

PoolLAB^{2.0}®

PHOTOMETER



User Manual



Gebrauchsanleitung



Manual de usuario



Manuel d'utilisation



Manuale dell'utente



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- 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 User guide
- 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!



Wasseranalysetabletten nur für chemische Analysen! Nicht einnehmen!
Darf nicht in die Hände von Kindern gelangen! Kühl und trocken lagern!



Pastillas para el análisis del agua, solamente para análisis químicos!
No para tomar! No debe llegar a las manos de niños! Consérvese en lugar fresco y seco!



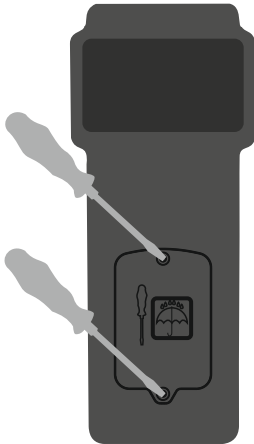
Utiliser uniquement des réactifs pour l'analyse de l'eau! Ne pas avaler!
Garder hors de portée des enfants! Stocker au frais et au sec!



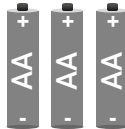
Pastiglie per analisi dell'acqua per l'industria chimica! Non ingerire! Tenere fuori dalla portata dei bambini! Conservare in luogo fresco ed asciutto!



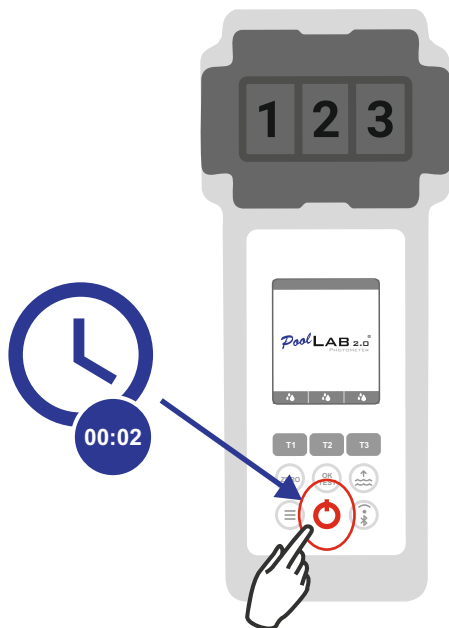
	Change
	Wechseln
	Cambio
	Changer
	Cambiamento



3 x AA



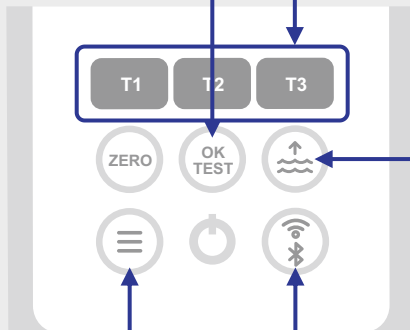
	No rechargeable batteries!
	Keine aufladbaren Batterien!
	¡No hay baterías recargables!
	Pas de piles rechargeables!
	Niente batterie ricaricabili!



1x – Starts Countdown/TEST
when single measurement

1x – Starts Countdown/TEST
when parallel measurement

2 sec – Opens Parameterlist



1x – Opens
Sampling Points

1x – Opens Main Menu

1x – Starts WiFi Connection/
Cloud Sync.
2x – Bluetooth® ON/OFF

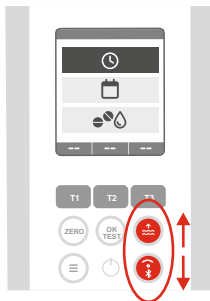
Device Settings
Geräteeinstellungen
Configuración del dispositivo
Réglages de l'appareil
Impostazioni del dispositivo



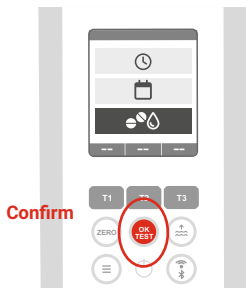
1



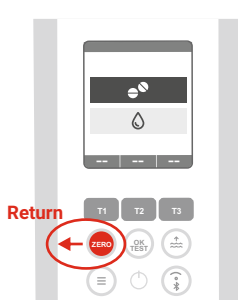
2



3



4





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.



Reines Informationsmenü! Sofern für das PoolLab® 2.0 eine Cloud-Synchronisierung eingerichtet ist (einzurichten über die LabCOM® App während das PoolLab® 2.0 per Bluetooth® mit der App verbunden ist), wird hier das Cloud-Konto angezeigt, mit dem synchronisiert wird.



¡Puro menú informativo! Si la sincronización en la nube está configurada para el PoolLab® 2.0 (que se configura a través de la aplicación LabCOM® mientras el PoolLab® 2.0 está conectado a la aplicación a través de Bluetooth®), aquí se muestra la cuenta en la nube con la que se realiza la sincronización.



Menu d'information uniquement ! Si une synchronisation dans le nuage est configurée pour le PoolLab® 2.0 (à configurer via l'app LabCOM® pendant que le PoolLab® 2.0 est connecté à l'app via Bluetooth®), le compte dans le nuage avec lequel la synchronisation est effectuée s'affiche ici.



Un menu di pura informazione! Se è stata impostata la sincronizzazione cloud per il PoolLab® 2.0 (da impostare tramite l'app LabCOM® mentre il PoolLab® 2.0 è collegato all'app tramite Bluetooth®), qui viene visualizzato l'account cloud con cui avviene la sincronizzazione.



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



Reines Informationsmenü! Sofern für das PoolLab® 2.0 eine WLAN-Verbindung eingerichtet ist (einzurichten über die LabCOM® App während das PoolLab® 2.0 per Bluetooth® mit der App verbunden ist), wird hier das WLAN-Netzwerk angezeigt, mit dem synchronisiert wird.



¡Puro menú informativo! Si está configurada una conexión WiFi para el PoolLab® 2.0 (configurada a través de la aplicación LabCOM® mientras el PoolLab® 2.0 está conectado a la aplicación a través de Bluetooth®), aquí se muestra la red WLAN con la que se está realizando la sincronización.



Menu d'information uniquement! Si une connexion WiFi est configurée pour le PoolLab® 2.0 (à configurer via l'app LabCOM® pendant que le PoolLab® 2.0 est connecté à l'app via Bluetooth®), le réseau WLAN avec lequel la synchronisation est effectuée est affiché ici.



Un menu di pura informazione! Se è stata impostata una connessione WiFi per il PoolLab® 2.0 (impostata tramite l'app LabCOM® mentre il PoolLab® 2.0 è collegato all'app tramite Bluetooth®), qui viene visualizzata la rete WLAN con la quale è in corso la sincronizzazione.



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



Datum und Uhrzeit werden bei der Verbindung (Bluetooth®) des PoolLab® 2.0 mit der LabCOM® App automatisch berichtigt, können in der App aber auch manuell geändert und auf das PoolLab® 2.0 übertragen werden. In diesem Menü können Sie zusätzlich zwischen dem 12h-Format (z.B. 02:00 PM) oder dem 24h-Format (z.B. 14:00) wählen.



La fecha y la hora se corrigen automáticamente cuando el PoolLab® 2.0 está conectado (Bluetooth®) a la aplicación LabCOM®, pero también se pueden cambiar manualmente en la aplicación y transferirlas a el PoolLab® 2.0. En este menú, puede elegir además entre el formato de 12h (por ejemplo, 02:00 PM) o el formato de 24h (por ejemplo, 14:00).



La date et l'heure sont automatiquement corrigées lors de la connexion (Bluetooth®) de le PoolLab® 2.0 avec l'app LabCOM®, mais peuvent également être modifiées manuellement dans l'app et transférées sur le PoolLab® 2.0. Dans ce menu, vous pouvez en outre choisir entre le format 12h (par ex. 02:00 PM) ou le format 24h (par ex. 14:00).



La data e l'ora vengono corrette automaticamente quando il PoolLab® 2.0 è collegato (Bluetooth®) all'app LabCOM®, ma possono anche essere modificate manualmente nell'app e trasferite al PoolLab® 2.0. In questo menu è inoltre possibile scegliere tra il formato 12h (ad es. 02:00 PM) e il formato 24h (ad es. 14:00).



The date and time are automatically corrected when the PoolLab® 2.0 is connected (Bluetooth®) to the LabCOM® app, but can also be changed manually in the app and transferred to the PoolLab® 2.0. In this menu you can also choose between display 1 (MM/DD/YYYY – example 09/27/2023) and display 2 (DD/MM/YYYY – example 27/09/2023).



Datum und Uhrzeit werden bei der Verbindung (Bluetooth®) des PoolLab® 2.0 mit der LabCOM® App automatisch berichtigt, können in der App aber auch manuell geändert und auf das PoolLab® 2.0 übertragen werden. In diesem Menü können Sie zusätzlich zwischen der Anzeige 1 (MM/TT/JJJJ – Beispiel 09/27/2023) und der Anzeige 2 (TT/MM/JJJJ – Beispiel 27/09/2023) wählen.



La fecha y la hora se corrigen automáticamente cuando el PoolLab® 2.0 está conectado (Bluetooth®) a la app LabCOM®, pero también se pueden cambiar manualmente en la app y transferirlas a el PoolLab® 2.0. En este menú también puede elegir entre la visualización 1 (MM/DD/AAAA – ejemplo 27/09/2023) y la visualización 2 (DD/MM/AAAA – ejemplo 27/09/2023).



La date et l'heure sont automatiquement corrigées lors de la connexion (Bluetooth®) de le PoolLab® 2.0 à l'app LabCOM®, mais peuvent également être modifiées manuellement dans l'app et transférées sur le PoolLab® 2.0. Dans ce menu, vous pouvez en outre choisir entre l'affichage 1 (MM/JJ/AAAA – exemple 09/27/2023) et l'affichage 2 (JJ/MM/AAAA – exemple 27/09/2023).



La data e l'ora vengono corrette automaticamente quando il PoolLab® 2.0 è collegato (Bluetooth®) all'app LabCOM®, ma possono anche essere modificate manualmente nell'app e trasferite al PoolLab® 2.0. In questo menu è inoltre possibile scegliere tra la visualizzazione 1 (MM/GG/AAAA – esempio 27/09/2023) e la visualizzazione 2 (GG/MM/AAAA – esempio 27/09/2023).



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



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).



Einige Parameter (siehe oben gelistet) können mit dem PoolLab® 2.0 sowohl mit Tablettenreagenzien als auch Flüssigreagenzien gemessen werden. Wählen Sie im Menü zwischen dem Tabletten- und dem Flüssigmodus. Die Flüssigreagenzien dürfen nur im Flüssigmodus verwendet werden, da andernfalls falsche Ergebnisse gemessen werden! Der gewählte Modus wird durch ein Symbol in der Statusleiste (oben auf dem Bildschirm) angezeigt.



Algunos parámetros (véase la lista anterior) pueden medirse en el PoolLab® 2.0 tanto con reactivos en tableta como con reactivos líquidos. Seleccione entre el modo tableta y el modo líquido en el menú. Los reactivos líquidos sólo pueden utilizarse en modo líquido, de lo contrario se medirán resultados incorrectos. El modo seleccionado se indica con un símbolo en la barra de estado (parte superior de la pantalla).



Certains paramètres (voir liste ci-dessus) peuvent être mesurés sur le PoolLab® 2.0 aussi bien avec des réactifs en pastilles qu'avec des réactifs liquides. Choisissez dans le menu entre le mode pastille et le mode liquide. Les réactifs liquides ne doivent être utilisés qu'en mode liquide, sinon les résultats mesurés seront erronés! Le mode sélectionné est indiqué par une icône dans la barre d'état (en haut de l'écran).



Alcuni parametri (vedi elenco sopra) possono essere misurati sul PoolLab® 2.0 sia con reagenti in compresse che con reagenti liquidi. Selezionare nel menu la modalità tavoletta o liquido. I reagenti liquidi possono essere utilizzati solo in modalità liquida, altrimenti si misureranno risultati errati! La modalità selezionata è indicata da un simbolo nella barra di stato (in alto sullo schermo).



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



In der LabCOM® App können Sie Messquellen (z.B. „Pool 1“, „Pool 2“) anlegen und diese dann bei bestehender Bluetooth®-Verbindung auf das PoolLab® 2.0 übertragen. In diesem Menü können Sie die Messquelle auswählen, unter welcher die folgenden Messungen gespeichert werden sollen. Der Name der gewählten Wasserquelle steht auch auf dem Startbildschirm oben links.



En la aplicación LabCOM® puede crear fuentes de medición (por ejemplo, "Pool 1", "Pool 2") y luego transferirlas a el PoolLab® 2.0 con una conexión Bluetooth® existente a el PoolLab® 2.0. En este menú se puede seleccionar la fuente de medición en la que se deben guardar las siguientes mediciones. El nombre de la fuente de agua seleccionada también se muestra en la parte superior izquierda de la pantalla de inicio.



Dans l'app LabCOM®, vous pouvez créer des sources de mesure (p. ex. "Pool 1", "Pool 2") et les transférer ensuite sur le PoolLab® 2.0 lorsque la connexion Bluetooth® au PoolLab® 2.0 est établie. Dans ce menu, vous pouvez sélectionner la source de mesure sous laquelle les mesures suivantes doivent être enregistrées. Le nom de la source d'eau sélectionnée figure également en haut à gauche de l'écran d'accueil.



Nell'App LabCOM® è possibile creare sorgenti di misura (ad es. "Pool 1", "Pool 2") e poi trasferirle al PoolLab® 2.0 con una connessione Bluetooth® esistente al PoolLab® 2.0. In questo menu è possibile selezionare la sorgente di misura in cui salvare le misure successive. Il nome della fonte idrica selezionata viene visualizzato anche in alto a sinistra della schermata iniziale.



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 können Sie die Helligkeit des PoolLab® 2.0 Displays einstellen. Je heller das Display eingestellt ist, desto höher ist der Stromverbrauch des PoolLab® 2.0.



Aquí puede ajustar el brillo de la pantalla del PoolLab® 2.0. Cuanto más brillante sea la pantalla, mayor será el consumo de energía del PoolLab® 2.0.



Vous pouvez régler ici la luminosité de l'écran du PoolLab® 2.0. Plus l'écran est clair, plus la consommation électrique du PoolLab® 2.0 est élevée.



Qui è possibile impostare la luminosità del display del PoolLab® 2.0. Quanto più luminoso è il display, tanto maggiore è il consumo energetico del PoolLab® 2.0.



**Advices
Hinweise
Consejos
Conseils
Consigli**





ONLY SINGLE



The parameter to be measured may only be measured stand-alone (so NOT in parallel with other parameters).



Der zu messende Parameter darf nur allein (also NICHT parallel mit anderen Parametern) gemessen werden.



El parámetro a medir sólo puede medirse solo (es decir, NO en paralelo con otros parámetros).



Le paramètre à mesurer ne peut être mesuré que seul (donc PAS en parallèle avec d'autres paramètres).



Il parametro da misurare può essere misurato solo da solo (cioè NON in parallelo con altri parametri).



ONLY CHAMBER 2



The parameter to be measured may only be measured in the middle measuring chamber (2).



Der zu messende Parameter darf nur in der mittleren Messkammer (2) gemessen werden.



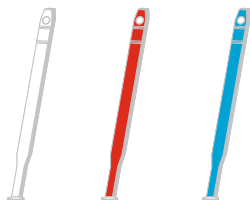
El parámetro a medir sólo puede medirse en la cámara de medición central (2).



Le paramètre à mesurer ne peut être mesuré que dans la chambre de mesure centrale (2).



Il parametro da misurare può essere misurato solo nella camera di misura centrale (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.



Um Kreuzkontaminationen zu vermeiden, wird Ihr PoolLab® 2.0 mit 3 verschiedenfarbigen Rührstäben geliefert. Es wird empfohlen, bei einer parallelen Messung nicht denselben Rührstab (z. B. nur den weißen), sondern für jede Kammer einen anderen zu verwenden.



Para evitar la contaminación cruzada, su PoolLab 2.0® viene con 3 varillas agitadoras de diferentes colores. Se recomienda no utilizar la misma varilla agitadora (por ejemplo, sólo la blanca) para una medición paralela, sino una diferente para cada cámara.



Pour éviter toute contamination croisée, votre PoolLab® 2.0 est livré avec 3 tiges d'agitation de couleurs différentes. Il est recommandé de ne pas utiliser le même agitateur (par exemple uniquement le blanc) pour une mesure en parallèle, mais un agitateur différent pour chaque chambre.



Per evitare la contaminazione incrociata, il PoolLab® 2.0 viene fornito con 3 bacchette di colore diverso. Si raccomanda di non utilizzare la stessa bacchetta (ad esempio solo quella bianca) per una misurazione parallela, ma una diversa per ogni camera.



PHOTOMETER



RAPID



Always use PHOTOMETER grade tablets! Never use RAPID grade tablets! RAPID tablets lead to incorrect measurement results! Do not touch reagent tablets!



Immer PHOTOMETER-Tabletten und nie RAPID-Tabletten verwenden! RAPID-Tabletten führen zu falschen Messergebnissen! Die Tabletten dürfen nicht berührt werden!



¡Usar siempre tabletas FOTÓMETRO y nunca usar tabletas RAPID! Las pastillas RAPID conducen a resultados de medición incorrectos. Las tabletas no se deben tocar!



Toujours utiliser des pastilles de qualité PHOTOMETRE! Ne jamais utiliser des pastilles de qualité "RAPID"! Les comprimés RAPID entraînent des résultats de mesure erronés !Ne touchez pas les pastilles avec les mains!



Sempre usare pasticche FOTOMETRO e non usare mai pasticche RAPID! Le compresse RAPID portano a risultati di misurazione errati! Le pasticche non devono essere toccati!



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 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) Das Datum Ihres PoolLab® 2.0 ist im Auslieferungszustand voreingestellt, kann aber von Ihrer Zeitzone abweichen. Datum und Uhrzeit können über die kostenlose LabCOM® App (Bluetooth® -Verbindung) geändert werden. Sollte der Batteriewechsel länger als 2 Minuten dauern bzw. Batterien falsch eingelegt werden, wird das Datum gelöscht. **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



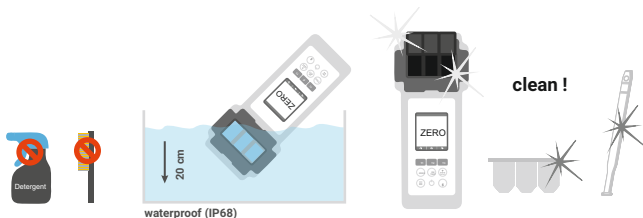
1) La fecha de su PoolLab® 2.0 está preestablecida cuando se entrega, pero puede diferir de su zona horaria. La fecha y la hora pueden modificarse a través de la aplicación gratuita LabCOM® (conexión Bluetooth®). Si el cambio de pilas tarda más de 2 minutos o las pilas se colocan incorrectamente, la fecha se borrará. **2)** Valores ideales: Póngase en contacto con el proveedor de productos químicos de su piscina para solicitar los valores ideales para su piscina. **3)** Ampolla rayada: Mientras la ampolla no esté rayada en el tercio superior sino sólo en la zona inferior, no es necesario sustituirla. **4)** Aplastar las pastillas enérgicamente con la varilla agitadora. La cubeta no se rompe **5)** El cloro total puede mostrarse más bajo que el cloro libre dentro de las tolerancias indicadas en este manual. **6)** Humedad en la pantalla: Puede ocurrir si la humedad residual en la carcasa se condensa debido al agua fría durante la inmersión.



1) La date de votre PoolLab® 2.0 est pré-réglée à la livraison, mais peut différer de votre fuseau horaire. La date et l'heure peuvent être modifiées via l'application gratuite LabCOM® (connexion Bluetooth®). Si le remplacement des piles dure plus de 2 minutes ou si les piles sont mal insérées, la date sera effacée. **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 pas. **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.



1) La data del PoolLab® 2.0 è preimpostata al momento della consegna, ma potrebbe differire dal vostro fuso orario. La data e l'ora possono essere modificate tramite l'applicazione gratuita LabCOM® (connessione Bluetooth®). Se la sostituzione delle batterie dura più di 2 minuti o se le batterie vengono inserite in modo errato, la data viene cancellata. **2)** Valori ideali: contattate il fornitore della chimica della vostra piscina per chiedere i valori ideali per la vostra piscina. **3)** Fiala graffiata: finché la fiala non è graffiata nel terzo superiore ma solo nella zona inferiore, non è necessario sostituirla. **4)** Schiacciare vigorosamente le compresse con la bacchetta. La cuvette non si rompe. **5)** Il cloro totale può essere visualizzato inferiore al cloro libero entro le tolleranze indicate in questo manuale. **6)** Umidità nel display: può verificarsi se l'umidità residua nella custodia si condensa a causa dell'acqua fredda durante l'immersione.



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!



