

PoolLAB 1.0

ТЕСТЕР ФТОМЕТР



Руководство пользователя

CONTENT

Delivery content	3
Changing Batteries	4
Switch on/off	5
General Advices	6 - 7
ZERO	8 - 9
TEST - pH	10 - 11
TEST - Cl - Chlorine	12 - 15
TEST - CYA - Cyanuric Acid	16 - 17
TEST - TA - Alkalinity	18 - 19
TEST - Active Oxygen (MPS)	20 - 21
TEST - Chlorine Dioxide	22 - 25
TEST - Bromine	26 - 29
TEST - Ozone	30 - 35
TEST - Hyd. Peroxide (H ₂ O ₂)	36 - 39
TEST - Total Hardness	40 - 41
TEST - Calcium Hardness	42 - 44
Hardness Conversion	45
OR / UR / Dilution	46
Troubleshooting (Error)	47
Changing cuvette / calibration	48
Accessories	49
App / Software	50
Technical data & links (FAQ, MSDS)	51
Tolerances	52 - 55
Disposal of batteries / device	56
Certification (CE/FCC/IC)	57 - 59
Notes	60 - 63
Certificate of Compliance	64

**Delivery content • Dosinhoud
Leveringsindhold • Teslimat içeriği
Комплектация поставки**

1 x	PoolLab 1.0
1 x	Light shield
3 x	AAA Batteries
1 x	Crushing / Stirring Rods
1 x	10ml syringe
1 x	User guide
20 x	Phenol Red Photometer tablets
20 x	DPD N° 1 Photometer tablets
10 x	DPD N° 3 Photometer tablets
10 x	CYA-Test Photometer tablets
10 x	Alkalinity-M Photometer tablets

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!



UReagentia voor alleen water-analyse!
Niet eten! Buiten het bereik van kinderen!
Bewaar koel en droog!



Reagenser kun til vand-analyse!
Må ikke spises! Opbevares utilgængeligt for
børn!
Opbevares køligt og tørt!



Sadece su analizinde kullanılan reaktifler!
Yeme! Çocukların erin!
Serin ve kuru depolayın!



Реагенты только для анализа воды!
Не глотать! Хранить в недоступном для
детей месте!
Хранить в прохладном и сухом месте!

Batteries • Batterijen • Batterier
Piller • Батарейки



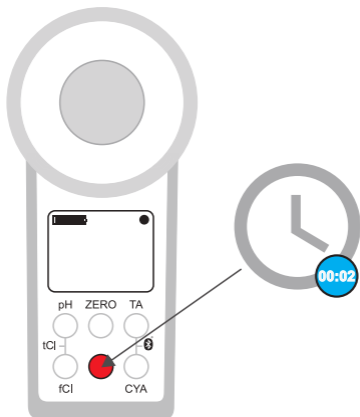
Change
Verandering
Skift
Değişiklik
Заменить



3 x AAA



Switch on • Inschakelen • Tænd Açmak • Включить



On/Off button can also be used to skip countdown during measurement (not recommended)

De On/Off knop kan ook gebruikt worden om het aftellen tijdens de meting af te breken (dit wordt niet aanbevolen)

On/Off kan også benyttes til at undlade nedtællingen under teste (anbefales ikke)

Aç/Kapa düğmesi ölçüm sırasındaki gerisayımı geçmek için de kullanılır. (atlamak tavsiye edilmez)

Кнопка On/Off может также использоваться для отмены обратного отсчета во время измерения (не рекомендуется)

**Advices • Adviezen • Råd
Öneriler • Советы**



PHOTOMETER



RAPID



**Always use PHOTOMETER
grade tablets!
Never use RAPID grade tablets!
Do not touch reagent tablets!**

**Gebruik altijd photometer
tabletten en niet de
zogenaamde rapid tebletten.
Raak de tabletten niet met de
vingers aan.**

