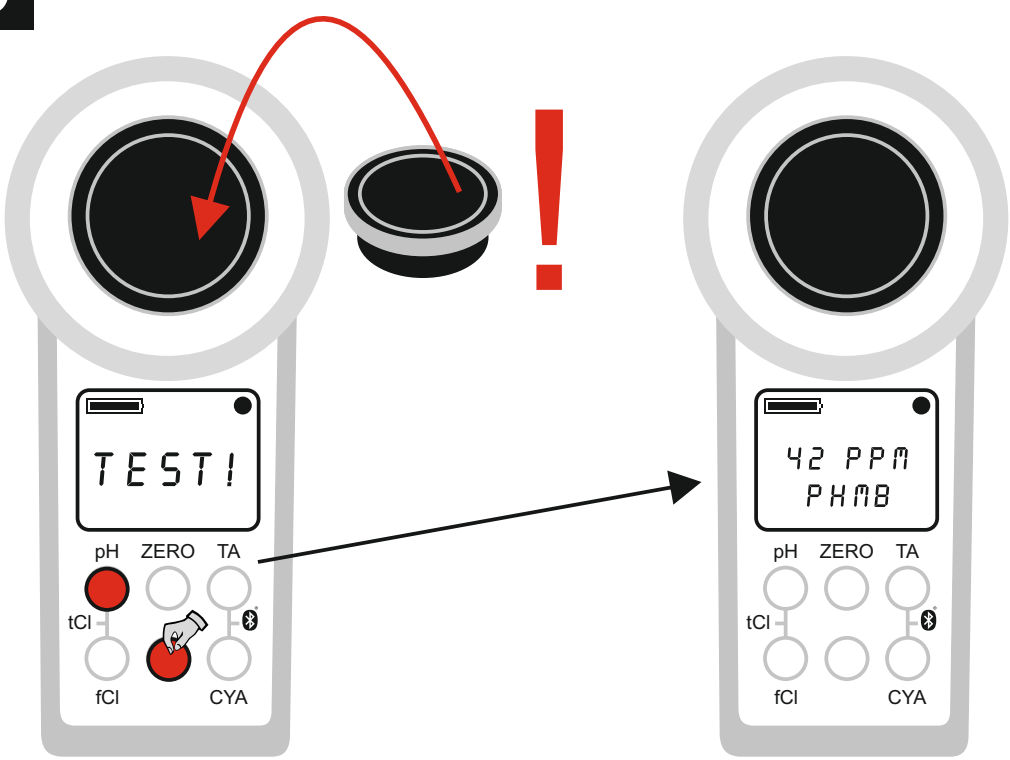


ppm = mg/l

Reinigen Sie unbedingt die für die Messung verwendeten und mit dem mit Reagenz versetzten Messwasser in Berührung gekommenen Gegenstände (Küvette, Deckel, Rührstab) gründlich mit einer Bürste, Wasser und anschließend mit destilliertem Wasser, da sich ansonsten das Messbesteck mit der Zeit blau verfärben kann. Alkalinitätswerte (M) <>120 mg/l und Calzium-Härte-Werte <>200 mg/l können zu Messwertabweichungen führen.

It is imperative that you clean the objects used for the measurement and come into contact with the sample water containing the reagent (cuvette, lid, stirring rod) thoroughly with a brush, water and then with distilled water, otherwise the measuring equipment may turn blue over time. Alkalinity values (M) <> 120 mg / l and calcium hardness values <> 200 mg / l can lead to measured value deviations.

Il est impératif de nettoyer soigneusement tous les objets utilisés pour la mesure qui rentre en contact avec l'échantillon d'eau contenant le réactif (cuve, couvercle, tige d'agitation) avec le goupillon, de l'eau puis de l'eau distillée, sinon l'équipement de mesure peut virer au bleu . Les valeurs d'alcalinité (M) <> 120 mg / l et les valeurs de dureté calcique <> 200 mg / l peuvent entraîner des écarts de valeur mesurés.