Es ist wichtig, das Gerät nach jeder Messung zu reinigen, um sämtliche Reagenzienrückstände zu entfernen! Bitte stellen Sie sicher, dass die Küvette vor jeder Messung gereinigt wurde (z.B. unter klarem Wasser/oder einfaches Abspülen der Küvette im Pool reicht aus, solange keine Rückstände zurückbleiben). Verwenden Sie KEINE Reinigungsmittel!



Es importante limpiar el dispositivo después de cada medición para deshacerse de cualquier residuo de reactivo! Por favor, asegúrese de que la cubeta se ha limpiado antes de cada medición (por ejemplo, bajo agua limpia o simplemente enjuagando la cubeta en la piscina es suficiente mientras no queden residuos). NO utilice productos de limpieza.



Il est important de nettoyer le dispositif après chaque mesure pour éliminer les résidus de réactifs! Veuillez vous assurer que la cuvette a été nettoyée avant chaque mesure (par ex. sous l'eau claire/ou un simple rinçage de la cuvette dans la piscine suffit, tant qu'il n'y a pas de résidus). N'utilisez PAS de produits de nettoyage !



È importante pulire il dispositivo dopo ogni misurazione per eliminare i residui di reagente! Assicurarsi che la cuvetta sia stata pulita prima di ogni misurazione (ad esempio sotto l'acqua chiara o semplicemente sciacquando la cuvetta nella piscina è sufficiente, purché non rimangano residui). NON utilizzare detergenti!



Do not leave the device in the sun!



Lassen Sie das Gerät nicht in der Sonne liegen!



¡No deje el dispositivo al sol!



Ne laissez pas l'appareil au soleil!



Non lasciare il dispositivo al sole!



The PoolLab® is also suitable for saltwater pools/salt electrolysis pools!



Das PoolLab® ist auch für Salzwasserpools/Pools mit Salzelektrolyse geeignet!



PoolLab® también es adecuado para piscinas de agua salada/piscinas de electrólisis salina!



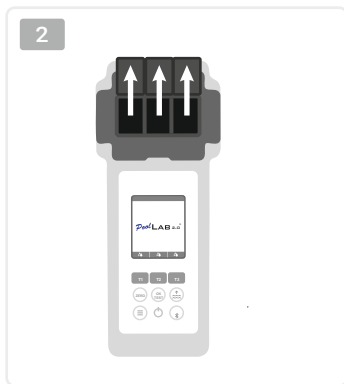
Le PoolLab® convient également aux piscines d'eau salée/piscines d'électrolyse au sel!



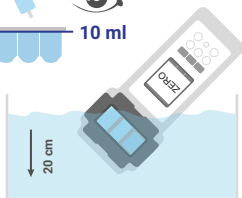
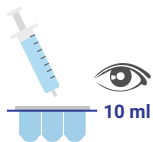
PoolLab® è adatto anche per piscine di acqua salata/piscine con elettrolisi del sale!

SINGLE PARAMETER

Quick Start Guide
Kurzanleitung
Guía De Inicio Rápido
Guide De Démarrage Rapide
Guida Rapida

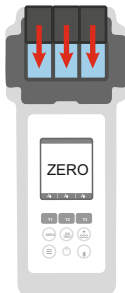


3



waterproof (IP68)

4

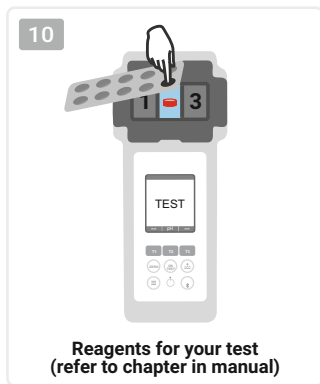
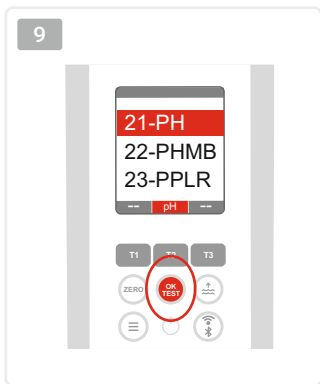
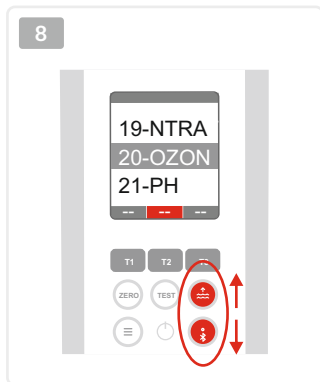
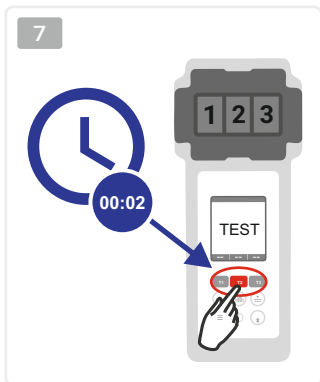


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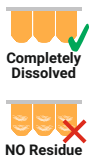


6





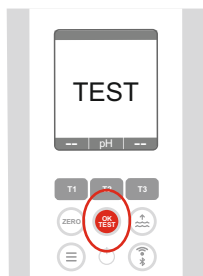
11



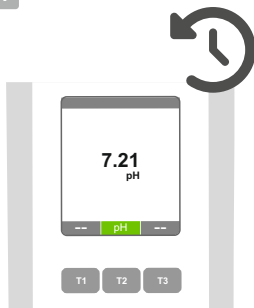
12



13

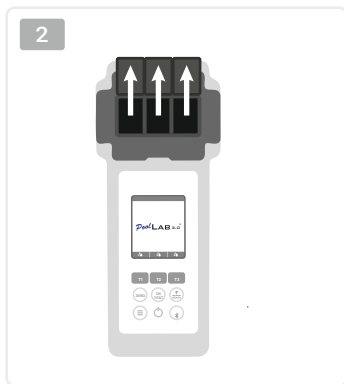


14

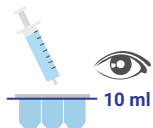


MULTIPLE PARAMETER

Quick Start Guide
Kurzanleitung
Guía De Inicio Rápido
Guide De Démarrage Rapide
Guida Rapida



3



waterproof (IP68)



4

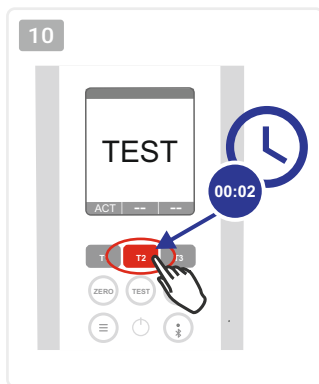
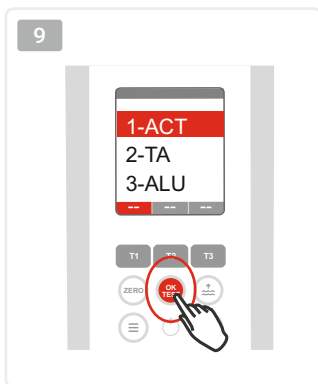
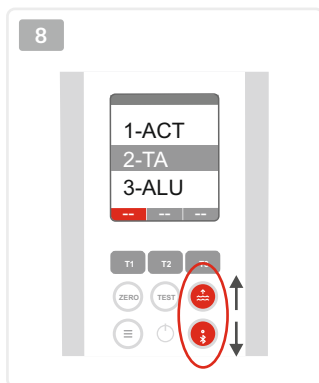
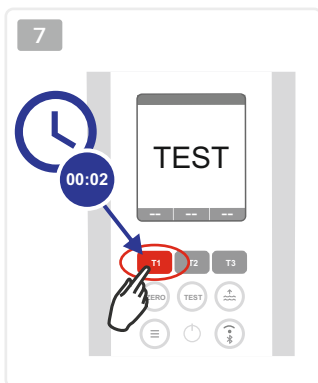


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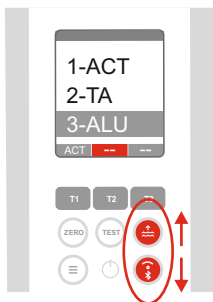


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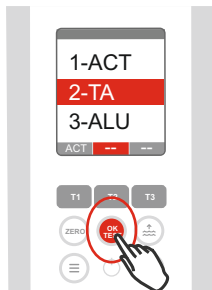




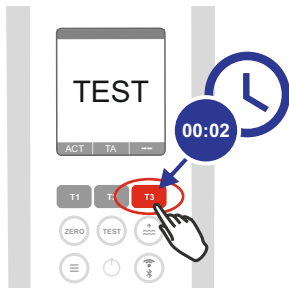
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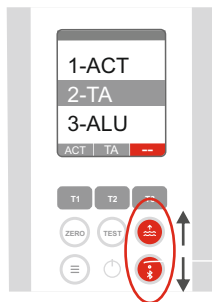
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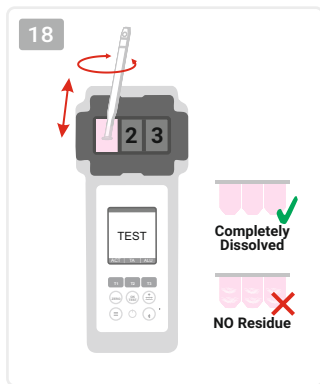
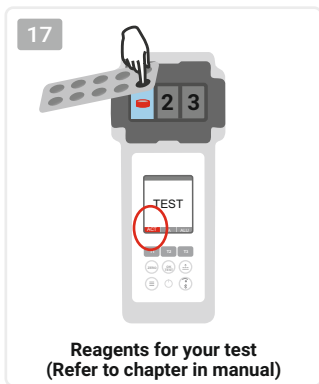
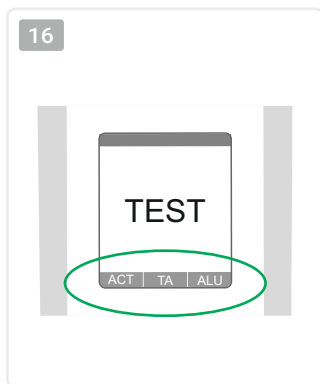
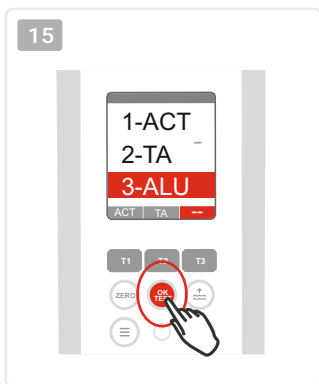


13



14





19

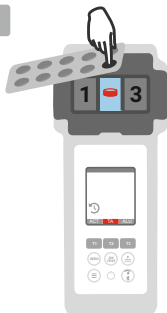


20



Starts Countdown

21



Reagents for your test
(Refer to chapter in manual)

22



23



24



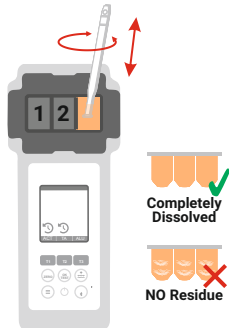
Starts Countdown !

25

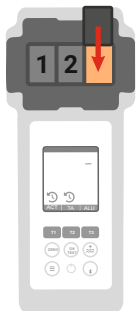


**Reagents for your test
 (Refer to chapter in manual)**

26



27

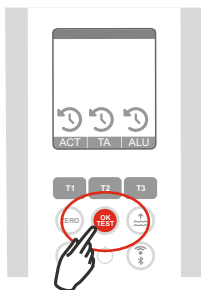


28



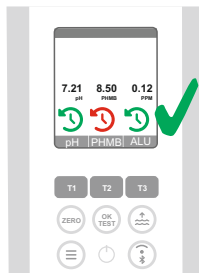
Starts Countdown !

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 tolerance values may be expected in the measurement result.



Sofern Sie vor Ablauf des jeweiligen Countdowns die TEST Taste drücken, wird der Countdown/die Uhr in der Farbe grün angezeigt.

Sollten Sie etwas länger brauchen als die empfohlene Zeit, ändert sich die Farbe des Countdowns zu rot. In diesem Fall kann es sein, dass im Messergebnis höhere Toleranzwerte zu erwarten sind.



En caso de pulsar el botón TEST antes de que finalice la cuenta atrás, la cuenta atrás/reloj se muestra en verde.

Si necesita más tiempo del recomendado, el color de la cuenta atrás cambia a rojo. En este caso, se pueden esperar valores de tolerancia más altos en el resultado de la medición.



Lorsque vous appuyez sur la touche TEST avant la fin du compte à rebours, le compte à rebours/l'horloge s'affiche en vert.

Si vous mettez un peu plus de temps que le temps recommandé, la couleur du compte à rebours passe au rouge. Dans ce cas, il se peut que le résultat de la mesure présente des valeurs de tolérance plus élevées.



In caso di pressione del pulsante TEST prima della fine del conto alla rovescia, il conto alla rovescia/orologio viene visualizzato in verde.

Se è necessario un tempo superiore a quello consigliato, il colore del conto alla rovescia diventa rosso. In questo caso, si possono prevedere valori di tolleranza più elevati nel risultato della misurazione.

ZERO

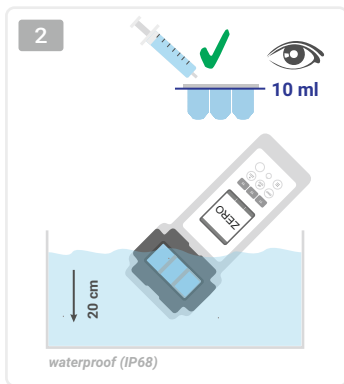
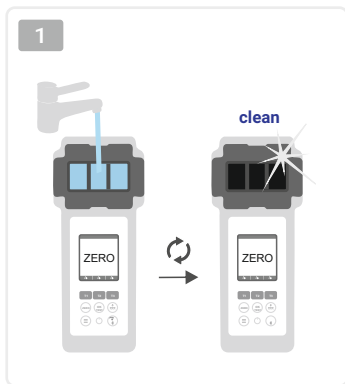
The ZERO step must only be carried out once after switching on and not necessarily before each following measurement.

Der ZERO Schritt muss nur 1 x nach dem Einschalten und nicht zwingend vor jeder dann folgenden Messung durchgeführt werden.

El paso a ZERO sólo debe realizarse una vez tras el encendido y no necesariamente antes de cada medición posterior.

L'étape ZERO ne doit être effectuée qu'une seule fois après la mise en marche et pas obligatoirement avant chaque mesure suivante.

La fase ZERO deve essere eseguita solo una volta dopo l'accensione e non necessariamente prima di ogni misura successiva.



3



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

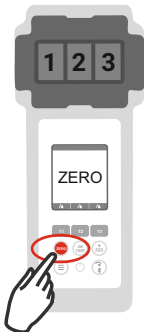
4



ZERO



5



6





**Only 1 time per test batch**

The "ZERO" step (page 42) 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.

**Nur ein Mal pro Testreihe**

Der „ZERO“-Schritt (Seite 42) ist nur 1x nach dem Einschalten notwendig. Achten Sie darauf, dass beim „ZERO“ das zu messende Wasser in der Küvette keine (!) Tablette/Reagenz enthält und der Lichtschutzdeckel aufgesetzt ist. ZERO bitte immer mit dem zu messenden Poolwasser durchführen.

**Sólo una vez por lote de prueba**

El paso "ZERO" (página 42) sólo es necesario una vez después de la conexión. Asegúrese de que el agua que se va a medir no contiene ninguna (!) tableta/reactivo en la cubeta y que la tapa de protección contra la luz está colocada. Realice siempre el CERO con el agua de la piscina a medir.

**Une seule fois par lot de test**

L'étape "ZERO" (page 42) n'est nécessaire qu'une seule fois après la mise en marche. Lors du "ZERO", veillez à ce que l'eau à mesurer dans la cuvette ne contienne pas (!) de pastille/réactif et que le couvercle de protection contre la lumière soit en place. Veuillez toujours effectuer le ZERO avec l'eau de la piscine à mesurer.

**Solo una volta per test in batch**

Il passo "ZERO" (pagina 42) è necessario solo una volta dopo l'accensione. Assicurarsi che l'acqua da misurare non contenga alcuna (!) compressa/reagente nella cuvetta e che il coperchio di protezione dalla luce sia al suo posto. Eseguire sempre lo ZERO con l'acqua della piscina da misurare.

OR
↑

30.0

10.0

0.0

Active Oxygen (MPS)
Aktivsauerstoff (MPS)
Oxígeno Activo (MPS)
Oxygène Actif (MPS)
Ossigeno Attivo (MPS)

1-ACT

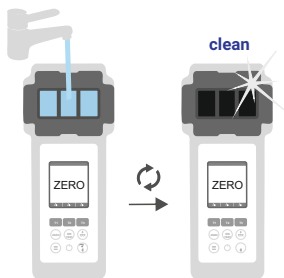
0.0 – 30.0 ppm (mg/l) MPS

DPD N°4 Photometer*

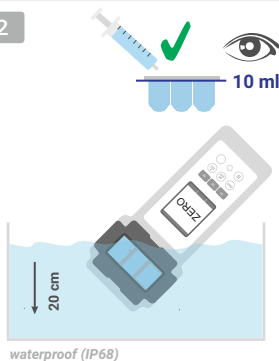
*not part of standard equipment

1

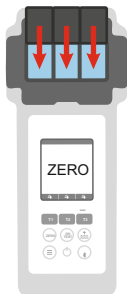
1...4 → Page 42



2



3



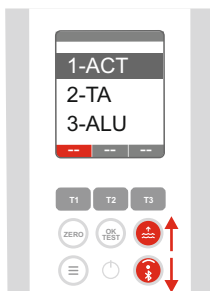
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

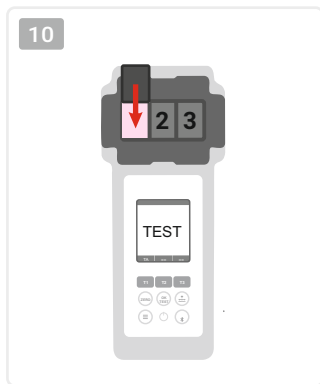
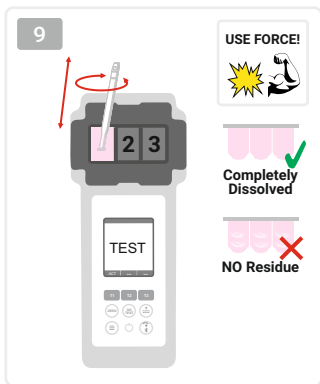
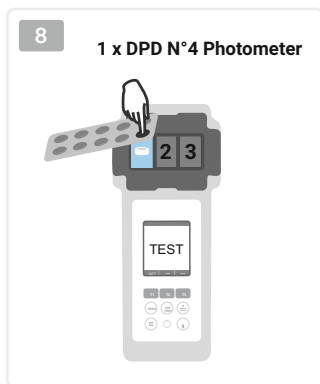
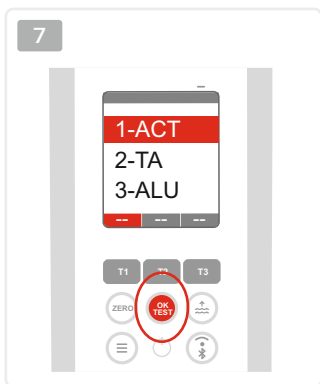
23-QUAT

24-SULF

25-TH

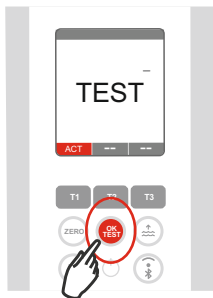
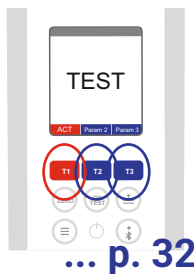
26-UREA

27-ZINC



11

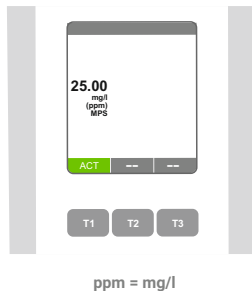
If single parameter:

If multiple parameters:
See page 32

12



13



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

Alkalinity (M)
Alkalität (M)
Alcalinidad (M)
Alcalinité (M)
Alcalinità (M)

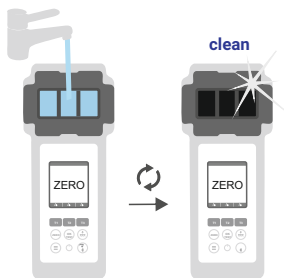
2-TA

0 – 200 ppm (mg/l) CaCO_3

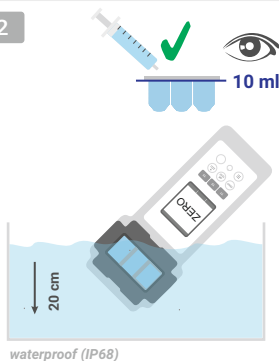
Alkalinity-M Photometer

1

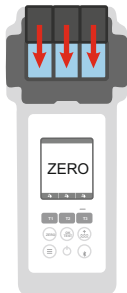
1...4 → Page 42



2



3



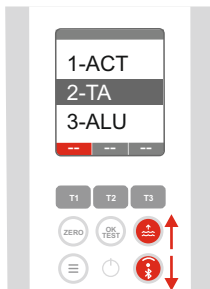
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