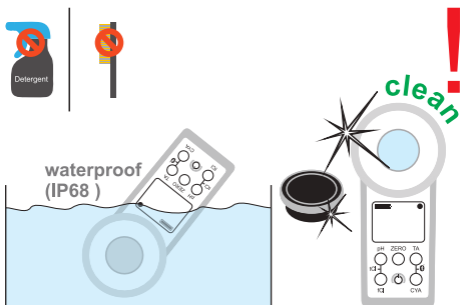
**Brug altid test tabletter i
PHOTOMETER kvalitet! Benyt
ALDRIG tabletter i RAPID
kvalitet! Berør ikke tabletterne!**

**Her zaman Fotometre orijinal
tabletlerini kullanın!
Orijinal olmayan başka tabletler
kullanmaktan kaçının!
Hiçbir zaman tabletlere
dokunmayın!**

**Всегда использовать
таблетки для ФОТОМЕТРА!
Не использовать таблетки
RAPID!**

**Не дотрагиваться до
таблеток!**

IMPORTANT • BELANGRIJK • VIGTIG ВАЖНО



**It is important to clean the device after each measurement
to get rid of any reagent residues!**

**Важно чистить прибор после каждого измерения,
чтобы убрать остатки реагентов!**

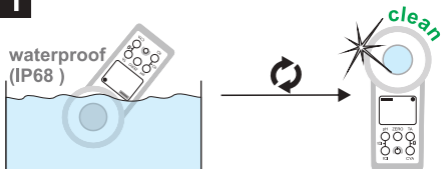


РЕКОМЕНДУЕМ

Производить наполнение кюветы,
используя 10 мл шприц, который
идет в комплекте.

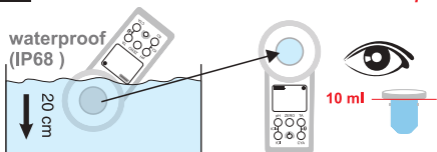
ZERO

1

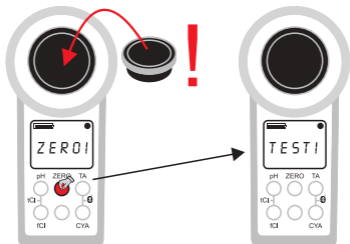


2

take 10 ml water sample



3



Only 1 time per test batch • Slechts 1 keer per test batch • Kun 1 gang pr. testbatch • Her test uĝını iin yalnızca 1 zaman • Только 1 раз в тестируемой партии

Once you performed ZERO, all measurements, like pH, chlorine... can be done one after each other without the need to do a ZERO again. The ZERO will be stored until the device will be switched off. Nevertheless, ZERO can be performed before each measurement, if wished.

De zogenaamde nulpuntmeting hoeft maar 1 x per meetsessie uitgevoerd te worden. Meteen hierna kunnen de metingen voor pH, chloor etc uitgevoerd worden. Deze nulpuntmeting blijft bewaard zolang de meter aan blijft staan. Desgewenst kan per meting ook iedere keer een nulpuntmeting uitgevoerd worden.

Når du har udført ZERO måling så kan du efterfølgende udføre alle målinger såsom PH, Klor etc. uden behov for at udføre en ny ZERO måling. Hvis du ønsker det så kan man dog stadig udfører nye ZERO før efterfølgende målinger.

Bir kez sıfır ayarı (ZERO) belirdikten sonra, esitli lümleri ardı ardına yapabilirsiniz. Cihaz kapanıp açılana kadar aynı sıfır ayarı kullanılabilir. İstenilirse, her lüm öncesi yeni ayar da alınabilir.