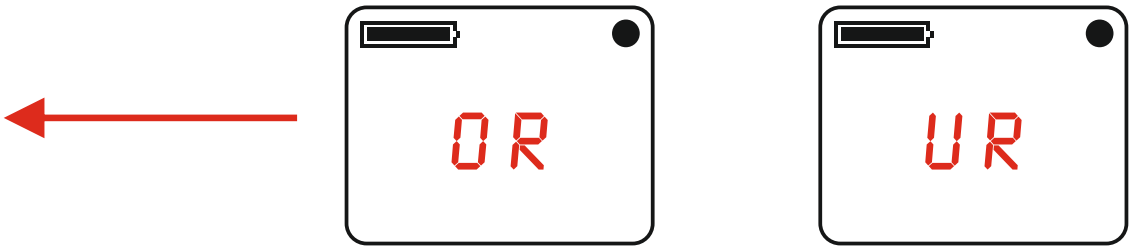
OR–UR / Verdünnung • OR–UR / Dilution OR–UR / Dilución

OR = Overrange/UR = Underrange
Das Testergebnis ist außerhalb des Messbereiches dieses Verfahrens. OR Ergebnisse können durch Verdünnung in den Messbereich gebracht werden. Verwenden Sie die Spritze und nehmen 5ml (oder 1ml) Testwasser plus 5ml (9ml) destilliertes Wasser. Führen Sie den Test durch und multiplizieren Sie das Ergebnis mal 2 (mal 10). Verdünnung ist nicht auf den Parameter "pH" anwendbar.

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 (au dessus de la plage de mesure)
/ UR = underrange (en dessous de la plage de mesure). Le résultat du test est en dehors de la portée de la méthode. Si Affichage "OR" il faut diluer l'échantillon . Utilisez une seringue en plastique pour prendre 5 ml (ou 1 ml) d'eau échantillon et complétez j'usqu'à 10 ml avec de l'eau distillée. Testez à nouveau et multipliez le résultat par 2 (si vous avez pris 5 ml d'échantillon + 5 ml d'eau distillée) ou par 10 (si vous avez pris 1 ml d'échantillon et 9 ml d'eau distillée). La dilution ne fonctionne pas avec la mesure du "pH".

Fehlercodes • Error codes
Codes d'erreur



BAT!:	Batterien wechseln • Change batteries • Changer les piles
Err02:	(Zu dunkel) Messkammer säubern oder Wasserprobe verdünnen • (Too dark) Clean measurement chamber or dilute sample • (Trop sombre) Nettoyer la chambre de mesure ou diluer l'échantillon
Err03:	(Zu hell) Lichtschutzdeckel während der Messung nicht vergessen • (Too bright) Don‘t forget light shield during measurement • (Trop lumineux) N'oubliez pas le couvercle durant la mesure
Err04:	ZERO und TEST wiederholen • Repeat ZERO and TEST • Répéter ZERO et TEST
Err05:	Umgebungstemperatur unter -5°C oder über 60°C • Ambient temperature below -5°C or above 60°C • température ambiante sous -5°C ou supérieure à 60°C