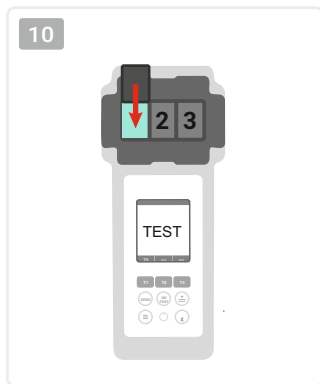
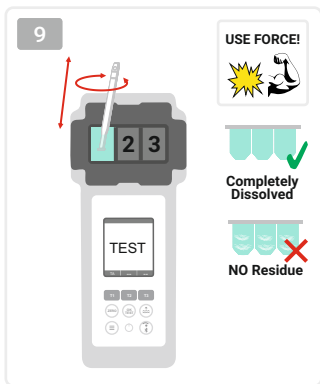
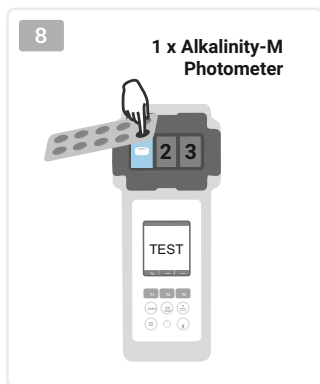
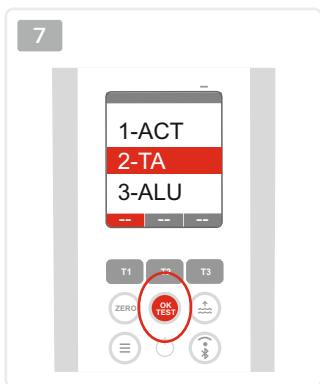
23-QUAT

24-SULF

25-TH

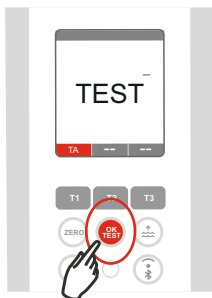
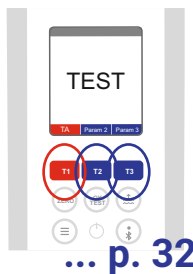
26-UREA

27-ZINC



11

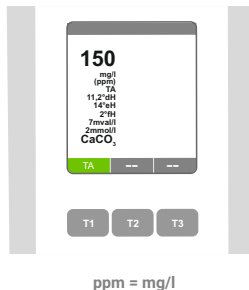
If single parameter:

If multiple parameters:
See page 32

12



13



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

0.30

0.15

0.00



ONLY SINGLE (p. 21)

Aluminium
Aluminium
Aluminio
Aluminium
Alluminio

3-ALU

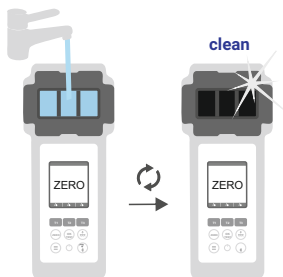
0.00 – 0.30 ppm (mg/l) Al

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

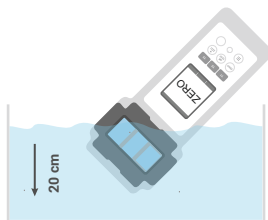
*not part of standard equipment

1

1...4 → Page 42

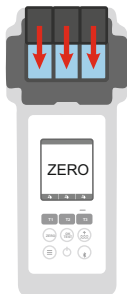


2



waterproof (IP68)

3



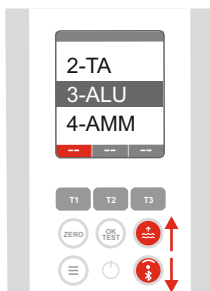
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

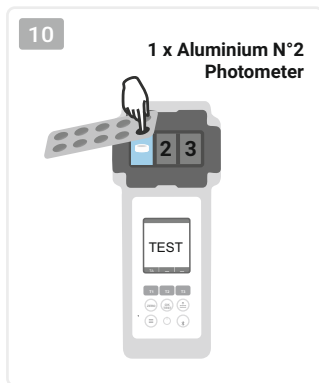
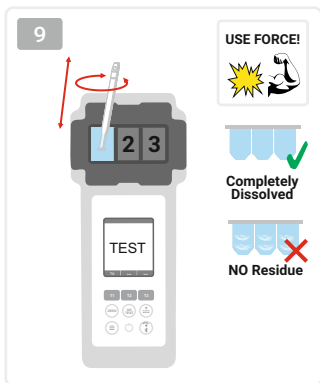
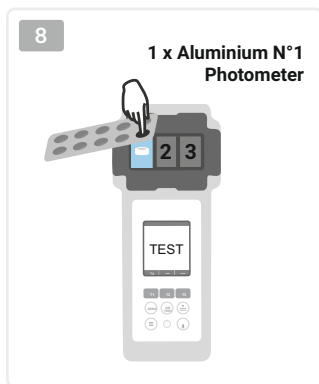
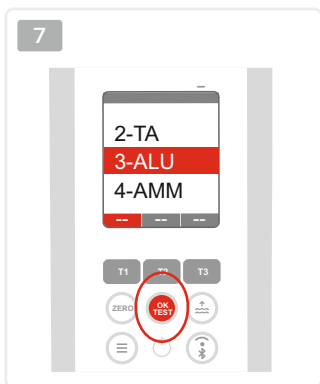
23-QUAT

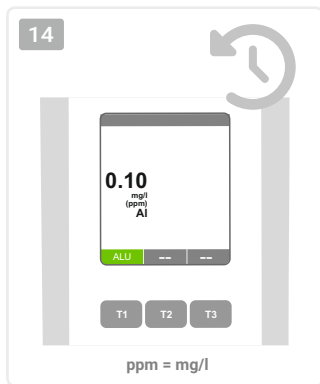
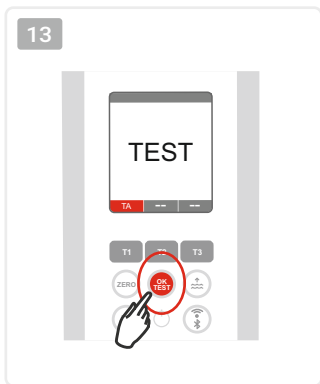
24-SULF

25-TH

26-UREA

27-ZINC





- 1-ACT
- 2-TA
- 3-ALU**
- 4-AMM
- 5-BRO
- 6-CH
- 7-CLA
- 8-CL
- 9-CLHR
- 10-CLO2
- 11-CU
- 12-CYA
- 13-HYDL
- 14-HYDH
- 15-IRON
- 16-NTRA
- 17-OZON
- 18-PH
- 19-PHMB
- 20-PPLR
- 21-PPHR
- 22-POT
- 23-QUAT
- 24-SULF
- 25-TH
- 26-UREA
- 27-ZINC



ONLY SINGLE (p. 21)

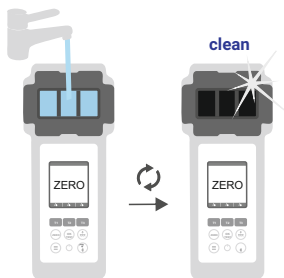
Ammonia Ammoniak Amonio Ammoniak Ammonio

4-AMM**0.00 – 1.20 ppm (mg/l) NH_4^+** Ammonia N°1 Powder Pillow*
Ammonia N°2 Powder Pillow*

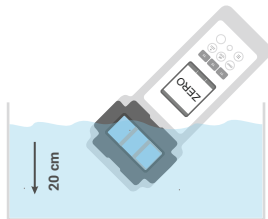
*not part of standard equipment

1

1...4 → Page 42

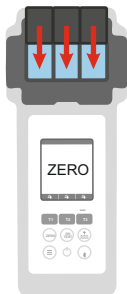


2



waterproof (IP68)

3



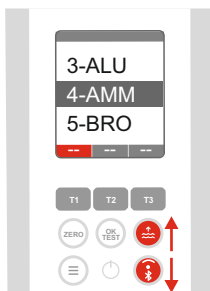
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

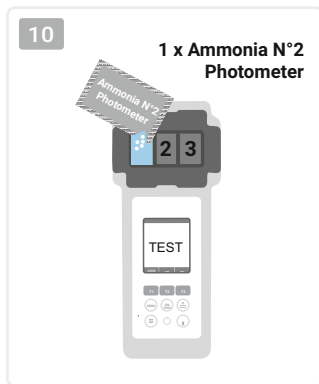
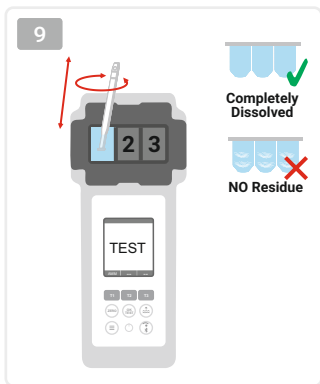
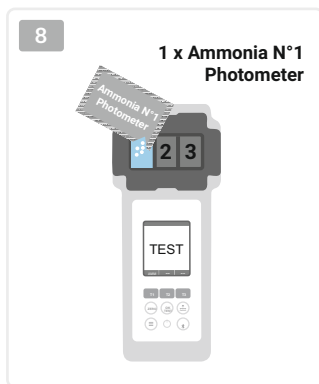
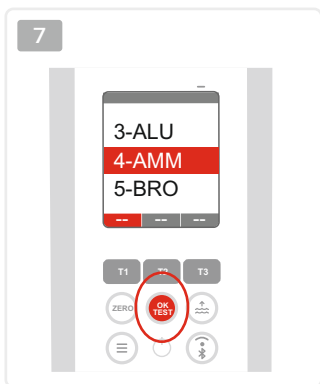
23-QUAT

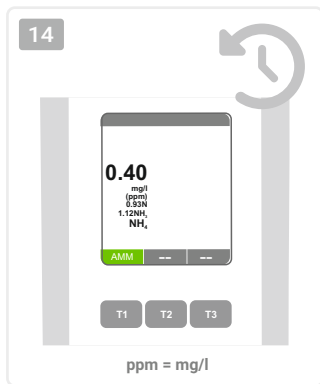
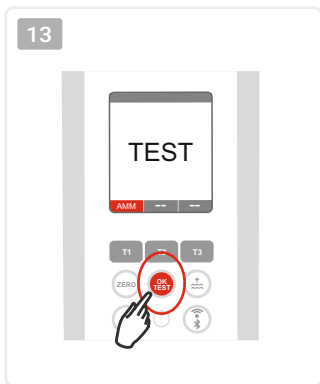
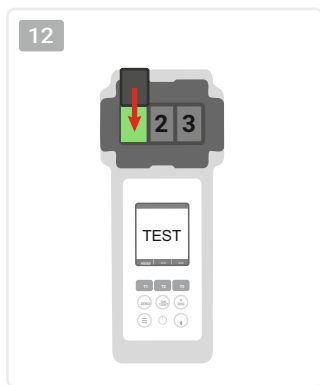
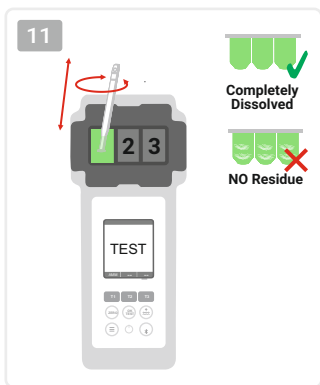
24-SULF

25-TH

26-UREA

27-ZINC





- 1-ACT
- 2-TA
- 3-ALU
- 4-AMM**
- 5-BRO
- 6-CH
- 7-CLA
- 8-CL
- 9-CLHR
- 10-CLO2
- 11-CU
- 12-CYA
- 13-HYDL
- 14-HYDH
- 15-IRON
- 16-NTRA
- 17-OZON
- 18-PH
- 19-PHMB
- 20-PPLR
- 21-PPHR
- 22-POT
- 23-QUAT
- 24-SULF
- 25-TH
- 26-UREA
- 27-ZINC

Bromine Brom Bromo Brome Bromo

5-BRO

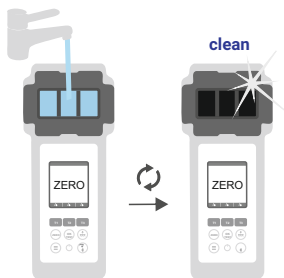
Tablet Mode:

0.00 – 18.00 ppm (mg/l) Br₂
DPD N°1 Photometer Tablet
Glycine*

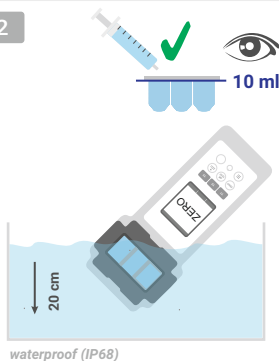
Liquid Mode:

0.00 – 9.00 ppm (mg/l) Br₂
DPD 1A + DPD 1B Liquid*
Glycine*

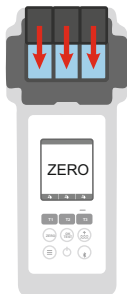
1 1...4 → Page 42



2



3



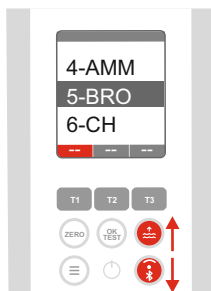
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

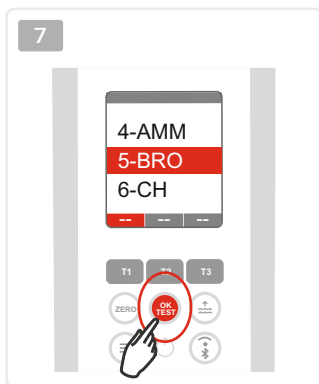
23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



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".



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.



Sólo cuando la muestra de agua contiene Bromo y cloro (se han utilizado ambos desinfectantes), debe ser aplicado el método "A" usando la tableta de glicina. Si la muestra contiene únicamente Bromo y no contiene cloro, por favor seguir el método "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».



Solo quando il campione di acqua contiene Bromo e cloro (entrambi disinfettanti vengono usati), deve essere utilizzato il metodo "A" e la pasticca Glycine deve essere applicata. Se il campione contiene solo Bromo e non contiene cloro, si prega la procedura metodo "B".

A**With Chlorine | Mit Chlor | Con Cloro | Avec Du Chlore | Con il Cloro****8A****1 x Glycine****9A****USE FORCE!****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!****NO Residue**

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

B Without Chlorine | Ohne Chlor | Sin Cloro | Sans Chlore | Senza Cloro

8B

Tablet or Liquid? (p.16)

-  1 x DPD N°1 Photometer
-  3 x DPD 1A + 3 x DPD 1B



9B

USE FORCE!




Completely
Dissolved


NO Residue

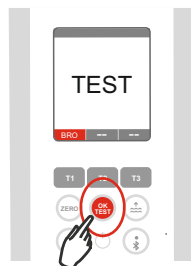


12A 10B

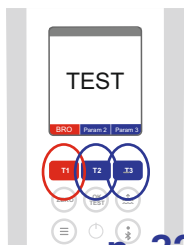


13A 11B

If single parameter:



If multiple parameters:
See page 32

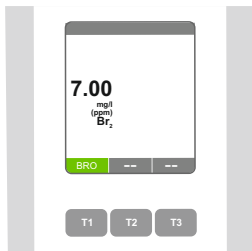


... p. 32

14A 12B



15A 13B



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR



500

+

+

+

+

250

+

+

+

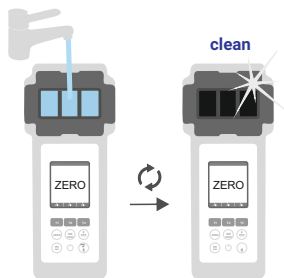
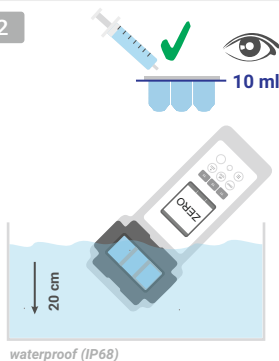
+

0

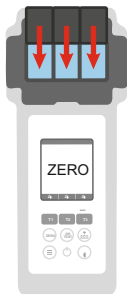
Calcium Hardness Kalziumhärte Durezza del calcio Dureté du calcium Durezza del calcio

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 42****2**

3



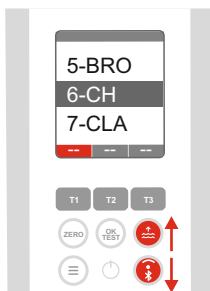
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

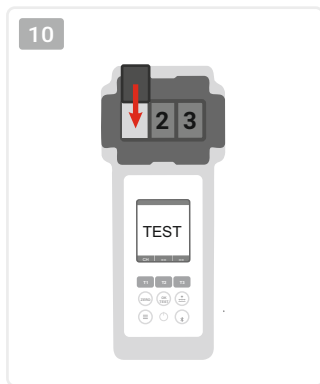
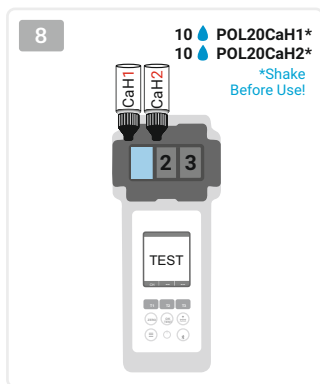
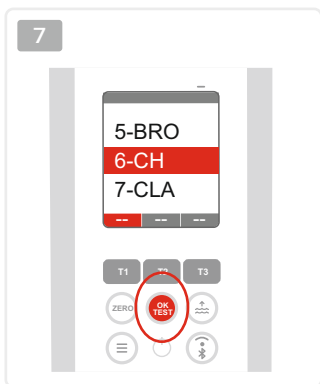
23-QUAT

24-SULF

25-TH

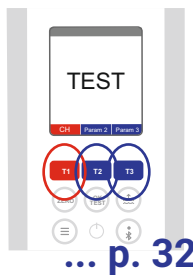
26-UREA

27-ZINC



11

If single parameter:

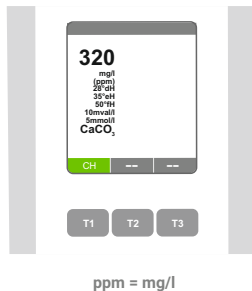
If multiple parameters:
See page 32

... p. 32

12



13



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

8.00

4.00

0.00

Chloramine Chloramin Cloramina Chloramine Cloramina

7-CLA

0.00 – 8.00 ppm (mg/l) fCl_2

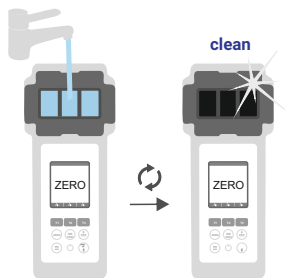


DPD N°1 Photometer
DPD N°2 Photometer*
DPD N°3 Photometer

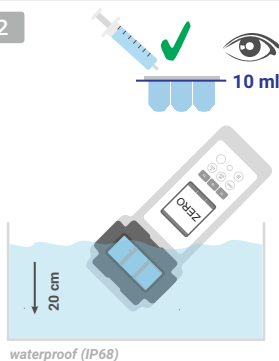
*not part of standard equipment

1

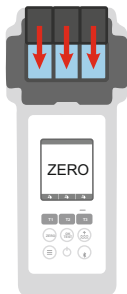
1...4 → Page 42



2



3



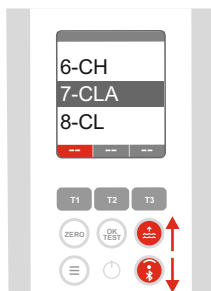
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

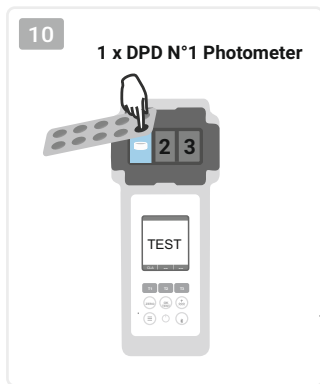
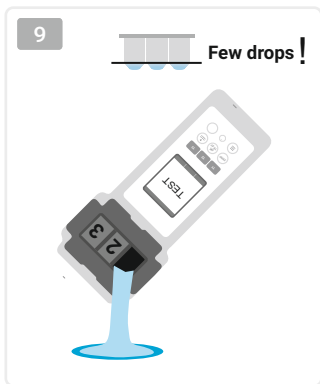
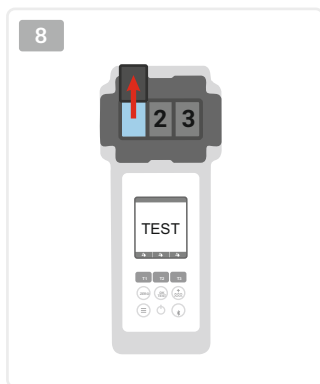
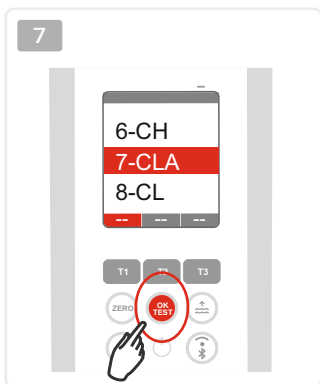
23-QUAT