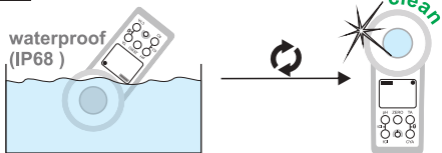
ZERO выполняется один раз перед серией измерений. После выполнения ZERO все последующие измерения (например pH, хлор и др.) можно делать последовательно, один за другим, не повторяя ZERO. Значение ZERO будет храниться, пока устройство не будет выключено. При желании ZERO может быть выполнено перед каждым измерением.

pH

6.50 - 8.40 pH

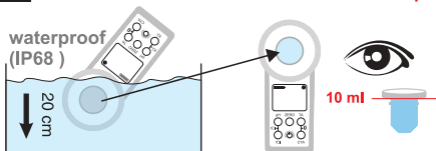
Phenol Red Photometer

1



2

take 10 ml water sample



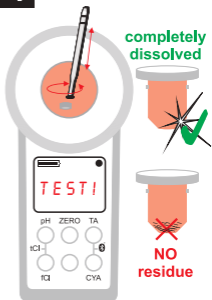
After / Na / Efter / Sonra / После ZERO pH

3

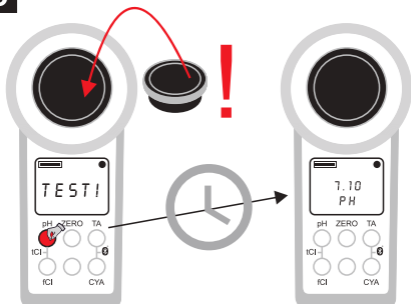
Phenol Red Photometer



4



5



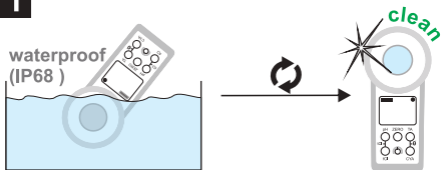
Chlorine Chloor Κlor Хлор

0.00 - 6.00 mg/l (ppm)

DPD N° 1 Photometer

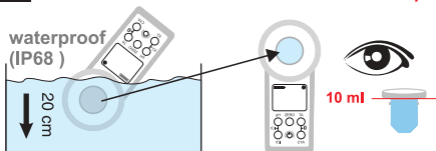
DPD N° 3 Photometer

1



2

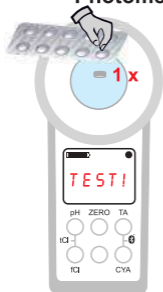
take 10 ml water sample



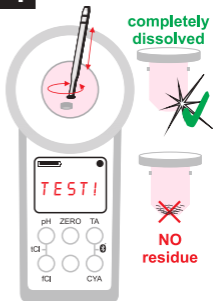
After / Na / Efter / Sonra / После ZERO
Free Chlorine • Vrije Chloor • frit klor
Serbest klor • Свободный хлор

3

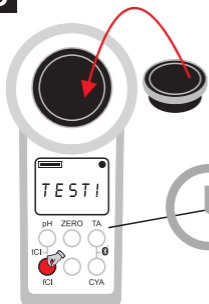
DPD N° 1
Photometer



4

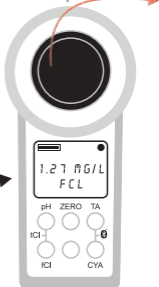


5



6

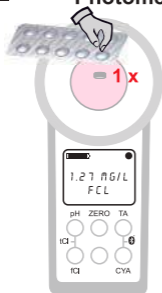
Total Chlorine



Total Chlorine • Totale Chloor • Total klor Toplam Klor • Общий хлор

6

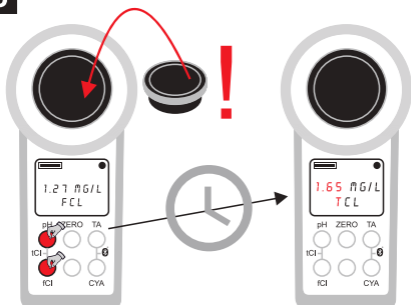
DPD N° 3
Photometer



7



8



Total Chlorine is measured directly after free Chlorine without emptying the cuvette. The DPD 3 tablet is added to the sample water which already contains the DPD 1 tablet (dissolved). Combined Chlorine is calculated as
Total Chlorine minus free Chlorine.

De meting voor totaal chloor dient direct na de meting van vrij chloor uitgevoerd te worden zonder de testcuvette te legen. De DPD 3 tablet wordt toegevoegd aan het water waarin de DPD 1 tablet van de vrije chloormeting reeds is opgelost. De waarde van het gebonden chloor krijgt u door de waarde van vrij chloor van de totaal chloormeting af te trekken.