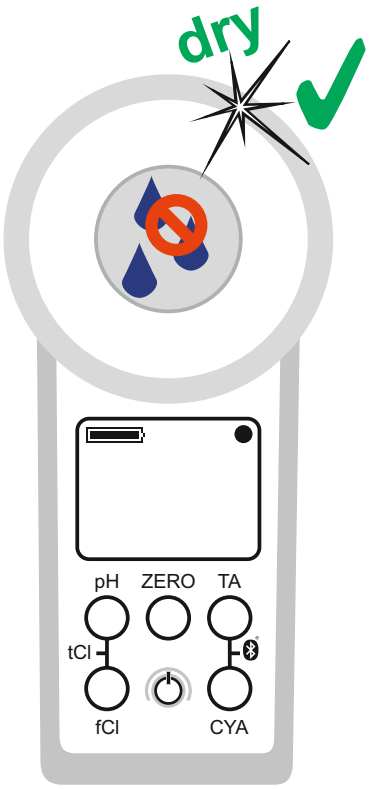
Fehlerbehebung • Troubleshoot Dépannage

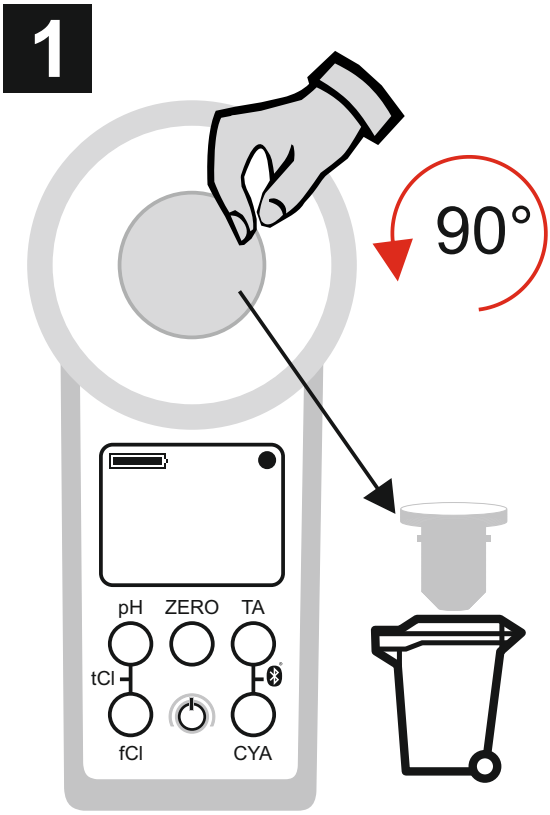
1) 01.01.1970: Das Datum auf dem PoolLab® MultiTest PRO ist im Auslieferzustand, nach jedem Batteriewechsel und nach jedem Update auf 01.01.1970 eingestellt. Bitte erneut mit der LabCOM® App verbinden, damit das Smartphone Datum neu übernommen wird. **2)** Idealwerte: Bitte wenden Sie sich an den Lieferanten Ihrer Pool-Chemie, um Idealwerte für Ihren Pool zu erfragen. **3)** Verkratzte Küvette: Solange die Küvette nicht im oberen Drittel sondern nur im Bodenbereich verkratzt ist, muss diese nicht gewechselt werden. **4)** Tabletten bitte mit dem Rührstab kräftig zerdrücken. Die Küvette geht nicht kaputt. **5)** Gesamtchlor kann im Rahmen der in dieser Anleitung abgebildeten Toleranzen durchaus niedriger angezeigt werden, als das freie Chlor. **6)** Feuchtigkeit im Display: Kann auftreten, wenn die Rest-Luftfeuchte im Gehäuse durch das kalte Wasser beim Eintauchen kondensiert

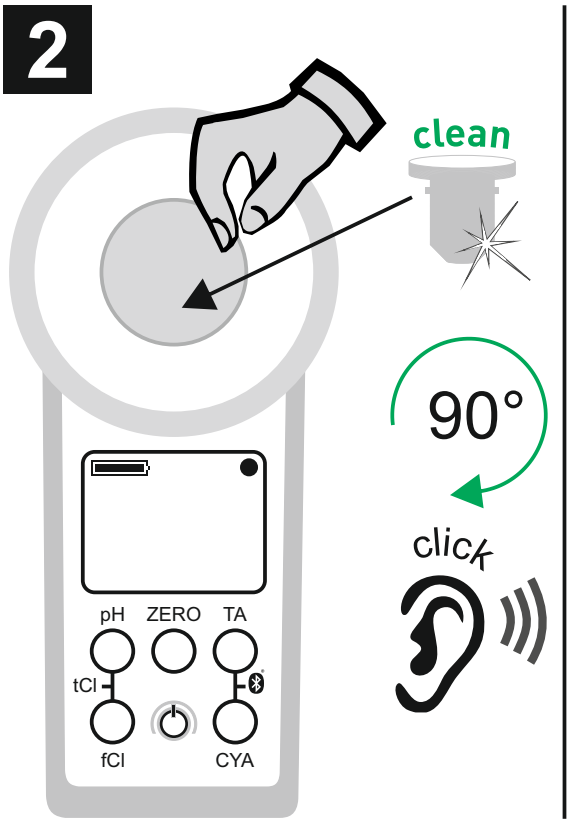
1) 01.01.1970: The date on the PoolLab® MultiTest PRO is set to 01.01.1970 when delivered, after each battery change and after each update. Please reconnect to the LabCOM® app so that the smartphone date is adopted again. **2)** Ideal values: Please contact the supplier of your pool chemistry to ask for ideal values for your pool. **3)** Scratched cuvette: As long as the cuvette is not scratched in the upper third but only in the bottom area, it does not have 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.