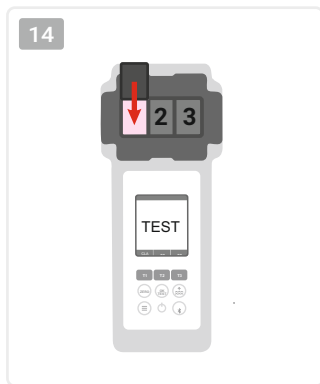
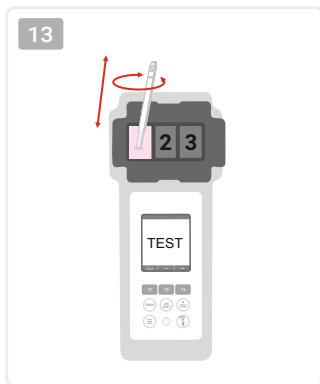
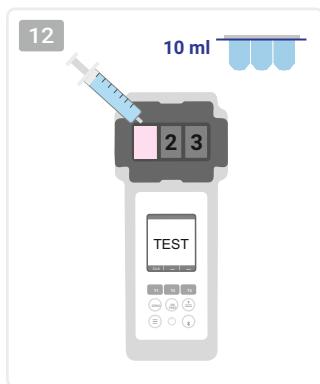
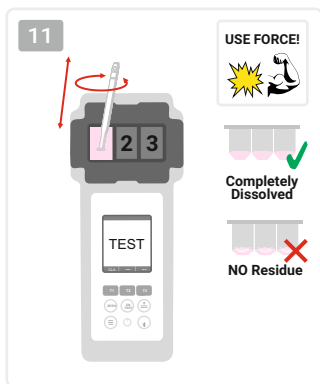
24-SULF

25-TH

26-UREA

27-ZINC





1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

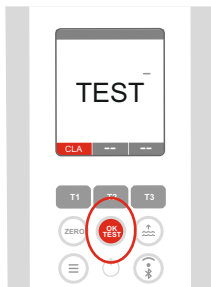
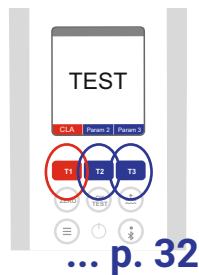
25-TH

26-UREA

27-ZINC

15

If single parameter:

If multiple parameters:
See page 32

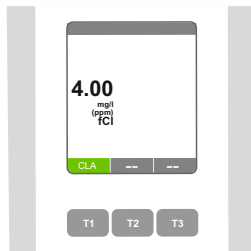
... p. 32

17



18

Mono-Chloramine →



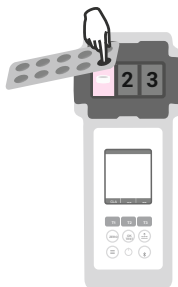
ppm = mg/l Free Chlorine

19

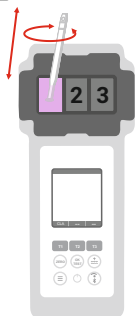


20

1 x DPD N°2 Photometer



21



USE FORCE!



Completely
Dissolved

NO Residue

22



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

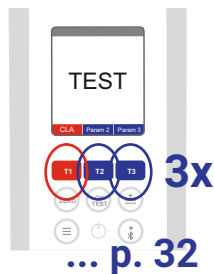
25-TH

26-UREA

27-ZINC

23

If single parameter:

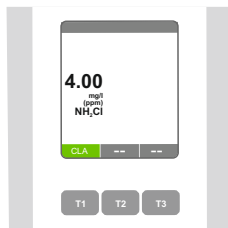
If multiple parameters:
See page 32

24



25

Di-Chloramine →



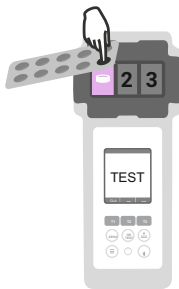
ppm = mg/l Mono-Chloramine

26



27

1 x DPD N°3 Photometer



28



USE FORCE!



29



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

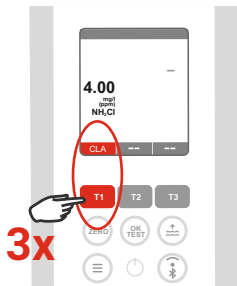
24-SULF

25-TH

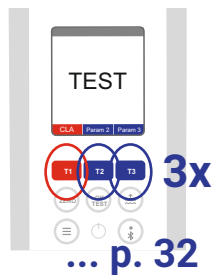
26-UREA

27-ZINC

30



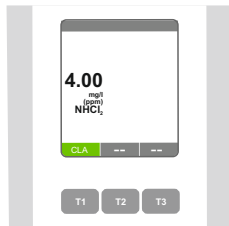
If multiple parameters:
See page 32



31



32



ppm = mg/l Di-Chloramine

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

Chlorine Chlor Cloro Chlore Cloro

8-CL



Tablet Mode:
0.00 – 6.00 ppm (mg/l) fCl_2
DPD N°1 Photometer
DPD N°3 Photometer

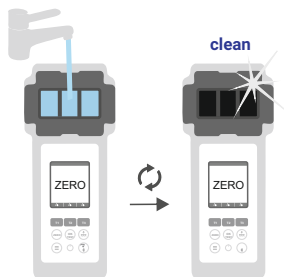


Liquid Mode:
0.00 – 4.00 ppm (mg/l) fCl_2
DPD 1A* + DPD 1B* +
DPD 3C* Liquid

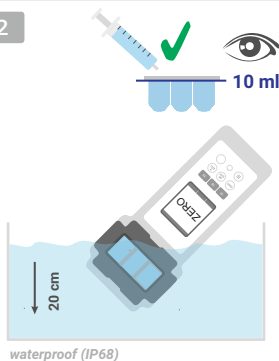
*not part of standard equipment

1

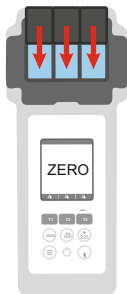
1...4 → Page 42



2



3



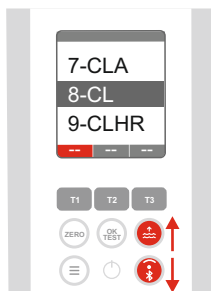
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

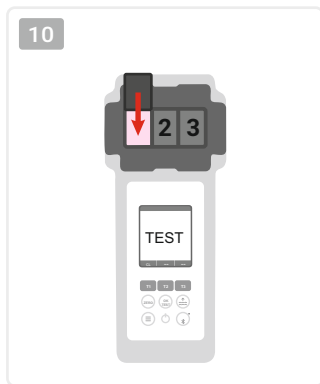
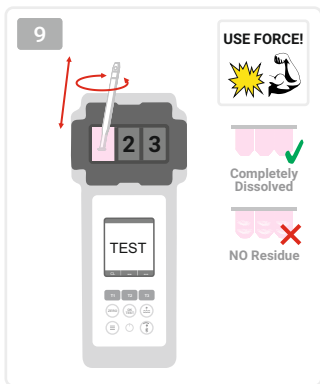
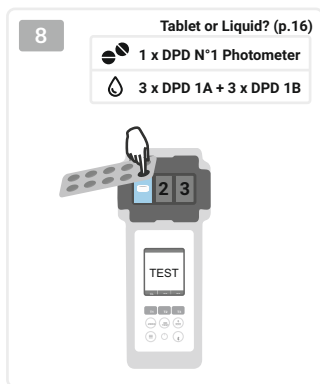
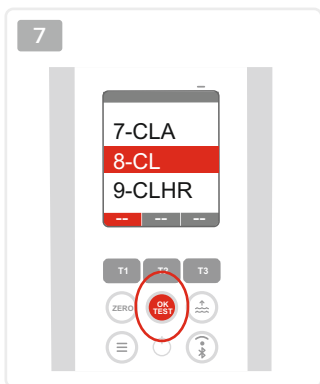
23-QUAT

24-SULF

25-TH

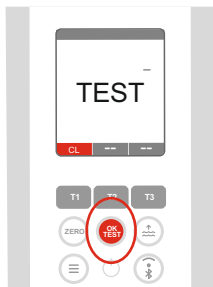
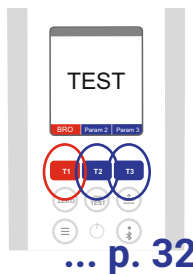
26-UREA

27-ZINC



11

If single parameter:

If multiple parameters:
See page 32

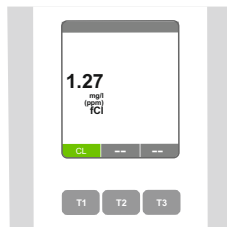
... p. 32

12



13

Total Chlorine →



ppm = mg/l Free Chlorine

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

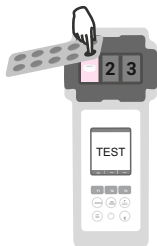
26-UREA

27-ZINC

14

Tablet or Liquid? (p. 16)

 1 x DPD N°3 Photometer
 3 x DPD 3C



15

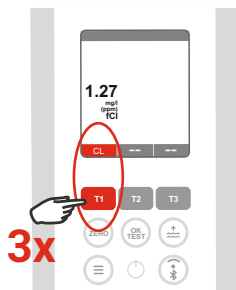
USE FORCE!



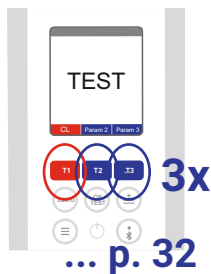
16



17



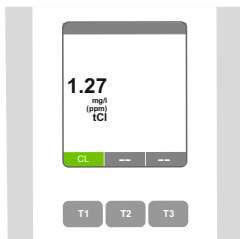
If multiple parameters:
See page 32



18



19



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

Chlorine (HR)
Chlor (HR)
Cloro (HR)
Chlore (HR)
Cloro (HR)

9-CLHR

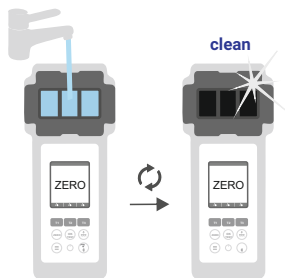
5 – 200 ppm (mg/l) Cl_2

☞ Chlorine HR (KI)*
Acidifying GP Powder Pillow*

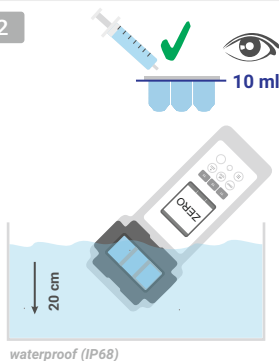
*not part of standard equipment

1

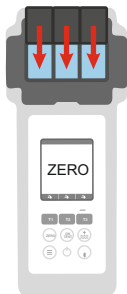
1...4 → Page 42



2



3



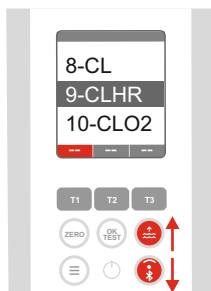
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

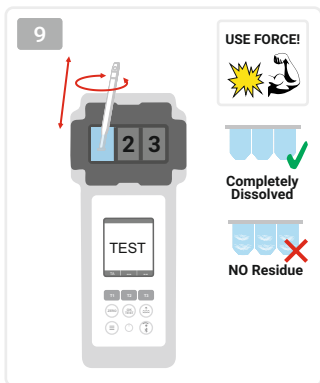
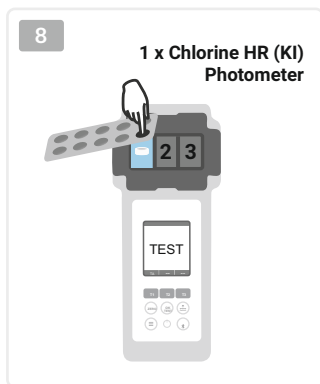
23-QUAT

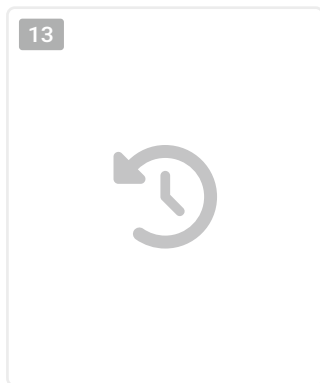
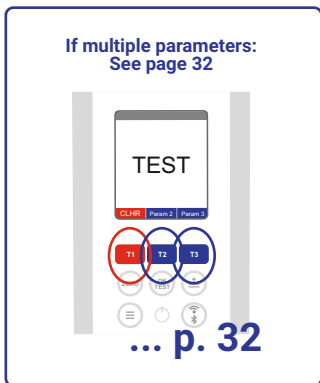
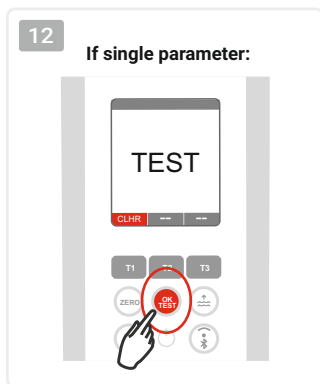
24-SULF

25-TH

26-UREA

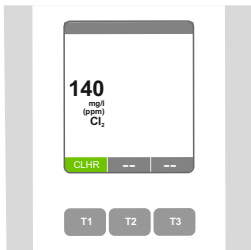
27-ZINC





- 1-ACT
- 2-TA
- 3-ALU
- 4-AMM
- 5-BRO
- 6-CH
- 7-CLA
- 8-CL
- 9-CLHR
- 10-CLO2
- 11-CU
- 12-CYA
- 13-HYDL
- 14-HYDH
- 15-IRON
- 16-NTRA
- 17-OZON
- 18-PH
- 19-PHMB
- 20-PPLR
- 21-PPHR
- 22-POT
- 23-QUAT
- 24-SULF
- 25-TH
- 26-UREA
- 27-ZINC

14



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

15.00

8.50

0.00

Chlorine Dioxide Chlordioxid Dióxido de cloro Dioxyde de chlore Biossido di cloro

10-ClO₂

OR
↑

7.50

3.00

0.00



Tablet Mode:

0.00 – 15.00 ppm (mg/l) ClO₂
DPD N°1 Photometer
Glycine*



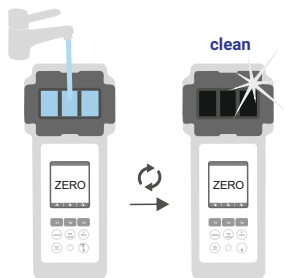
Liquid Mode:

0.00 – 7.50 ppm (mg/l) ClO₂
DPD 1A* + DPD 1B* Liquid
Glycine*

*not part of standard equipment

1

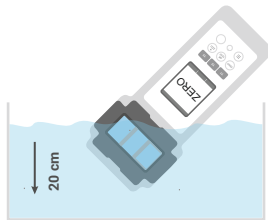
1...4 → Page 42



2

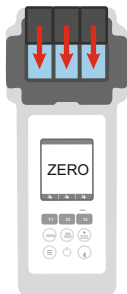


10 ml



waterproof (IP68)

3



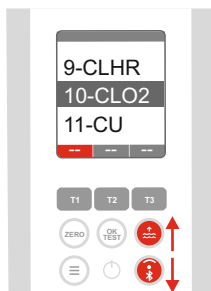
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

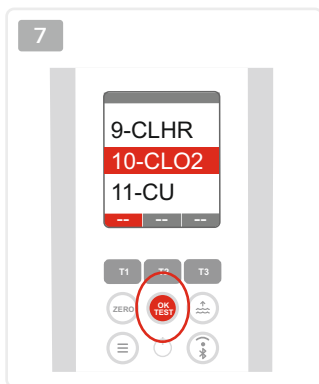
23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



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".



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.



Sólo cuando la muestra de agua contiene dióxido de cloro y cloro (se han utilizado ambos desinfectantes), debe ser aplicado el método "A" usando la tableta de glicina*. Si la muestra contiene únicamente dióxido de cloro y no contiene cloro, por favor seguir el método "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».



Solo quando il campione di acqua contiene biossido di cloro e cloro (entrambi disinfettanti vengono usati), deve essere utilizzato il metodo "A" e la pasticca Glycine* deve essere applicata. Se il campione contiene solo biossido di cloro e non contiene cloro, si prega la procedura metodo "B".

A**With Chlorine | Mit Chlor | Con Cloro | Avec Du Chlore | Con il Cloro****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**

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

B Without Chlorine | Ohne Chlor | Sin Cloro | Sans Chlore | Senza Cloro

8B

Tablet or Liquid? (p.16)

-  1 x DPD N°1 Photometer
-  3 x DPD 1A + 3 x DPD 1B



9B

USE FORCE!



 
Completely
Dissolved

 
NO Residue

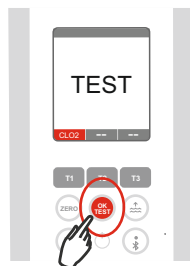


12A 10B

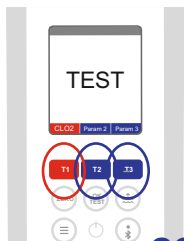


13A 11B

If single parameter:



If multiple parameters:
See page 32

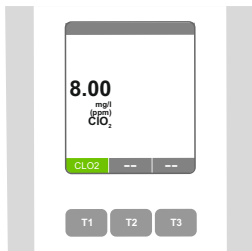


... p. 32

14A 12B



15A 13B



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

5.00

2.50

0.00

Copper Kupfer Cobre Cuivre Rame

11-CU

0.00 – 5.00 ppm (mg/l) fCu/tCu



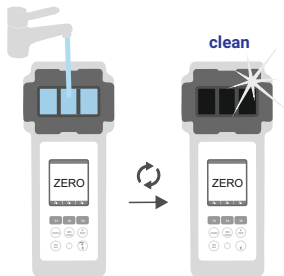
Copper N°1 Photometer*

Copper N°2 Photometer*

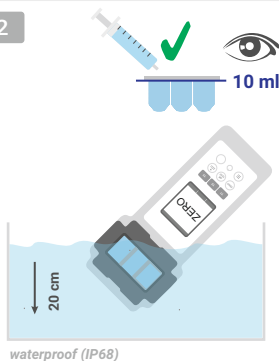
*not part of standard equipment

1

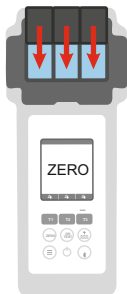
1...4 → Page 42



2



3



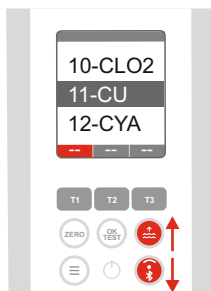
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

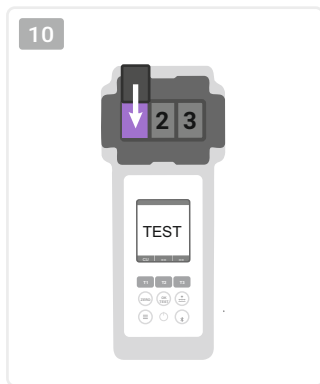
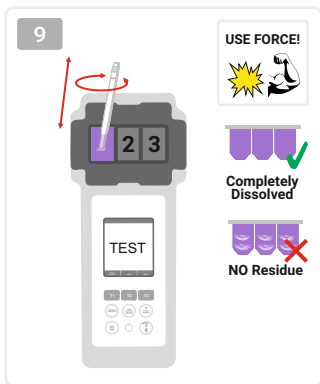
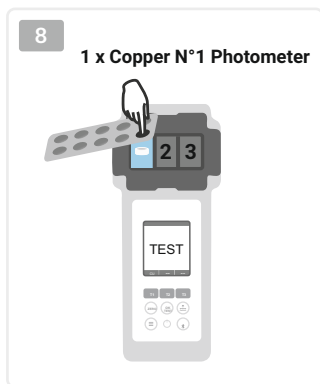
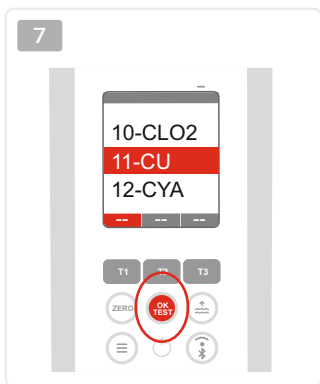
23-QUAT

24-SULF

25-TH

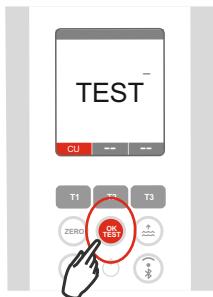
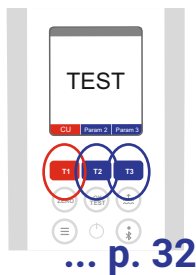
26-UREA

27-ZINC



11

If single parameter:

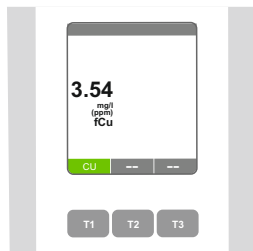
If multiple parameters:
See page 32

12



13

Total Copper →



ppm = mg/l Free Copper

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

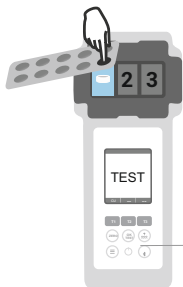
25-TH

26-UREA

27-ZINC

14

1 x Copper N°2 Photometer



15

USE FORCE!