Total Klor måles direkte efter måling for Fri Klor uden at kammeret tømmes for vand. DPD 3 tilføjes til testvandet der allerede indeholder den opløste DPD 1 tablet. Kombineret Klor beregnes som Total Klor minus Fri Klor.

Toplam klor serbest klor ölçüldükten hemen sonra, su boşaltılmadan ölçülür. DPD 3 tableti önceden DPD 1 atılmış suyun içine atılır. Bağlı klor toplam klordan serbest klor çıkartılarak hesaplanır.

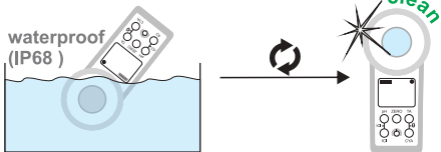
Общий хлор измеряется непосредственно после свободного хлора не выливая образец воды из кюветы прибора. Таблетки DPD 3 добавляются в образец воды, который уже содержит таблетку DPD 1 (растворенную). Связанный хлор рассчитывается как общий хлор минус свободный хлор.

Сyanuric Acid Сyanuurzuur Сyanursyre Siyanürik Asit Циануровая кислота

0 - 160 mg/l (ppm)

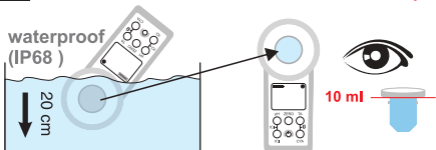
CYA-Test Photometer

1



2

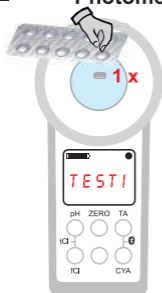
take 10 ml water sample



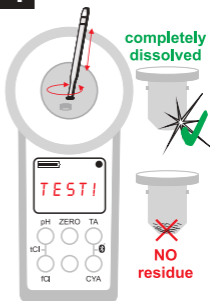
After / Na / Efter / Sonra / После ZERO
Сян. Acid • Сянуурзуур • Сянуурсые
Şiyanürik Asit • Циануровая кислота

3

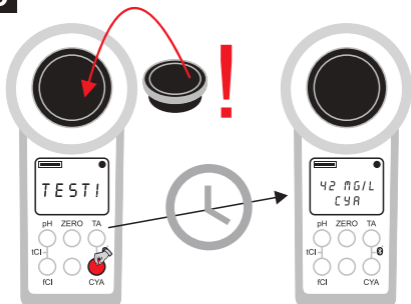
**CYA-Test
Photometer**



4



5

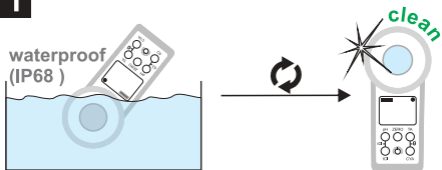


Alkalinity Alkalinität Alkalitet Alkalinite Щелочность

0 - 300 mg/l (ppm) CaCO_3

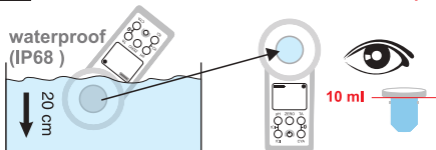
Alkalinity-M Photometer

1



2

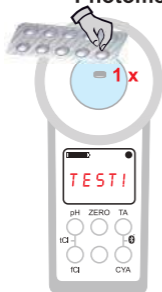
take 10 ml water sample



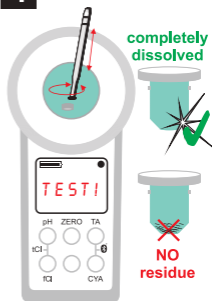
After / Na / Efter / Sonra / После ZERO
Alkalinity • Alkalinität • Alkalitet
Alkalinite • Щелочность