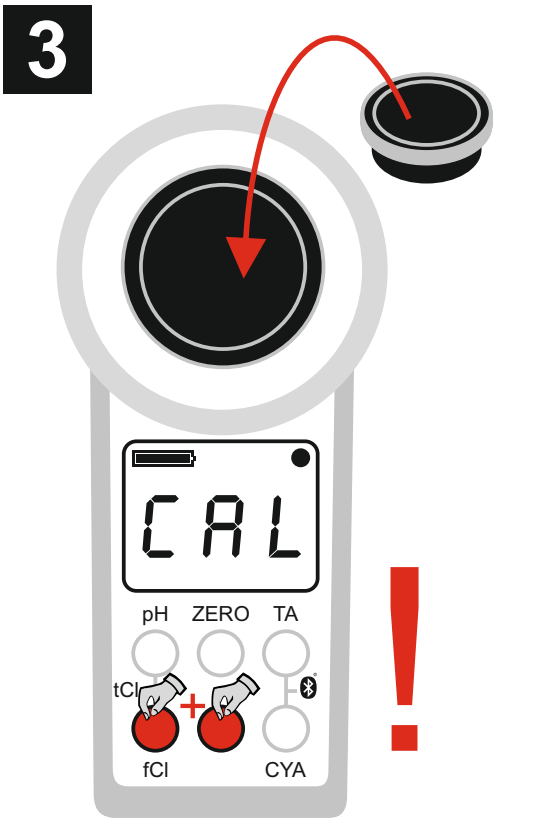
1) 01.01.1970: la date du PoolLab® MultiTest PRO est réglée sur le 01.01.1970 à la livraison, après chaque changement de batterie et après chaque mise à jour. Veuillez vous reconnecter avec l'application LabCOM® pour que la date du smartphone soit à nouveau adoptée. **2)** Valeurs idéales : Veuillez contacter le fournisseur de la chimie de votre piscine pour demander les valeurs idéales pour votre piscine. **3)** Flacon rayé: tant que le flacon n'est pas rayé dans le tiers supérieur mais seulement dans la zone inférieure, il n'est pas nécessaire de le remplacer. **4)** Veuillez écraser vigoureusement les comprimés à l'aide de l'agitateur. La cuvette ne se brisera pase **5)** Le chlore total peut être affiché plus bas que le chlore libre dans les limites des tolérances indiquées dans ce manuel. **6)** Humidité dans l'écran: peut se produire si l'humidité résiduelle dans le boîtier se condense à cause de l'eau froide pendant l'immersion.