Completely
Dissolved

NO Residue



16



17

3.54

mg/L
(ppm)
fCu

CU

T1

T2

T3

ZERO

OK TEST

↑

2000

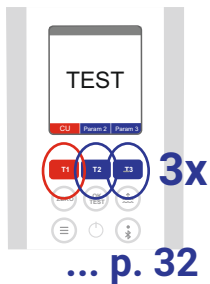
☰

⏻

⚙

3x

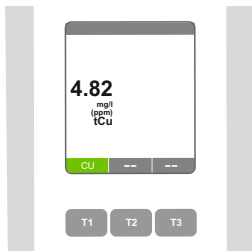
If multiple parameters:
See page 32



19



20



ppm = mg/l Total Copper

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

Cyanuric acid
Cyanursäure
Ácido cianúrico
Acide cyanurique
Acido cianurico

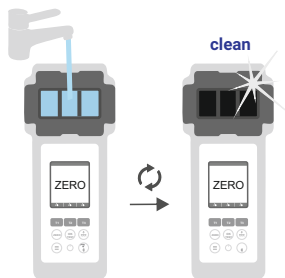
12-CYA

0 – 160 ppm (mg/l) CYA

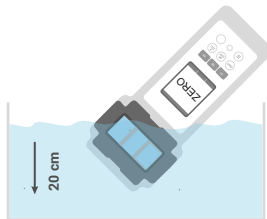
🔍 CYA Test Photometer

1

1...4 → Page 42

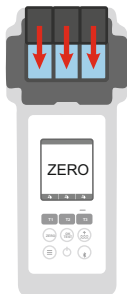


2



waterproof (IP68)

3



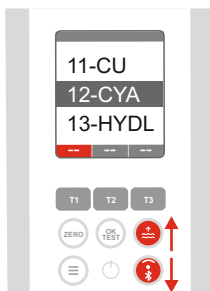
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

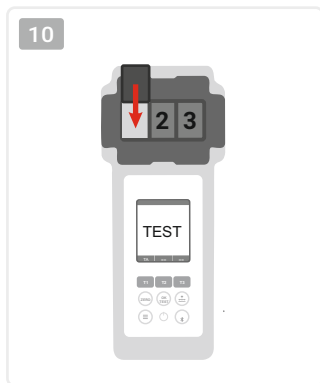
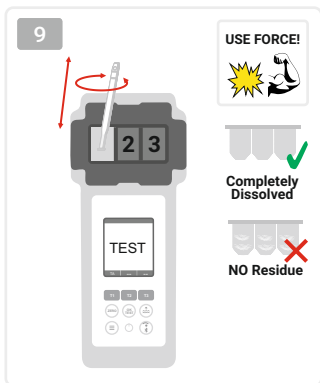
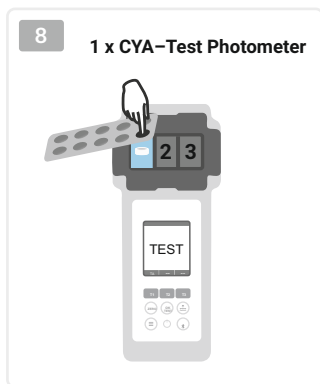
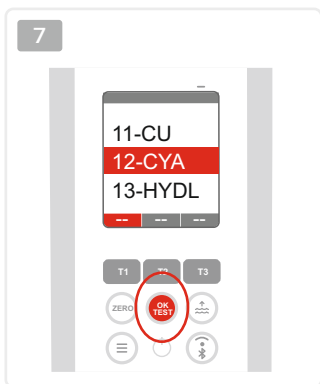
23-QUAT

24-SULF

25-TH

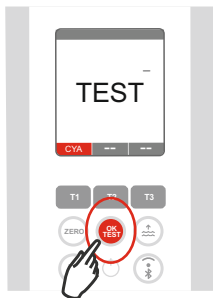
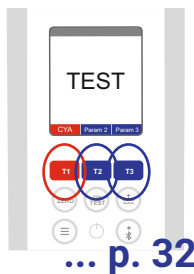
26-UREA

27-ZINC



11

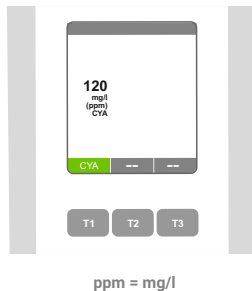
If single parameter:

If multiple parameters:
See page 32

12



13



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

2.90

1.45

0.00

Hydrogen Peroxide (LR)
Wasserstoffperoxid (LR)
Peróxido de hidrógeno (LR)
Peroxyde d'hydrogène (LR)
Perossido di idrogeno (LR)

13-HYDL

1

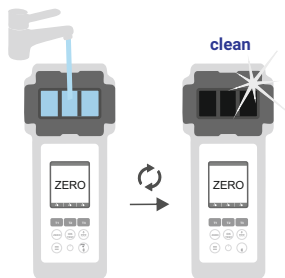
0.00 – 2.90 ppm (mg/l) H_2O_2

Hydr. Peroxide LR Photometer*

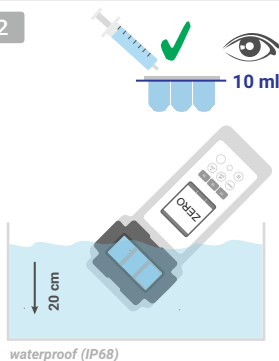
*not part of standard equipment

1

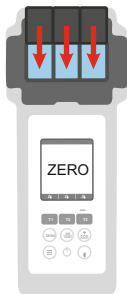
1...4 → Page 42



2



3



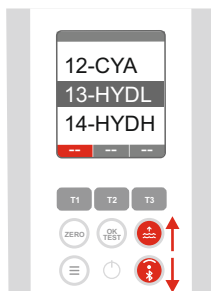
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

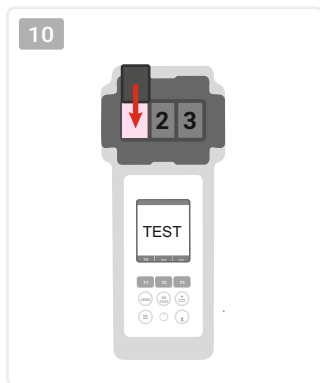
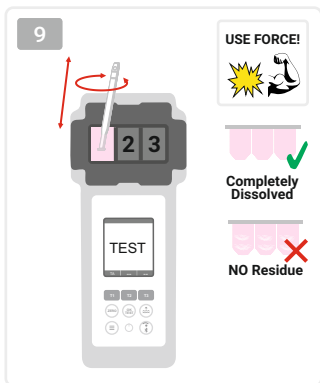
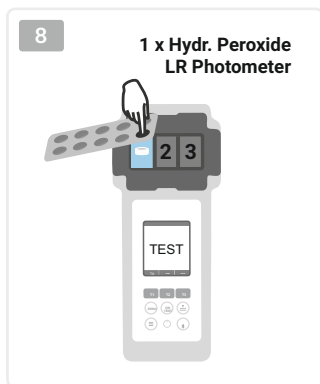
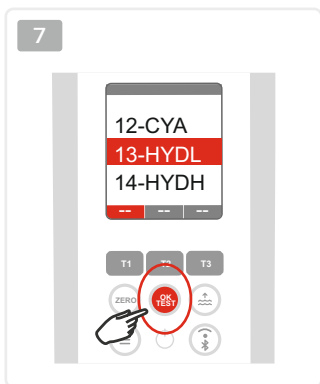
23-QUAT

24-SULF

25-TH

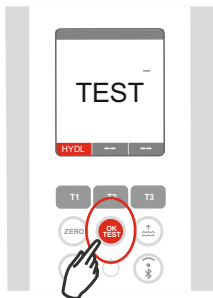
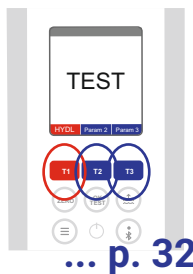
26-UREA

27-ZINC



11

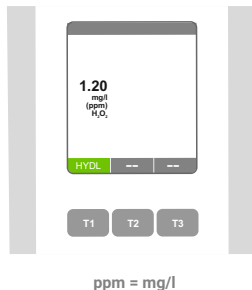
If single parameter:

If multiple parameters:
See page 32

12



13



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

Hydrogen Peroxide (HR)
Wasserstoffperoxid (HR)
Peróxido de hidrógeno (HR)
Peroxyde d'hydrogène (HR)
Perossido di idrogeno (HR)

14-HYDH

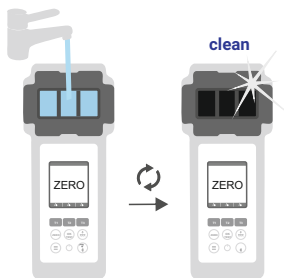
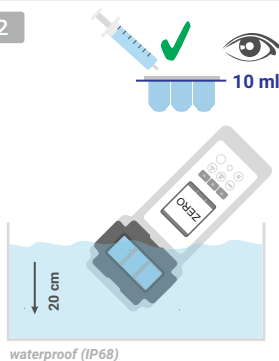
0 – 200 ppm (mg/l) H_2O_2

● Hydr. Peroxide HR Photometer*
● Acidifying PT*

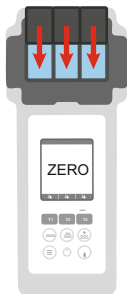
*not part of standard equipment

1

1...4 → Page 42

**2**

3



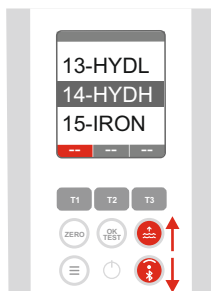
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

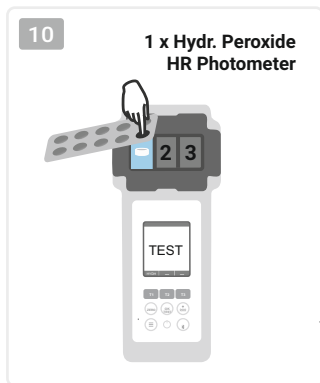
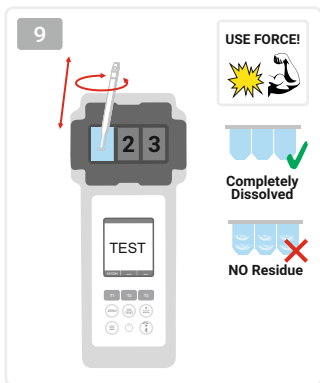
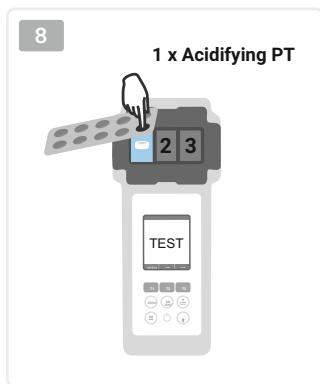
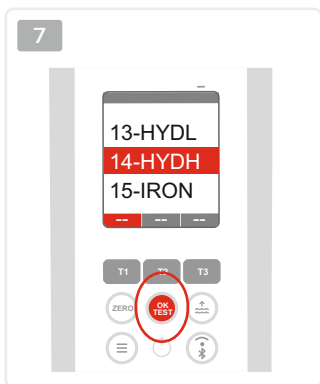
23-QUAT

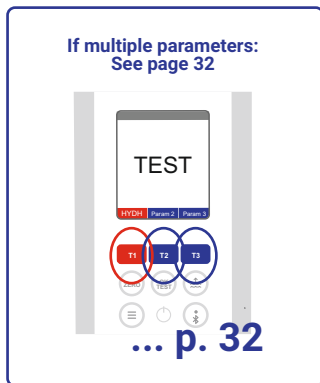
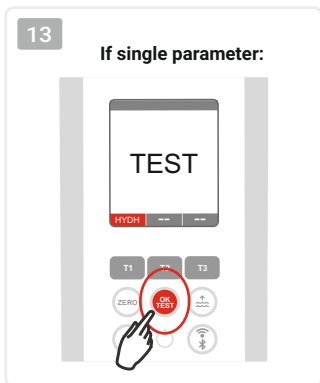
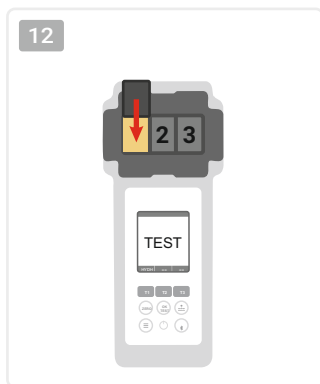
24-SULF

25-TH

26-UREA

27-ZINC



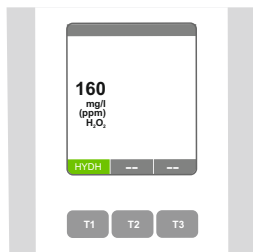


- 1-ACT
- 2-TA
- 3-ALU
- 4-AMM
- 5-BRO
- 6-CH
- 7-CLA
- 8-CL
- 9-CLHR
- 10-CLO2
- 11-CU
- 12-CYA
- 13-HYDL
- 14-HYDH
- 15-IRON
- 16-NTRA
- 17-OZON
- 18-PH
- 19-PHMB
- 20-PPLR
- 21-PPHR
- 22-POT
- 23-QUAT
- 24-SULF
- 25-TH
- 26-UREA
- 27-ZINC

14



15



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

1.00

0.50

0.00

Iron (LR)
Eisen (LR)
Hierro (LR)
Fer (LR)
Ferro (LR)



ONLY SINGLE (p. 21)

15-IRON

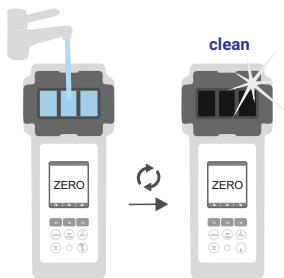
0.00 – 1.00 ppm (mg/l) $\text{Fe}^{2+}/\text{Fe}^{3+}$

 Iron LR Photometer*

*not part of standard equipment

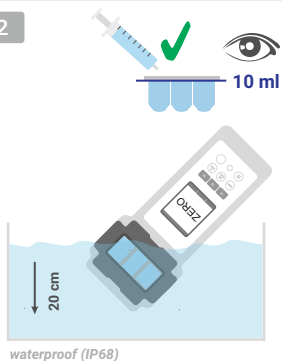
1

1...4 → Page 42



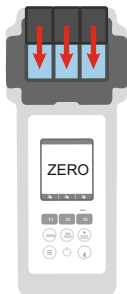
clean

2



waterproof (IP68)

3



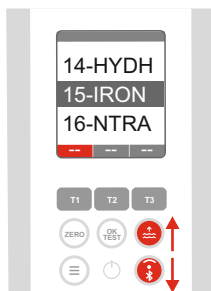
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

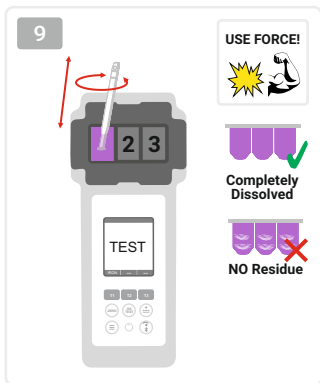
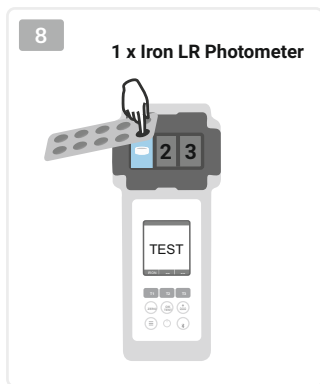
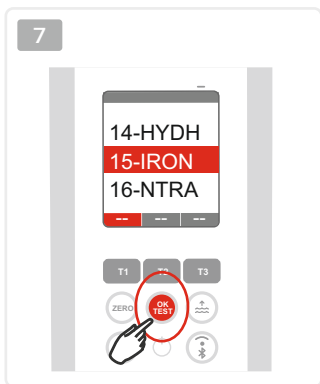
23-QUAT

24-SULF

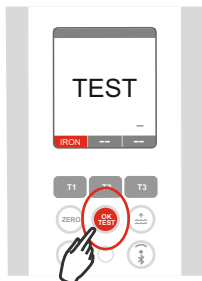
25-TH

26-UREA

27-ZINC



11



12



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

100

50

1

Nitrate
Nitrat
Nitrato
Nitrate
Nitrato



ONLY SINGLE (p. 21)

16-NTRA

1 – 100 ppm (mg/l) NO_3^-

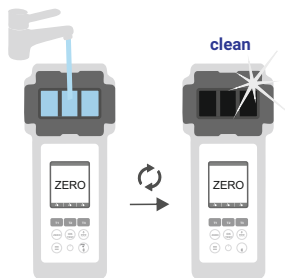
Nitrate N°1 Photometer Powder Pillow*

Nitrate N°2 Photometer Powder Pillow*

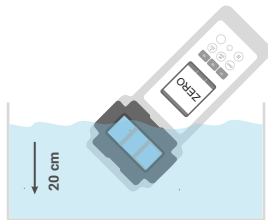
*not part of standard equipment

1

1...4 → Page 42

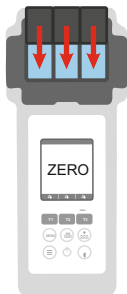


2



waterproof (IP68)

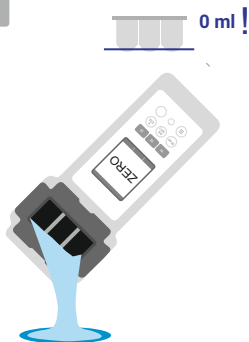
3



4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

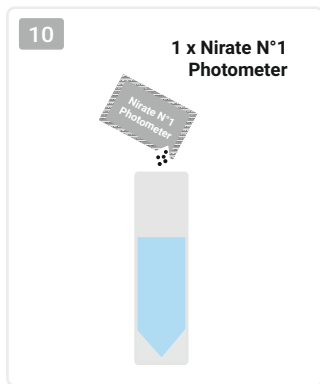
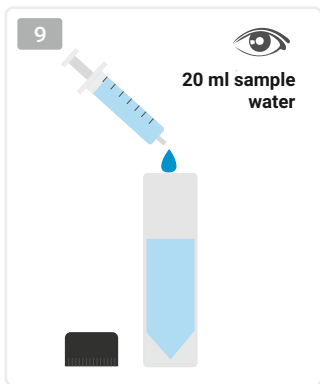
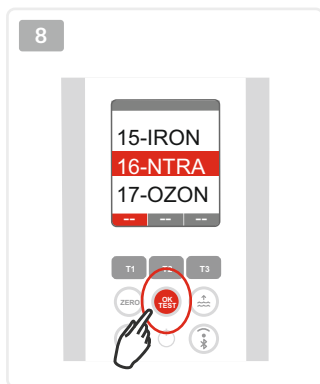
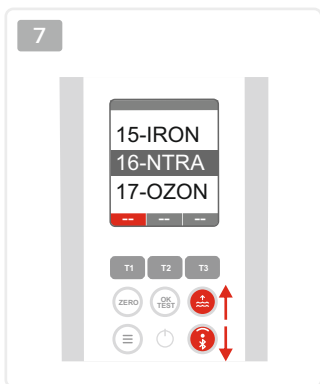
23-QUAT