3

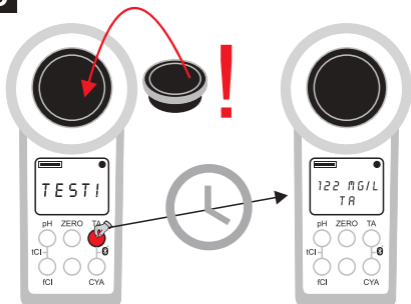
Alkalinity-M
Photometer



4



5



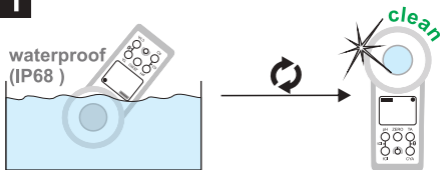
Active Oxygen Actieve zuurstof Aktiv ilt Aktif Oksijen Активный кислород (MPS)

0.0 - 30.0 mg/l (ppm)

DPD N° 4 Photometer*

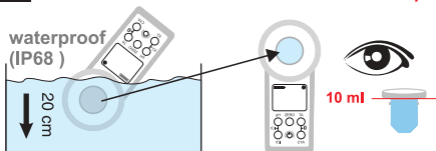
1

*not part of standard equipment



2

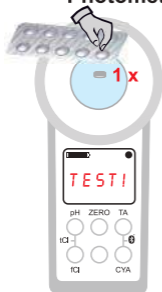
take 10 ml water sample



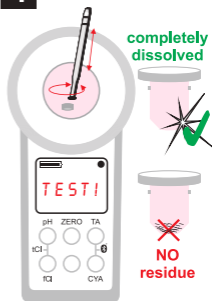
After / Na / Efter / Sonra / После ZERO
Active Oxygen • Actieve zuurstof • Aktiv ilt
Aktif Oksijen • АКТИВНЫЙ КИСЛОРОД

3

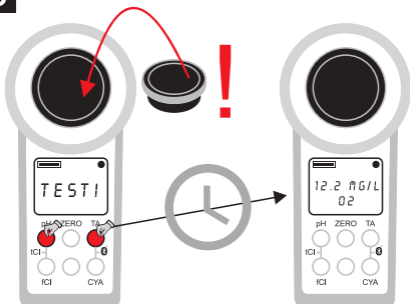
**DPD N° 4
Photometer***



4



5



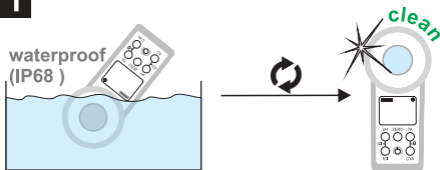
Chlorine Dioxide Chloordioxide Klordioxid Klor dioksit Диоксид хлора

0.00 - 11.40 mg/l (ppm)

DPD N° 1 Photometer
Glycine*

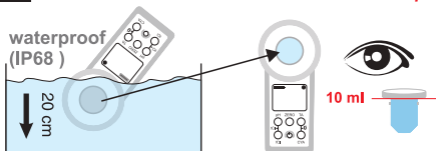
1

*not part of standard equipment



2

take 10 ml water sample



After / Na / Efter / Sonra / После ZERO
Cl.Dioxide • Chloordioxide • Klordioxid
Klor dioksit • Диоксид хлора

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

Alleen indien het water naast chloor ook chloordioxyde (beide desinfectiemiddelen naast elkaar) bevat dient men procedure "A" te volgen en moet een glycine tablet toegevoegd te worden. Indien alleen met chloordioxyde gedesinfecteerd wordt dient men procedure "B" te volgen.

Kun såfremt vandprøven ud over klor også indeholder Klor Dioxid(begge desinfektionsmidler er benyttet) så skal den følgende procedure A følges og det er nødvendigt at benytte Glycine tabletter. Såfremt vandprøven alene indeholder Klor Dioxid så skal procedure B følges.

Test suyunuz hiç klor içermiyorsa, Prosedur A izlenmeli ve Glisin tabletleri kullanılmalıdır. Aksi takdirde (sadece klor dioksit bulunuyorsa), lütfen prosedur B'yi izleyin.