Küvettenwechsel • Changing the cuvette
Changer la cuvette









Zubehör • Accessories • Accessoires

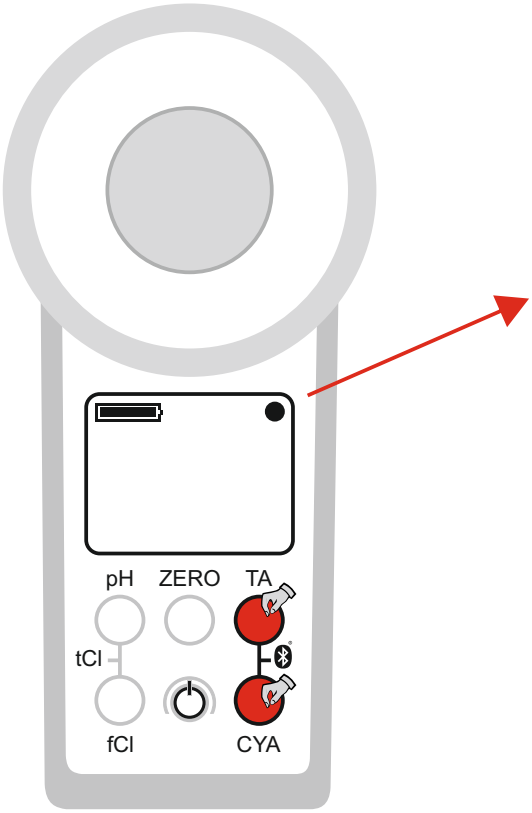
Reagenzien • Reagents • Réactifs

POL01-Nf	20/20/10/10/10 Phenol Red / DPD N° 1 / DPD N° 3 / -Test / Alkalinity-M Photometer
TbsPph50	50 x Phenol Red Photometer
TbsPD150	50 x DPD N° 1 Photometer
TbsPD350	50 x DPD N° 3 Photometer
TbsPD450	50 x DPD N° 4 Photometer
TbsPCAT50	50 x CYA-Test Photometer
TbsPHP50	50 x Hyd. Peroxide LR Phot.
TbsPHPHR50	50 x Hyd. Peroxide HR Phot.
TbsHAPP50	50 x Acidifying PT Photometer
TbsPTA50	50 x Alkalinity-M Photometer
TbsHGC50	50 x Glycine
PPHAM150	50 x Ammonia N° 1 Powder Pillows
PPPAM250	50 x Ammonia N° 2 Powder Pillows
POL20TH1	20ml POLTH1 (50 tests)
POL10TH2	10ml POLTH2 (50 tests)
POL20CaH1	20ml POLCaH1 (50 tests)
POL20CaH2	20ml POLCaH2 (50 tests)
POL4Urea1	4ml PL Urea 1
POL2Urea2	2ml PL Urea 2
TbsPPB50	50 x PHMB Photometer
TbsHDC50	50 x Dechlor

Ersatzteile • Spare parts • Pièces de rechange

POLsp-kv	Replacement cuvette
POLsp-str	Plastic stirring/crushing rod
POLsp-ls	Rubber light shield
POLsp-box	PoolLab® MultiTest PRO carrying box
POLsp-RSK-f	Reference standard-kit

Software / App
Logiciel / application



● Bluetooth ON
○ Bluetooth OFF

Windows/ MacOS: **www.pooltotal.com**

GET IT ON Google Play

Download on the App Store

Cloud

labcom.cloud

LED:	530 nm / 570 nm / 620 nm
AAA	3 x AAA (1.5 V, LR03)
ZZZZ	300 sec.
	5 – 45°C
	IP 68 (1 h / 1.2 m)

Developed in Germany
Produced in PRC

Toleranzen • Tolerances • Tolérances

Aktivsauerstoff (MPS) • Active Oxygen (MPS) Oxygène actif (MPS)

Range	±
0.0 – 5.0	0.5 ppm (mg/l)
5.0 – 15.0	1.3 ppm (mg/l)
15.0 – 25.0	3.8 ppm (mg/l)
25.0 – 30.0	5.0 ppm (mg/l)

Alkalinität • Alkalinity • Alcalinité

Range	±
0 – 30	3 ppm (mg/l)
30 – 60	7 ppm (mg/l)
60 – 100	12 ppm (mg/l)
100 – 200	18 ppm (mg/l)

Brom • Bromine • Brome

Range	±
0.0 – 2.5	0.2 ppm (mg/l)
2.5 – 6.5	0.6 ppm (mg/l)
6.5 – 11.0	1.7 ppm (mg/l)
11.0 – 13.5	2.3 ppm (mg/l)

Toleranzen • Tolerances • Tolérances

Kalziumhärte • Calcium Hardness Dureté Calcique	
Range	**±**
0 – 25	8 ppm (mg/l)
25 – 100	22 ppm (mg/l)
100 – 300	34 ppm (mg/l)
300 – 500	45 ppm (mg/l)

Chlor • Chlorine • Chlore	
Range	**±**
0.00 – 2.00	0.10 ppm (mg/l)
2.00 – 3.00	0.23 ppm (mg/l)
3.00 – 4.00	0.75 ppm (mg/l)
4.00 – 8.00	1.00 ppm (mg/l)

Cyanursäure • Cyanuric Acid Acide cyanurique	
Range	**±**
0 – 15	1 ppm (mg/l)
15 – 50	5 ppm (mg/l)
50 – 120	13 ppm (mg/l)
120 – 160	19 ppm (mg/l)

Toleranzen • Tolerances • Tolérances

Chlordioxid • Chlorine Dioxide
Dioxyde de Chlore

Range	±
0.00 – 2.00	0.19 ppm (mg/l)
2.00 – 6.00	0.48 ppm (mg/l)
6.00 – 10.00	1.43 ppm (mg/l)
10.00 – 11.40	1.90 ppm (mg/l)

Wasserstoffperoxid • Hydrogen Peroxide
Peroxyde d'Hydrogène
(LR)