24-SULF

25-TH

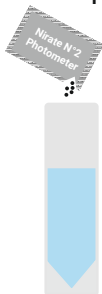
26-UREA

27-ZINC



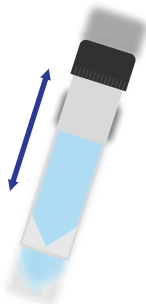
11

1 x Nirate N°2
Photometer



12

00:15

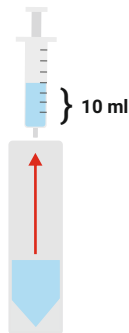


13



10:00 min

14



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

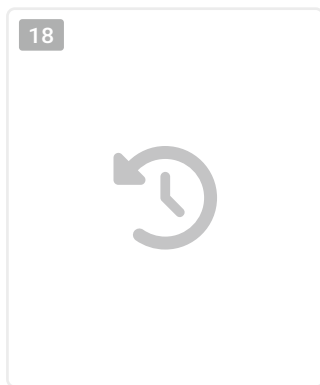
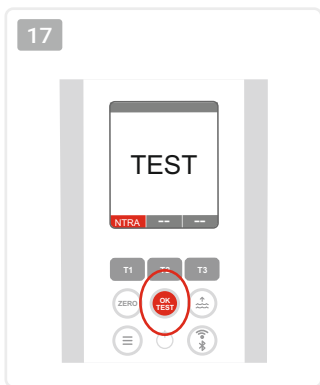
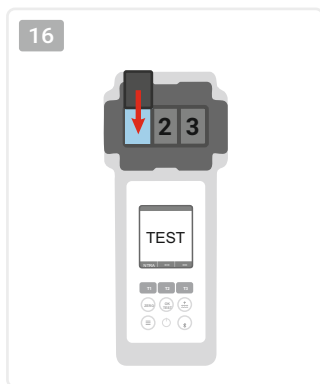
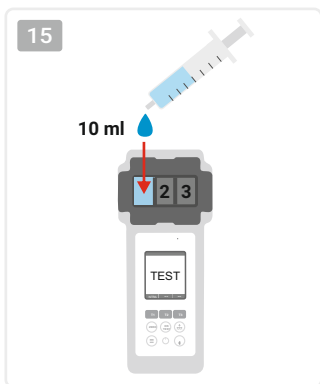
23-QUAT

24-SULF

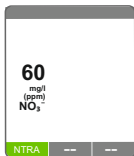
25-TH

26-UREA

27-ZINC



19



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

5.40

2.50

0.00

Ozone
Ozon
Ozono
Ozone
Ozono

17-OZONOR
↑

2.70

1.30

0.00

Tablet Mode:

0.00 – 5.40 ppm (mg/l) O_3
DPD N°1 Photometer
DPD N°3 Photometer
Glycine*

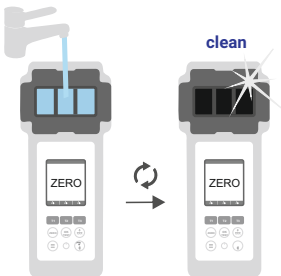
Liquid Mode:

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

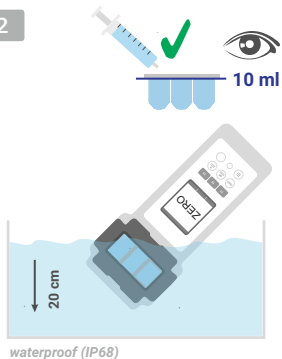
*not part of standard equipment

1

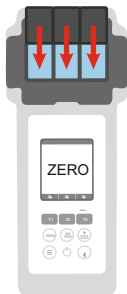
1...4 → Page 42



2



3



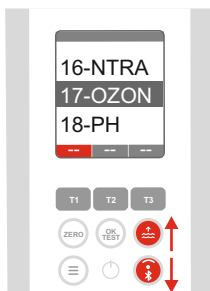
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

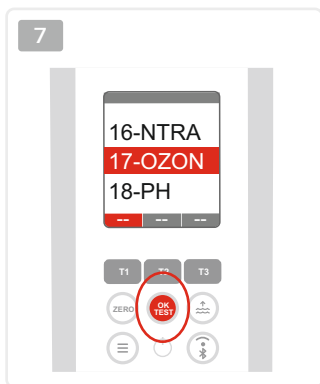
23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



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".



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.



Sólo cuando la muestra de agua contiene Ozono y cloro (se han utilizado ambos desinfectantes), debe ser aplicado el método "B" usando la tableta de glicina*. Si la muestra contiene únicamente Ozono y no contiene cloro, por favor seguir el método "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».



Solo quando il campione di acqua contiene Ozono e cloro (entrambi disinfettanti vengono usati), deve essere utilizzato il metodo "B" e la pasticca Glycine* deve essere applicata. Se il campione contiene solo Ozono e non contiene cloro, si prega la procedura metodo "A".

A**Without Chlorine | Ohne Chlor | Sin Cloro | Sans Chlore | Senza Cloro****8A****Tablet or Liquid? (p.16)**

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



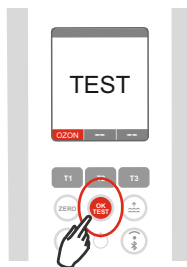
3 x DPD 1A + 3 x DPD 1B +
3 x DPD 3C Liquid

**9A****USE FORCE!**

Completely Dissolved



NO Residue

10A**11A****If single parameter:**

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

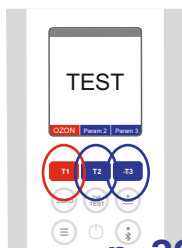
24-SULF

25-TH

26-UREA

27-ZINC

If multiple parameters:
See page 32

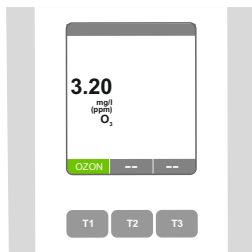


... p. 32

12A



13A



ppm = mg/l

B**With Chlorine | Mit Chlor | Con Cloro | Avec Du Chlore | Con il Cloro****8B****Tablet or Liquid? (p.16)**

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

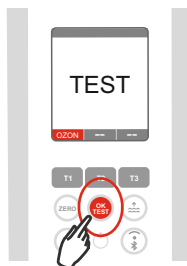


3 x DPD 1A + 3 x DPD 1B +
3 x DPD 3C Liquid

**9B****USE FORCE!**

Completely
Dissolved

NO Residue

10B**11B****If single parameter:**

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

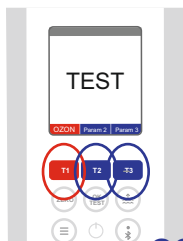
25-TH

26-UREA

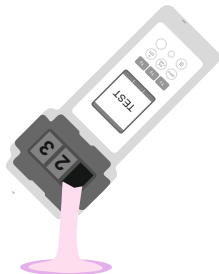
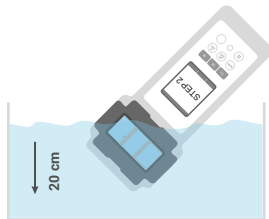
27-ZINC

B**With Chlorine | Mit Chlor | Con Cloro | Avec Du Chlore | Con il Cloro**

If multiple parameters:
See page 32



... p. 32

12B**13B****14B**

waterproof (IP68)

15B

1 x Glycine



16B

USE FORCE!



Completely Dissolved



NO Residue

17B

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



18B

USE FORCE!



Completely Dissolved



NO Residue

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

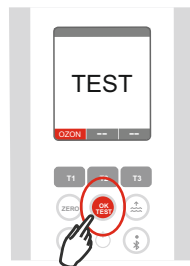
27-ZINC

19B

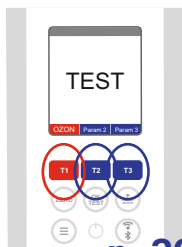


20B

If single parameter:



If multiple parameters:
See page 32

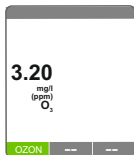


... p. 32

21B



22B



T1

T2

T3

ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

8.40

7.30

6.50

pH

18-PH



Tablet Mode:
6.50 – 8.40 ppm (mg/l) pH
Phenol Red Photometer

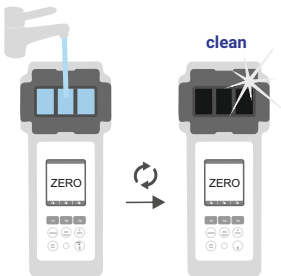


Liquid Mode:
6.50 – 8.40 ppm (mg/l) pH
Phenol Red Liquid*

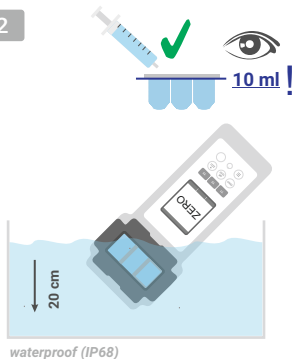
*not part of standard equipment

1

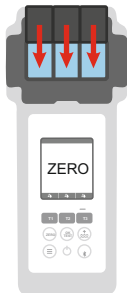
1...4 → Page 42



2



3



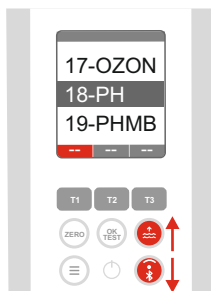
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

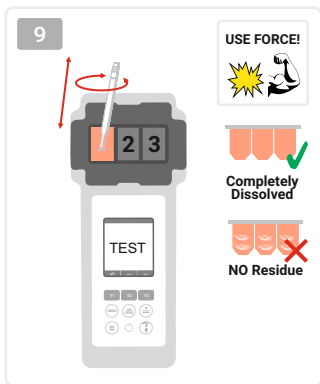
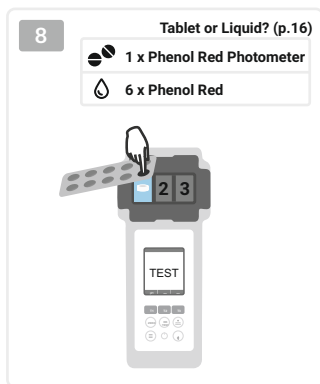
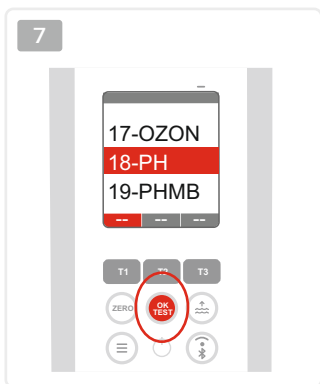
23-QUAT

24-SULF

25-TH

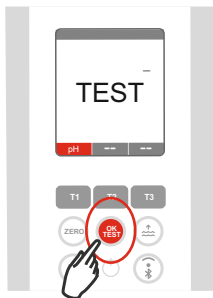
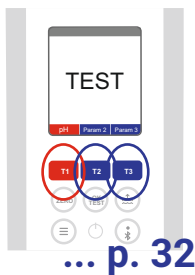
26-UREA

27-ZINC



11

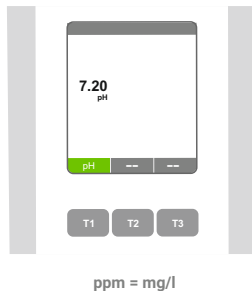
If single parameter:

If multiple parameters:
See page 32

12



13



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



The Total Alkalinity value has to be minimum 50 mg/l to obtain a correct pH value.



Der Alkalinitätswert muss mindestens 50 mg/l betragen, um eine korrekte pH Messung durchzuführen.



El valor de alcalinidad debe ser superior a 50 mg/l para obtener un pH correcto.



La valeur totale de l'alcalinité doit être au minimum de 50 mg/l pour obtenir une valeur de pH correcte.



Il valore di alcalinità deve essere superiore a 50 mg/l per ottenere un pH corretto.

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR



60

35

5



UR

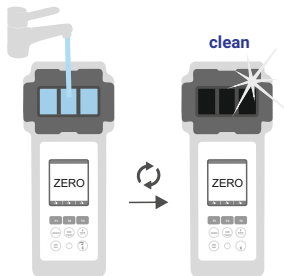
PHMB

19-PHMB**5 – 60 ppm (mg/l) PHMB** PHMB Photometer*

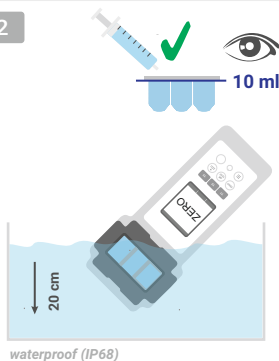
*not part of standard equipment

1

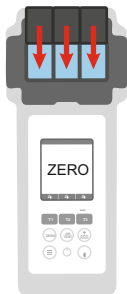
1...4 → Page 42



2



3



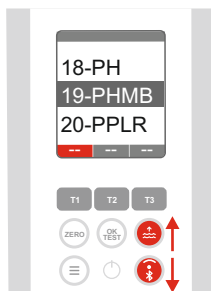
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

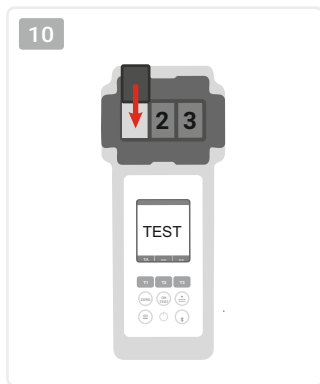
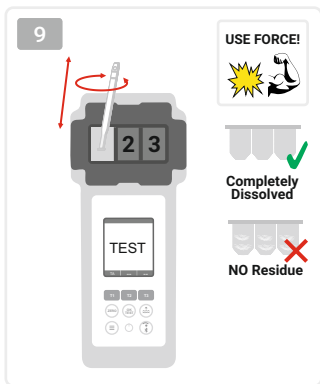
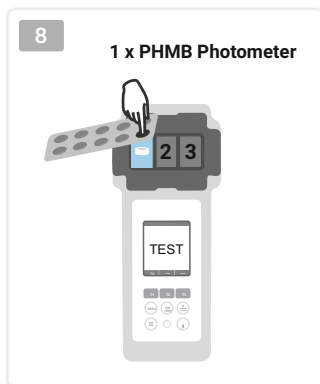
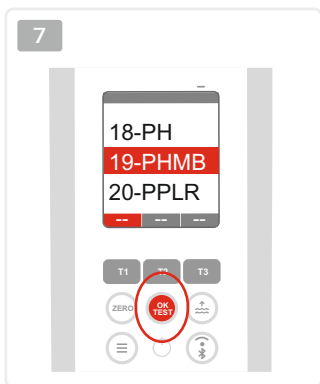
23-QUAT

24-SULF

25-TH

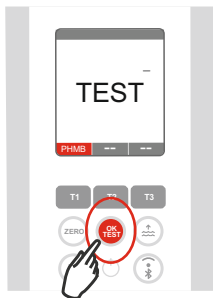
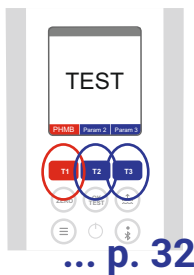
26-UREA

27-ZINC



11

If single parameter:

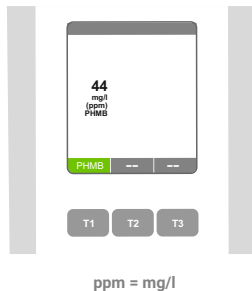
If multiple parameters:
See page 32

... p. 32

12



13



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



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.



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 Kalziumhärte-Werte ≤ 200 mg/l können zu Messwertabweichungen führen.



Es imprescindible que limpie a fondo con un cepillo los objetos utilizados para la medición y que hayan entrado en contacto con el agua de muestra que contiene el reactivo (cubeta, tapa, varilla de agitación). Use agua y después agua destilada, de lo contrario el equipo de medición puede volverse azul con el tiempo. Los valores de alcalinidad (M) ≤ 120 mg/l y los valores de dureza de calcio ≤ 200 mg/l pueden conducir a desviaciones de los valores medidos.



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.



È indispensabile pulire gli oggetti utilizzati per la misurazione e venire a contatto con l'acqua del campione contenente il reagente (cuvetta, coperchio, asta di agitazione) accuratamente con una spazzola, acqua e quindi con acqua distillata, altrimenti l'apparecchiatura di misurazione potrebbe diventare blu nel tempo. Valori di alcalinità (M) ≤ 120 mg/l e valori di durezza del calcio ≤ 200 mg/l possono portare a deviazioni del valore misurato.

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

4.00

2.00

0.00

Phosphate (LR)
Phosphat (LR)
Fosfato (LR)
Phosphate (LR)
Fosfato (LR)



ONLY SINGLE (p. 21)

20-PPLR

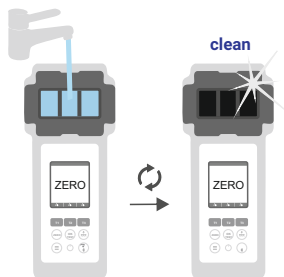
0.00 – 4.00 ppm (mg/l) PO_4^{3-}

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

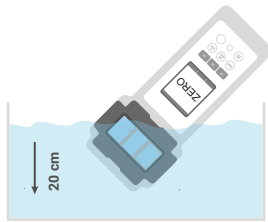
*not part of standard equipment

1

1...4 → Page 42

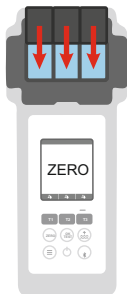


2



waterproof (IP68)

3



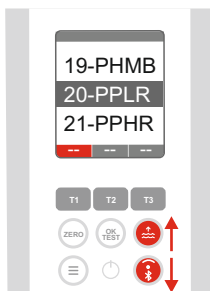
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

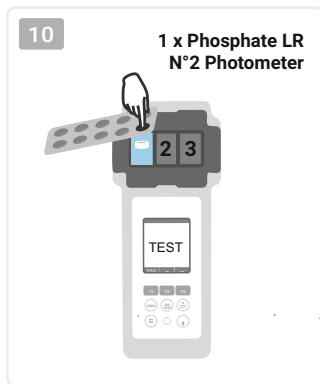
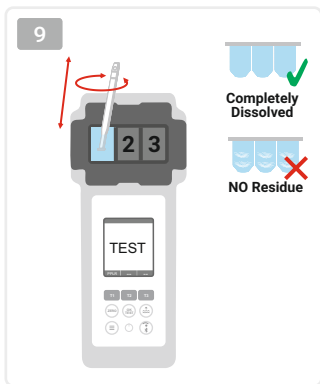
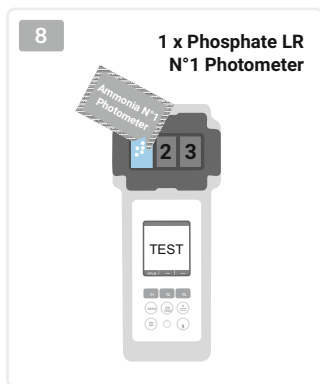
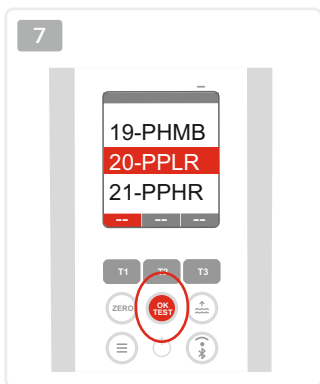
23-QUAT

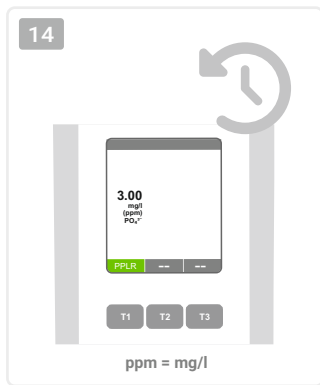
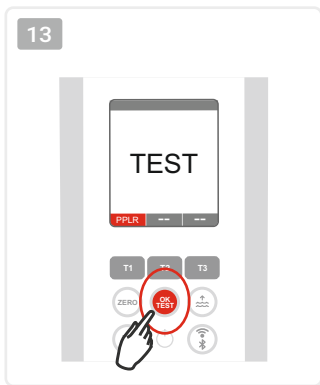
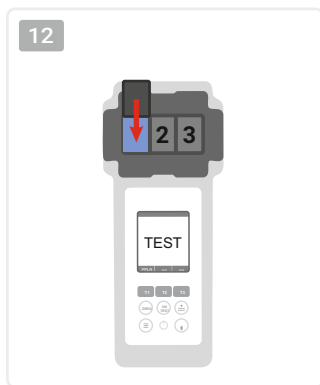
24-SULF

25-TH

26-UREA

27-ZINC





- 1-ACT
- 2-TA
- 3-ALU
- 4-AMM
- 5-BRO
- 6-CH
- 7-CLA
- 8-CL
- 9-CLHR
- 10-CLO2
- 11-CU
- 12-CYA
- 13-HYDL
- 14-HYDH
- 15-IRON
- 16-NTRA
- 17-OZON
- 18-PH
- 19-PHMB
- 20-PPLR
- 21-PPHR
- 22-POT
- 23-QUAT
- 24-SULF
- 25-TH
- 26-UREA
- 27-ZINC



ONLY SINGLE (p. 21)

Phosphate (HR)
Phosphat (HR)
Fosfato (HR)
Phosphate (HR)
Fosfato (HR)

21-PPHR**0 – 80 ppm (mg/l) PO_4^{3-}**

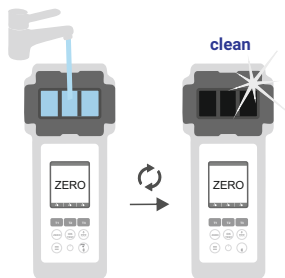
Phosphate HR N°1 Photometer Powder Pillow*

☉ Phosphate HR N°2 Photometer*

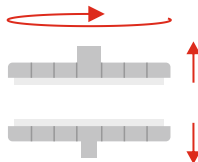
*not part of standard equipment

1

1...10 → Page 42

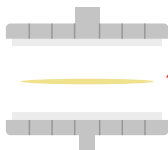


2

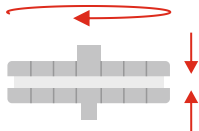


3

25 mm (GF/C)-Filter

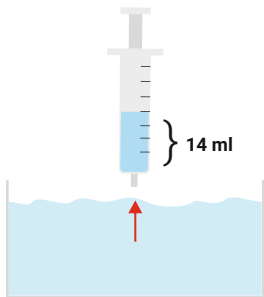


4

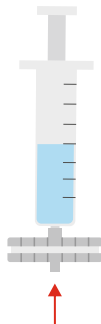


5

14 ml



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

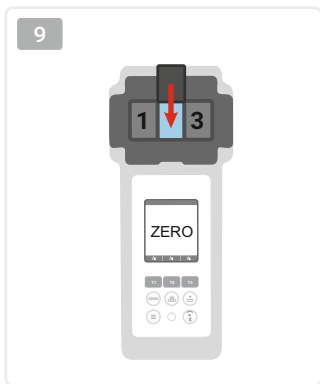
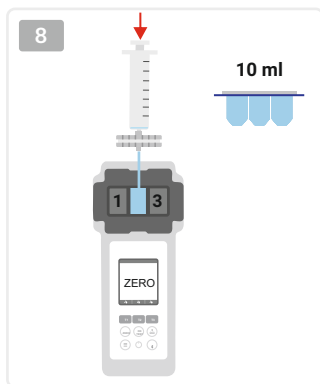
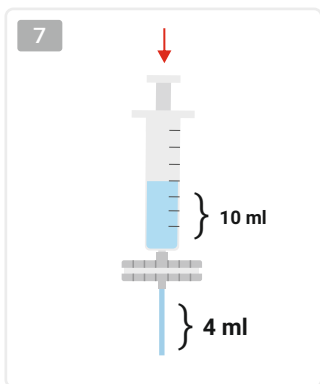
23-QUAT

24-SULF

25-TH

26-UREA

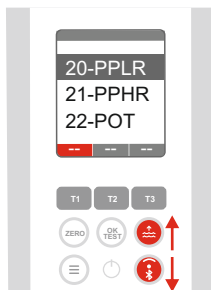
27-ZINC



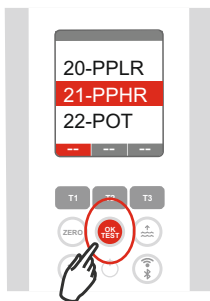
11



12



13



14

CHAMBER 2!
1 x Phosphate HR
N°1 Photometer



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

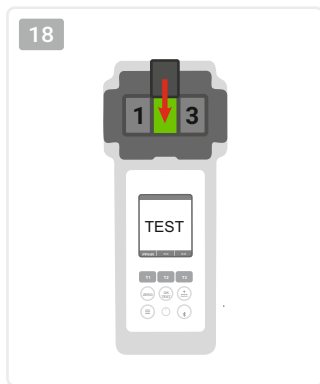
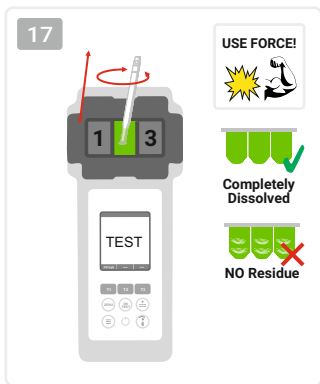
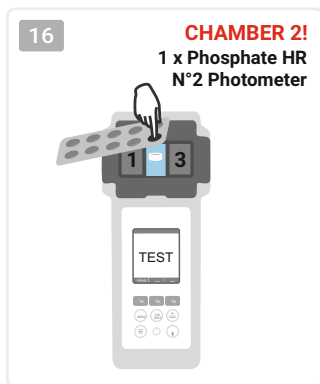
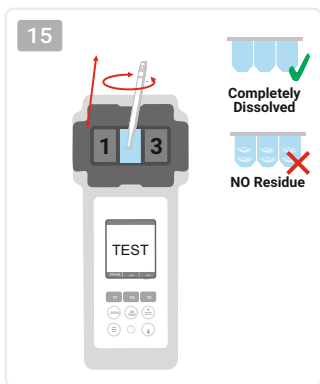
23-QUAT

24-SULF

25-TH

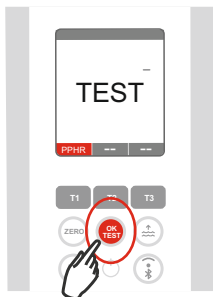
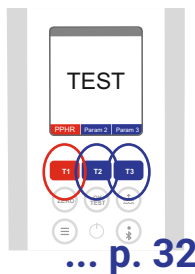
26-UREA

27-ZINC



19

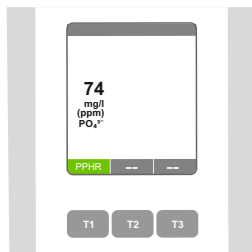
If single parameter:

If multiple parameters:
See page 32

20



21



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



ONLY SINGLE (p. 21)

Potassium
Kalium
Potasio
Potassium
Potassio

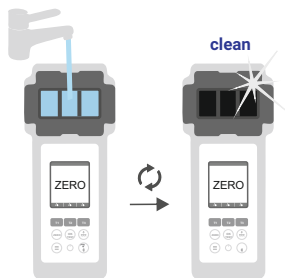
22-POT

0.7 – 12.0 ppm (mg/l) K

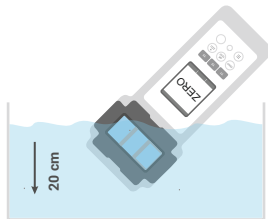
Potassium Photometer*

*not part of standard equipment

1...4 → Page 42

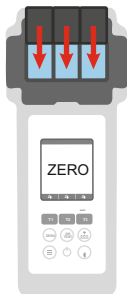


2



waterproof (IP68)

3



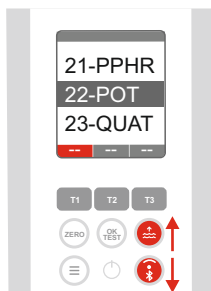
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

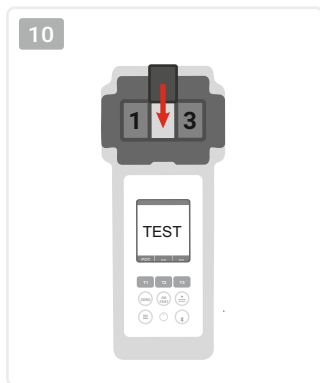
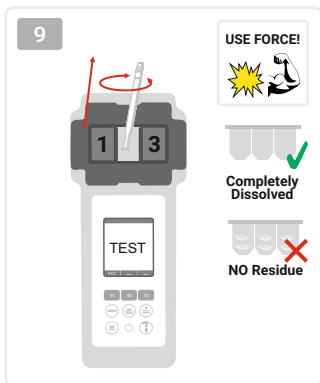
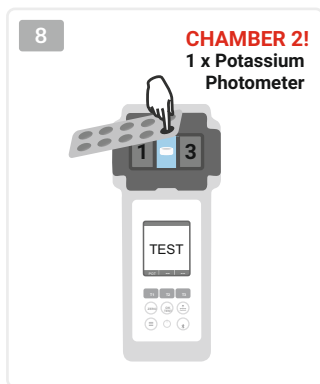
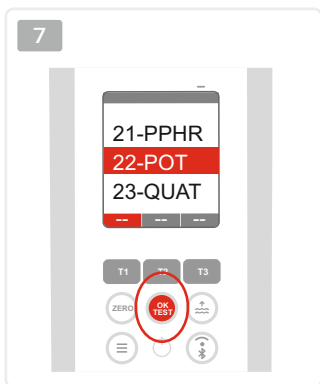
23-QUAT

24-SULF

25-TH

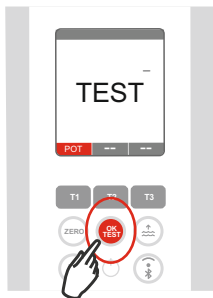
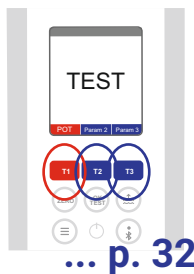
26-UREA

27-ZINC



11

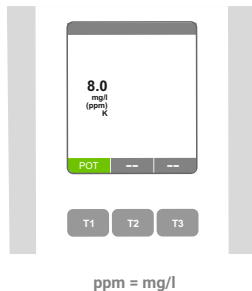
If single parameter:

If multiple parameters:
See page 32

12



13



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

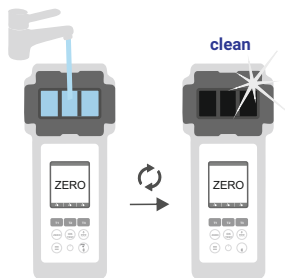
QAC QUAT

23-QUAT**25 – 150 ppm (mg/l) QAC**Acidifying GP Powder Pillow*
● QAC HR Photometer*

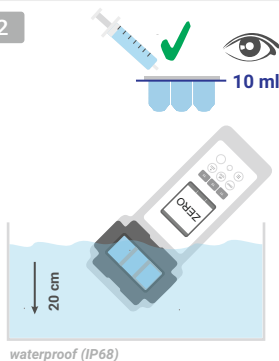
*not part of standard equipment

1

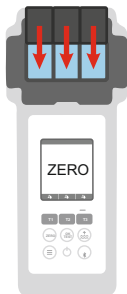
1...4 → Page 42



2



3



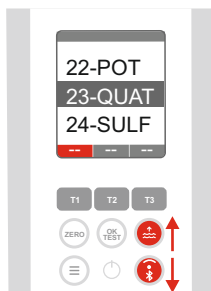
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

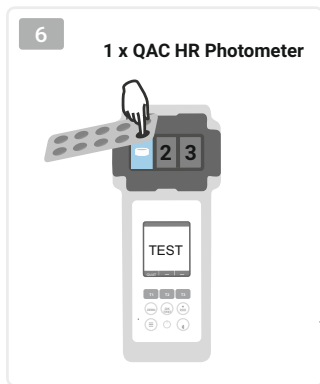
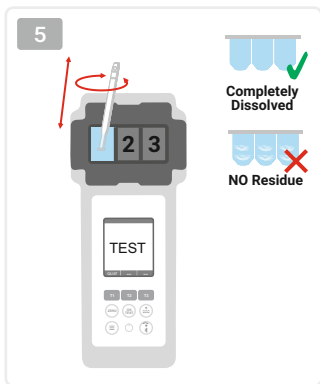
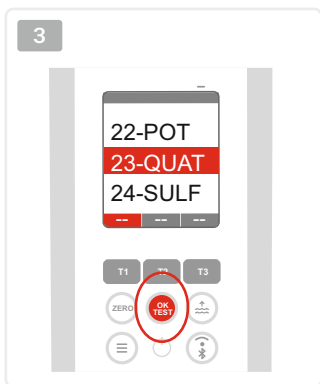
23-QUAT

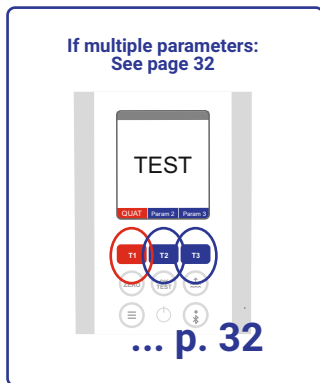
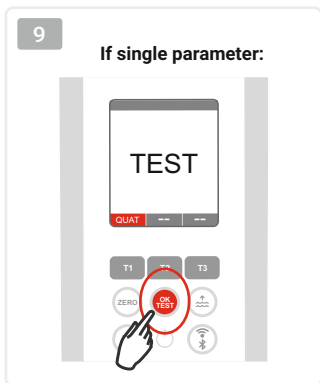
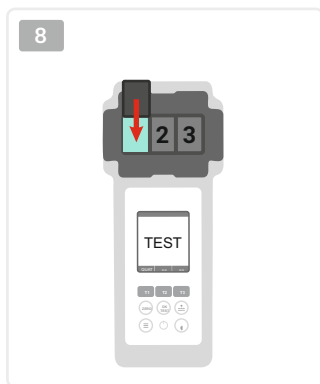
24-SULF

25-TH

26-UREA

27-ZINC



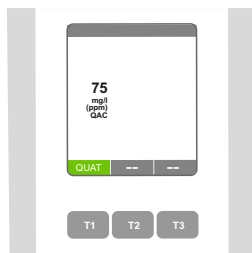


- 1-ACT
- 2-TA
- 3-ALU
- 4-AMM
- 5-BRO
- 6-CH
- 7-CLA
- 8-CL
- 9-CLHR
- 10-CLO2
- 11-CU
- 12-CYA
- 13-HYDL
- 14-HYDH
- 15-IRON
- 16-NTRA
- 17-OZON
- 18-PH
- 19-PHMB
- 20-PPLR
- 21-PPHR
- 22-POT
- 23-QUAT**
- 24-SULF
- 25-TH
- 26-UREA
- 27-ZINC

10



11



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR



100



50



5



Sulphate Sulfat Sulfato Sulfate Solfato



ONLY SINGLE (p. 21)

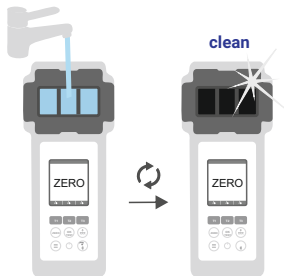
24-SULF

5 – 100 ppm (mg/l) SO_4^{2-}
Sulphate Photometer Powder Pillow*

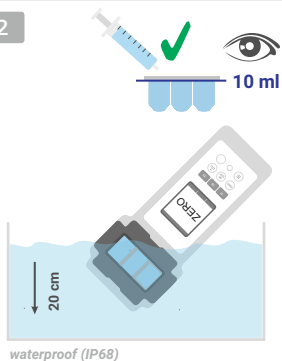
*not part of standard equipment

1

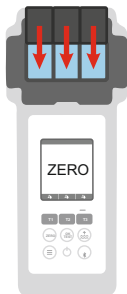
1...4 → Page 42



2



3



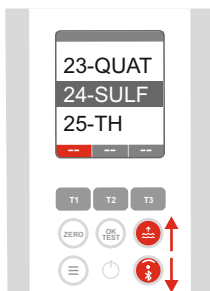
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

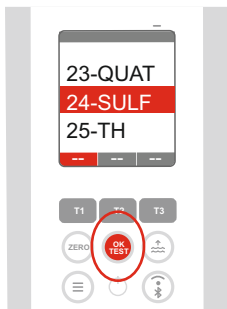
24-SULF

25-TH

26-UREA

27-ZINC

7



8

1 x Sulphate Photometer



9

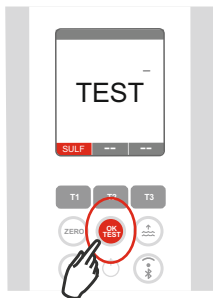
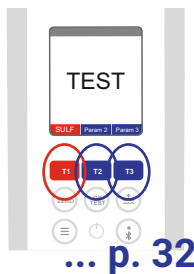


10



11

If single parameter:

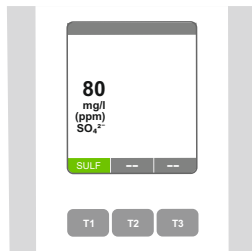
If multiple parameters:
See page 32

... p. 32

12



13



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

500

200

0

Total Hardness Gesamthärte Durezza Total Dureté Totale Durezza Totale

25-TH

0 – 500 ppm (mg/l) CaCO_3

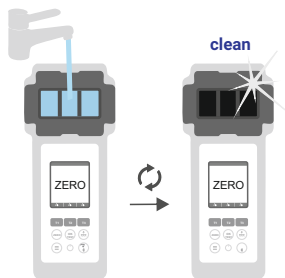
💧 Total Hardness N°1*

💧 Total Hardness N°2*

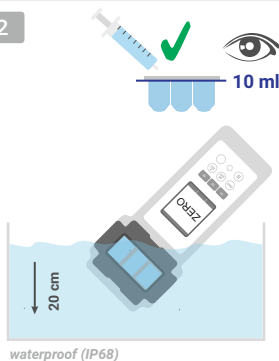
*not part of standard equipment

1

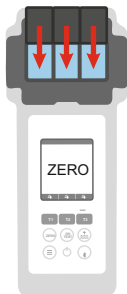
1...4 → Page 42



2



3



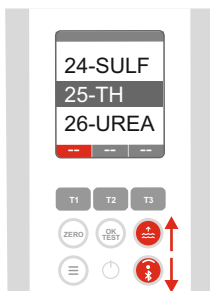
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

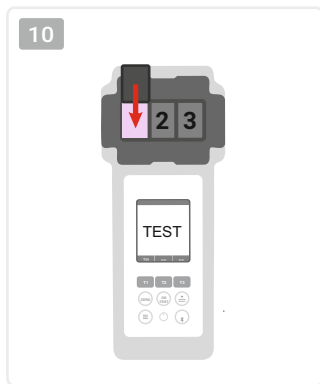
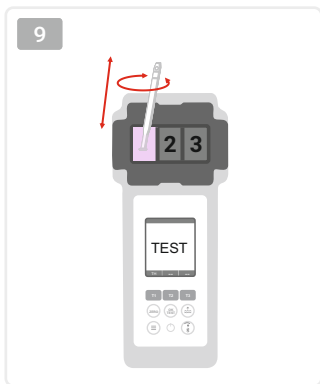
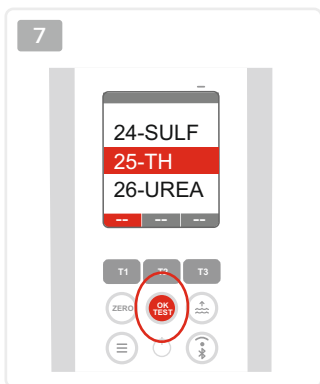
23-QUAT

24-SULF

25-TH

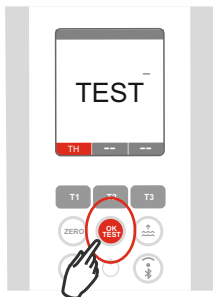
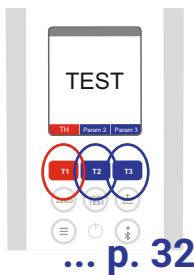
26-UREA

27-ZINC



11

If single parameter:

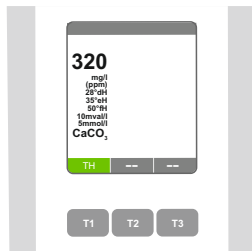
If multiple parameters:
See page 32

... p. 32

12



13



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

2.50

1.20

0.10

↓
UR

Urea Harnstoff Urea Urée



ONLY SINGLE (p. 21)

26-UREA

0.10 – 2.50 ppm (mg/l) (NH₂)₂CO

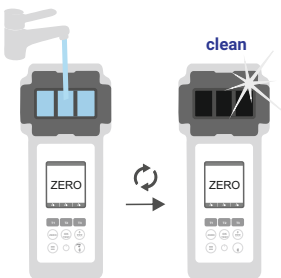
- Dechlor*
- PL Urea N°1*
- PL Urea N°2*

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

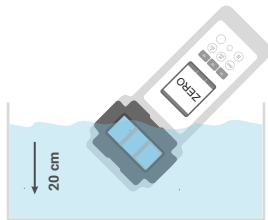
*not part of standard equipment

1

1...4 → Page 42

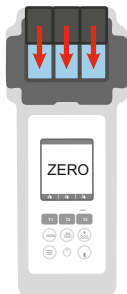


2



waterproof (IP68)

3



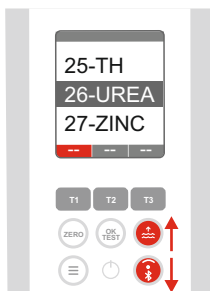
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

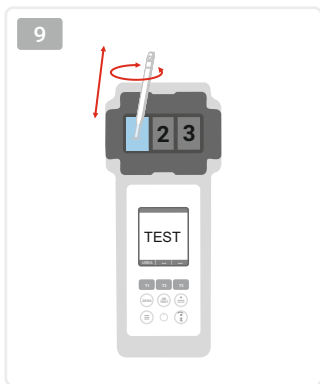
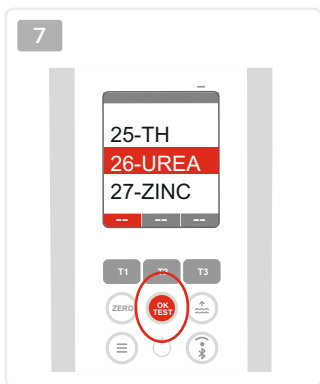
23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