Range	±
0.00 – 0.50	0.05 ppm (mg/l)
0.50 – 1.50	0.12 ppm (mg/l)
1.50 – 2.00	0.36 ppm (mg/l)
2.00 – 2.90	0.48 ppm (mg/l)

Wasserstoffperoxid • Hydrogen Peroxide
Peroxyde d'Hydrogène
(HR)

Range	±
0 – 50	5 ppm (mg/l)
50 – 110	6 ppm (mg/l)
110 – 170	11 ppm (mg/l)
170 – 200	13 ppm (mg/l)

Toleranzen • Tolerances • Tolérances

Ozon • Ozone	
Range	**±**
0.00 – 1.00	0.07 ppm (mg/l)
1.00 – 2.00	0.17 ppm (mg/l)
2.00 – 3.00	0.51 ppm (mg/l)
3.00 – 4.00	0.68 ppm (mg/l)

pH	
Range	**±**
6.50 – 8.40	0.11 pH

Gesamthärte • Total Hardness • Dureté Totale	
Range	**±**
0 – 30	3 ppm (mg/l)
30 – 60	5 ppm (mg/l)
60 – 100	10 ppm (mg/l)
100 – 200	17 ppm (mg/l)
200 – 300	22 ppm (mg/l)
300 – 500	58 ppm (mg/l)

Harnstoff • Urea • Urée

Range	±
0.00 – 0.30	0.05 ppm (mg/l)
0.30 – 0.60	0.06 ppm (mg/l)
0.60 – 1.00	0.09 ppm (mg/l)
1.00 – 1.50	0.12 ppm (mg/l)
1.50 – 2.50	0.19 ppm (mg/l)

PHMB

Range	±
5 – 60	5 ppm (mg/l)

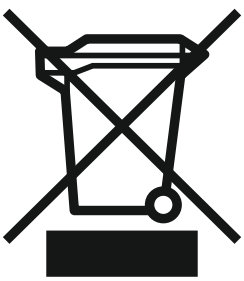
Disposal

Device

According to EC Directive 2002/96/EC, electronic devices must not be disposed of in normal domestic waste. The manufacturer of this device, Water-i.d. GmbH, Daimlerstr. 20, D-76344 Eggenstein will dispose of your PoolLab® MultiTest PRO free of charge (not including costs of sending the device to us). Send your PoolLab® MultiTest PRO for disposal - freight prepaid- to the address shown above.

Batteries

According to EC Guideline 2006/66/EC, user is obliged to dispose in a proper manner by returning worn out batteries to dedicated collection places such as any shop selling batteries. Batteries must not be disposed of in normal domestic waste.



CE compliance statement

We, the manufacturer of the PoolLab® MultiTest PRO hereby declare compliance of PoolLab® MultiTest PRO with the essential requirements in accordance to the Directive 2014/53/EU of the European Parliament and of the Council of April 16th, 2014:

ETSI EN 300 328 (V2.1.1)
EN 62479 (2010)
ETSI EN 301 489-1 (V2.1.1)
ETSI EN 301 489-17 (3.1.1)
EN 61326 (2013)
EN 61010-1 (2010)

FCC Part 15 compliance statement
IC licence-exempt RSS compliance statement

This device complies with part 15 of the FCC Rules. 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.

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 instruction, 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 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 circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada Licence-Exempt Radio Apparatus

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus
This device complies with FCC and Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must not be collocated or operating in conjunction with any other antenna or transmitter.
Cet appareil est conforme aux limites FCC et Industry Canada concernant l'exposition aux rayonnements RF établies pour le grand public. (Environnement non-contrôlé)
Cet émetteur ne doit pas être co-situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

Changes or modifications not expressly approved by Water-i.d. GmbH could void the user‘s authority to operate the equipment.

FCC ID:	2ALRR-POOLLAB10
IC:	22610- POOLLAB10
Model:	POOL LAB 1.0

Anmerkungen • Notes • Remarques

Anmerkungen • Notes • Remarques

Anmerkungen • Notes • Remarques

Zertifikat • Certificate • Certificat

CERTIFICATE OF COMPLIANCE

We hereby certify that the device

PoolLab® MultiTest PRO

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 • D-76344 Eggenstein • Germany

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

S/N
Manufacturing date