11



12



13



4:30 min

14

1 x Ammonia N°1
Photometer



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

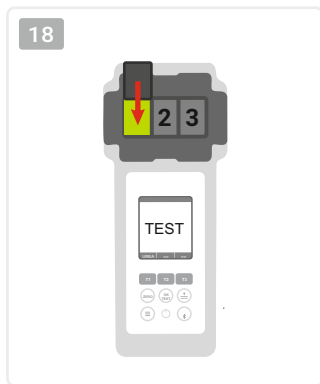
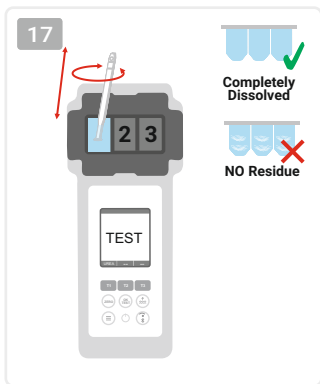
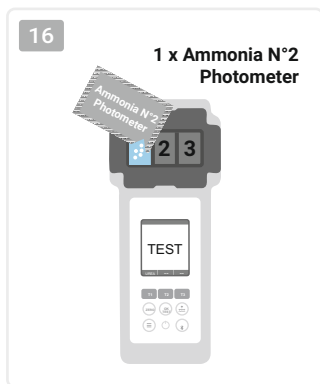
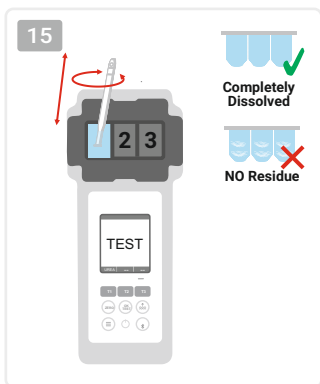
23-QUAT

24-SULF

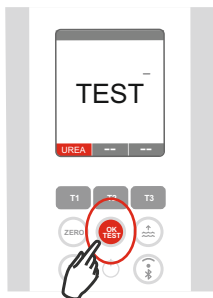
25-TH

26-UREA

27-ZINC



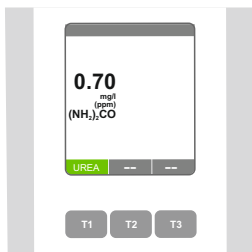
19



20



21



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

OR
↑

1.00

0.50

0.00

Zinc (with chlorine)
Zink (mit Chlor)
Zinc (con cloro)
Zinc (avec chlore)
Zinco (con cloro)

27-ZINC

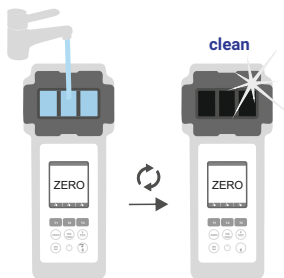
0.00 – 1.00 ppm (mg/l) Zn

Dechlor*
Copper/Zinc LR Photometer*
EDTA*

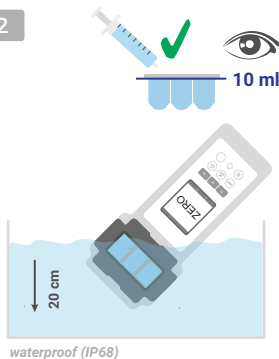
*not part of standard equipment

1

1...4 → Page 42

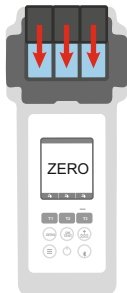


2



waterproof (IP68)

3



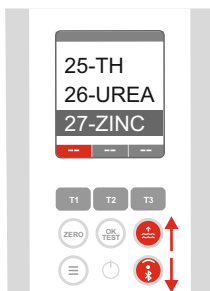
4



5



6



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

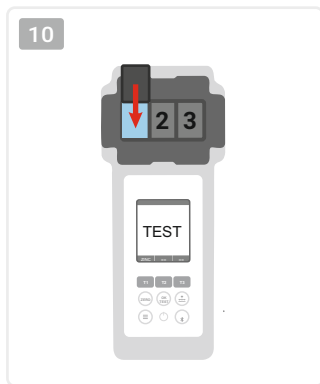
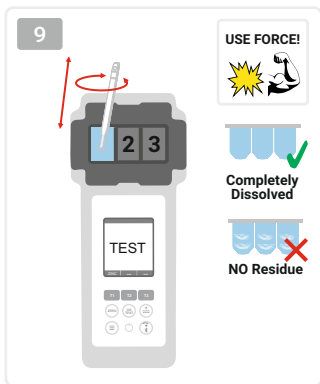
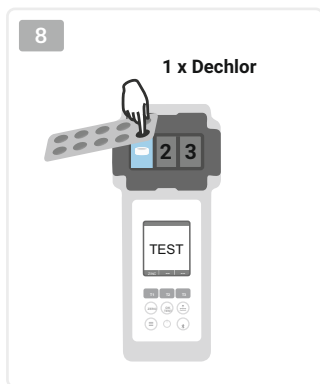
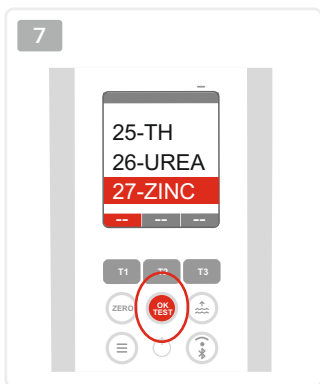
23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC



11



00:15 min

12

1 x Copper/Zinc LR



13



USE FORCE!



Completely
Dissolved



NO Residue

14



1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

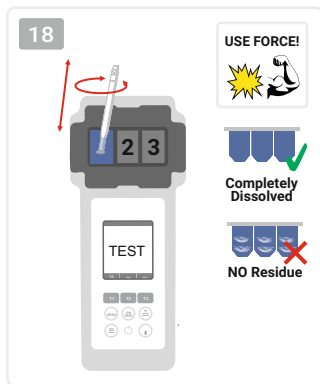
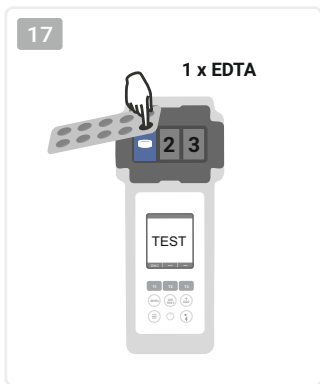
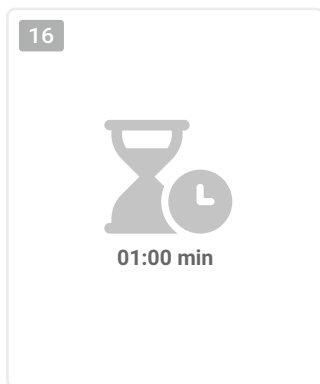
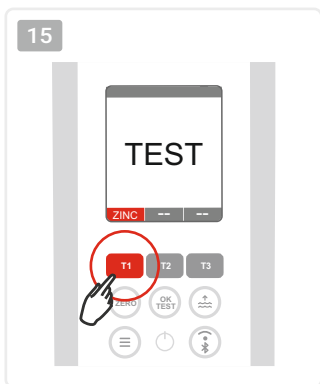
23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC

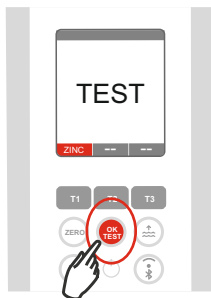


19

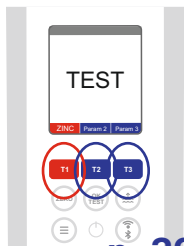


20

If single parameter:

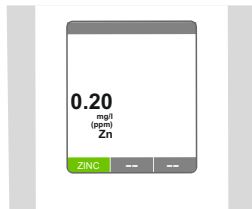


If multiple parameters:
See page 32



... p. 32

21



ppm = mg/l

1-ACT

2-TA

3-ALU

4-AMM

5-BRO

6-CH

7-CLA

8-CL

9-CLHR

10-CLO2

11-CU

12-CYA

13-HYDL

14-HYDH

15-IRON

16-NTRA

17-OZON

18-PH

19-PHMB

20-PPLR

21-PPHR

22-POT

23-QUAT

24-SULF

25-TH

26-UREA

27-ZINC





	CaCO ₃ mg/l	K _{S4,3} 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 _{S4,3}	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 (oberhalb des Messbereichs) / UR = Underrange (unterhalb des Messbereichs)


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 (Por encima del rango de medición) / UR = Underrange (Por debajo del rango de medición)


El resultado de la prueba está fuera del rango de este método. Los resultados "OR" pueden ser reducidos por dilución al rango de medición. Usar la jeringuilla y tomar 5 ml (o 1 ml) de agua de ensayo más 5 ml (9 ml) de agua destilada. Efectuar la medición y multiplicar el resultado por 2 (por 10). La dilución no es aplicable al parámetro "pH".

OR = Overrange (Au dessus de la plage de mesure) / UR = under-range (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".

OR = Overrange (Sopra il campo di misura) / UR = Underrange (Al di sotto del campo di misura)

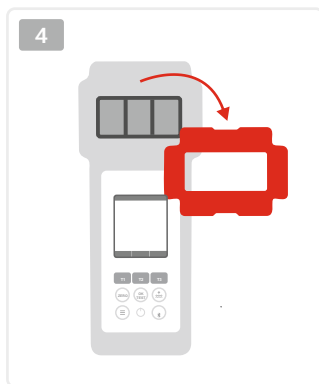
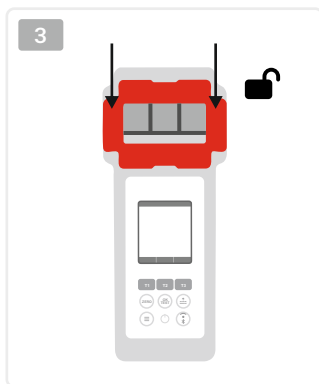
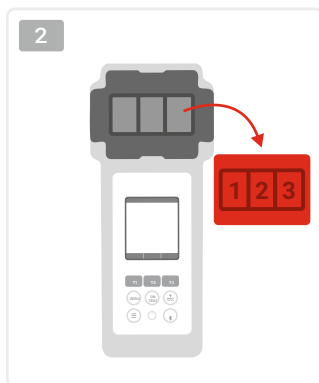

Il risultato del test è fuori del campo di misura di questo processo. Risultati "OR" possono essere portati nel campo di misura mediante diluizione. Utilizzare la siringa e prendere 5ml (o 1 ml) acqua di prova più 5ml (9 ml) di acqua distillata. Eseguire il test e moltiplicare il risultato per 2 (per 10). La diluizione non è applicabile al parametro "pH".



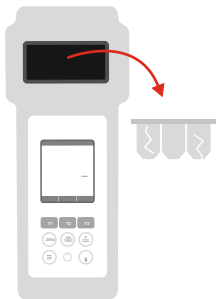
BAT!:		Change batteries
		Batterien wechseln
		Cambiar las pilas
		Changer les piles
		Cambiare le batterie

E1		(Too bright) Possibly light protection cover forgotten during measurement
		(Zu hell) Möglicherweise Lichtschutzdeckel während der Messung vergessen
		(Demasiado brillante) Posiblemente la cubierta de protección de la luz se olvidó durante la medición
		(Trop lumineux) Oubli éventuel du couvercle de protection contre la lumière pendant la mesure
		(Troppo chiaro) Possibile che la copertura di protezione leggera sia stata dimenticata durante la misurazione

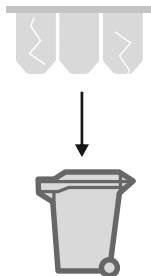
E2		Ambient temperature below -5°C or above 60°C
		Umgebungstemperatur unter -5°C oder über 60°C
		La temperatura ambiente inferior a -5°C o superior a 60°C
		Température ambiante sous -5°C ou supérieure à 60°C
		Temperatura ambiente inferiore a -5°C o super-iori a 60°C



5



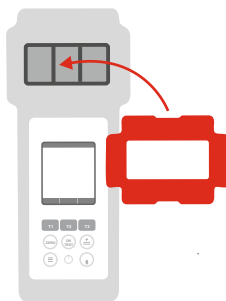
6

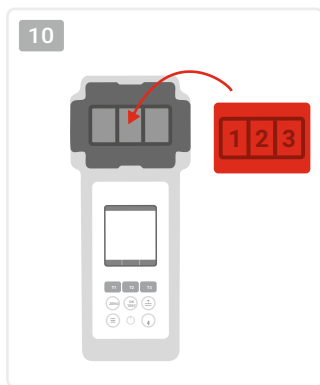
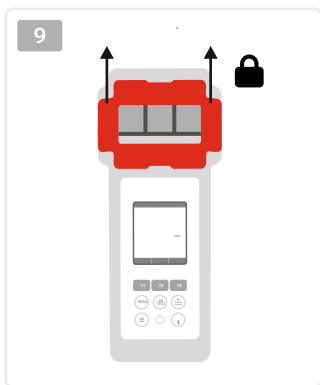


7



8







Reagents | Reagenzien | Reactivos | Réactifs | Reagenti

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
TbsHAFFP50	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
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

TbsPQAC50	50 tablets QAC HR 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 | Ersatzteile | Piezas de repuesto | Pièces de rechange | Pezzi di ricambio

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-ad
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 measurement sources.



Verbinden Sie das PoolLab® 2.0 über Bluetooth® mit der LabCOM® App, um die WLAN-Verbindung, die Cloud, das Datum/Uhrzeit und die Messquellen einzustellen.



Conecte el PoolLab® 2.0 mediante Bluetooth® a la app LabCOM® para configurar la conexión WiFi, la nube, la fecha/hora y las fuentes de medición.



Connectez le PoolLab® 2.0 via Bluetooth® à l'application LabCOM® pour configurer la connexion WiFi, le cloud, la date/l'heure et les sources de mesure.



Collegare il PoolLab® 2.0 via Bluetooth® all'app LabCOM® per impostare la connessione WLAN, il cloud, la data/ora e le fonti di misurazione.

FAQ

<https://poollab.org>

MSDS

<https://msds.water-id.com>

Cloud

<https://labcom.cloud>

Developed in Germany | Produced 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)

**Active Oxygen (MPS) | Aktivsauerstoff (MPS)
Oxígeno Activo (MPS) | Oxygène Actif (MPS)
Ossigeno Attivo (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)

**Alkalinity | Alkalinität | Alcalinidad
Alcalinité | Alcalinità**

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)

Aluminium

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)



Ammonium	
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)
13.5 – 18.0	3.0 ppm (mg/l)

Bromine Brom Bromo Brome Bromo	
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)
13.5 – 18.0	3.0 ppm (mg/l)

Calcium Hardness Kalziumhärte Durezza De Calcio Dureté Calcique Durezza Del Calcio	
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)

Chloramine

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)

Chlorine | Chlor | Cloro | Chlore | Cloro

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)

Chlorine HR

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)

Chlorine Dioxide | Chlordioxid
Dióxido De Cloro | Dioxyde De Chlore
Biossido Di Cloro

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)
11.40 – 15.00	2.37 ppm (mg/l)

Copper

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)

Cyanuric Acid | Cyanursäure
Ácido Cianúrico | Acide Nurique
Acido Cianurico

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)

**Hydrogen Peroxide | Wasserstoffperoxid
Peróxido De Hidrógeno | Peroxyde D'Hydrogène
Perossido Di Idrogeno – (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)

**Hydrogen Peroxide | Wasserstoffperoxid
Peróxido De Hidrógeno | Peroxyde D'Hydrogène
Perossido Di Idrogeno – (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)

Iron

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)



Nitrate	
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)
4.00 – 5.40	0.85 ppm (mg/l)

Ozone Ozon Ozono	
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)
4.00 – 5.40	0.85 ppm (mg/l)

pH	
Range	±
6.50 – 8.40	0.11 pH

PHMB	
Range	±
5 – 60	5 ppm (mg/l)

Phosphate LR

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)
4.00 – 5.40	0.85 ppm (mg/l)

Phosphate HR

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)
4.00 – 5.40	0.85 ppm (mg/l)

Potassium

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)
4.00 – 5.40	0.85 ppm (mg/l)



QAC	
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)
4.00 – 5.40	0.85 ppm (mg/l)



Sulphate	
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)
4.00 – 5.40	0.85 ppm (mg/l)

Total Hardness Gesamthärte Durezza Total Dureté Totale Durezza 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)

Urea | Harnstoff | 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)

Zinc with chlorine

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)

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 2.0 Photometer free of charge (not including costs of sending the device to us). Send your PoolLab® 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.

Disposal and recycling information

The crossed-out wheeled-bin symbol on your product, battery, literature or packaging reminds you that all electronic products and batteries must be taken to separate waste collection points at the end of their working lives; they must not be disposed of in the normal waste stream with household garbage. It is the responsibility of the user to dispose of the equipment using a designated collection point or service for separate recycling of waste electrical and electronic equipment (WEEE) and batteries according to local laws. Proper collection and recycling of your equipment helps ensure electrical and electronic equipment (EEE) waste is recycled in a manner that conserves valuable materials and protects human health and the environment, improper handling, accidental breakage, damage, and/or improper recycling at the end of its life may be harmful for health and environment. For more information about where and how to drop off your EEE waste, please contact your local authorities, retailer or household waste disposal service.

Warranty

The statutory warranty provisions apply to your PoolLab® 2.0.



The manufacturer

**Water-i.d. GmbH, Daimlerstr. 20,
D-76344 Eggenstein-Leopoldshafen
Federal Republic of Germany**

represented by the general manger
Dipl. Ec. Andreas Hock

here-with declares as follows: The product "PoolLab® 2.0" complies
with the requirements of the following standards for:

ETSI EN 300 328 (V2.2.2)
EN 62479 (2010)
ETSI EN 301 489-1 (V2.2.3)
ETSI EN 301 489-17 (3.2.4)
EN 61326-1:2021
EN 61326-2:2021
EN IEC 62368-1:2020+A11:2020
IEC/IEEE 62209-1528: 2021
EN 50566: 2017
EN 50663: 2017



FCC:

FCC Statement

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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

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 1.6 W/kg.

The device complies with the RF specifications when the device is used near at a distance of **XX 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 **XX 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 **XX 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.



ICES:

This device complies CAN ICES-003(B) / NMB-003(B)

IC Warning:

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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotopically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

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 1.6 W/kg.

The device complies with the RF specifications when the device is used near at a distance of **XX 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 **XX 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 **XX 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.

UKCA/CE-RED:

RED2014/53/EU, S.I. 2017/1206

Declaration of Conformity

Hereby, XXXXXX declares that this XXXXX product 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 found at WWW.XXXX.COM.

Frequency range:

Bluetooth 2402-2480MHz, Maximum E.I.R.P: **XXXdBm**

2.4GWi-Fi Frequency range: 2412-2472MHz, Maximum E.I.R.P: **XXXdBm**

The device complies with RF specifications when the device used at **<5mm** your body.



Specific Absorption Rate (SAR) information:

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 1.6 W/kg.

The device complies with the RF specifications when the device is used near at a distance of XX 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 XX 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 XX 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.

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

Canada

ISED Statement

This device complies with Part 15 of the FCC Rules [and contains licensee exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's 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.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

Specific Absorption Rate (SAR) information:

This Communicator 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. IC RF Exposure Information and Statement the SAR limit of Canada (IC) is 1.6 W/kg averaged over ten gram of tissue. Device types: Communicator has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the phone kept 0mm from the body. To maintain compliance with IC RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the phone. 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 IC RF exposure requirements, and should be avoided.

Legislation Name
Further identification**Legislation Number**Electromagnetic Regulations 2016
(EMC)

Electromagnetic Compatibility

Compatibility Regulations

(S.I. 2016/1091)

Electrical Equipment Safety

Regulations 2016

(Safety) Regulations

(S.I. 2016/1101)

Radio Equipment

Regulations 2017

Radio Equipment Regulations

(S.I. 2017/1206)

Restriction of the Use of
Certain Hazardous RoHS

Regulations 2012

Substances in Electrical and
Electronic Equipment Regulations

(S.I. 2012/3032)



UK Conformity Assessed

We, Water-i.d. GmbH Germany, hereby certify our responsibility, that the following 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 UK:

Standards

Regulations 2016 (S.I. 2016/1091):

ETSI EN 301 489-1 V2.2.3

ETSI EN 301 489-17 V3.2.4

Regulations 2016 (S.I. 2016/1101):

EN IEC 62368-1:2020+A11:2020

IEC/IEEE 62209-1528: 2021

EN 50566: 2017

EN 50663: 2017

EN 62479: 2010

Regulations 2017 (S.I. 2017/1206):

ETSI EN 300 328 V2.2.2

TELEC (MIC) / IMDA Declaration of Conformity (Japan / Singapore)

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:

- Band U-NII-2A
- Band U-NII-2C
- J55032
- CE-RED

Type of radio wave, frequency and antenna power:

- USB
- BT 4.2 (BLE) + BT 2.1
- EDR
- 802.11 a/b/g/n/ac

Band U-NII-1 (5.150-5.250GHz)

Band U-NII-2A (5.250-5.350GHz)

Band U-NII-2C (5.470-5.725GHz)

Type certification number: 210-165377

Water-i.d. GmbH (Germany)

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)

A handwritten signature in black ink, appearing to read 'Andreas Hock', written in a cursive style.

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