Если образец воды содержит хлор и диоксид хлора (использовались оба дезинфицирующих средства), выполняется процедура „А“ с добавлением реагента глицин*. В противном случае (присутствует лишь диоксид хлора) выполняется процедура „В“

After / Na / Efter / Sonra / После ZERO
Cl.Dioxide • Chloordioxide • Klordioxid
Klor dioksit • Диоксид хлора

A

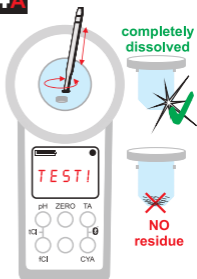
With Chlorine / Met Chloor / Med Klor /
Klorlu / С хлором

3A

Glycine*

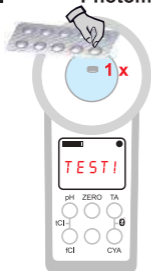


4A

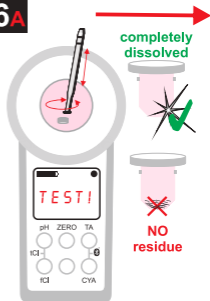


5A

DPD N° 1
Photometer



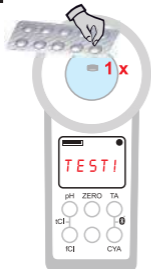
6A



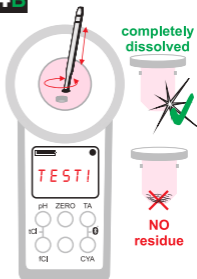
After / Na / Efter / Sonra / После ZERO
Cl.Dioxide • Chloordioxide • Klordioxid
Klor dioksit • Диоксид хлора

B Without Chlorine / Zonder chloor / Uden Klor /
Klor olmadan / Без хлора

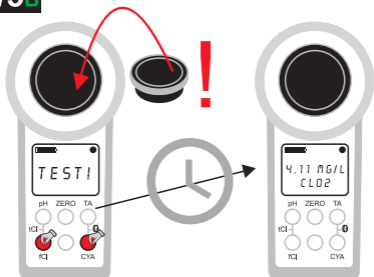
3B DPD N° 1
Photometer



4B



7A/5B



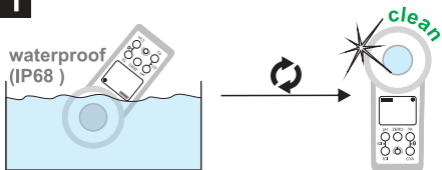
Bromine Brom Brom Бром

0.0 - 13.5 mg/l (ppm)

DPD N° 1 Photometer
Glycine*

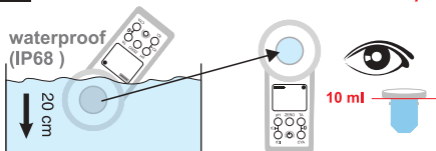
1

*not part of standard equipment



2

take 10 ml water sample



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

Alleen indien het water naast chloor ook broom (beide desinfectiemiddelen naast elkaar) bevat dient men procedure "A" te volgen en moet een glycine tablet toegevoegd te worden. Indien alleen met broom gedesinfecteerd wordt dient men procedure "B" te volgen.

Kun såfremt vandprøven ud over klor også indeholder Brom(begge desinfektionsmidler er benyttet) så skal den følgende procedure A følges og det er nødvendigt at benytte Glycine tabletter. Såfremt vandprøven alene indeholder Brom så skal procedure B følges.

Test suyunuz hiç klor içermiyorsa, Prosedur A izlenmeli ve Glisin tabletleri kullanılmalıdır. Aksi takdirde (sadece brom bulunuyorsa), lütfen prosedur B'yi izleyin.

Если образец воды содержит хлор и Бром (использовались оба дезинфицирующих средства), выполняется процедура „А“ с добавлением реагента глицин*. В противном случае (присутствует лишь Бром) выполняется процедура „В“

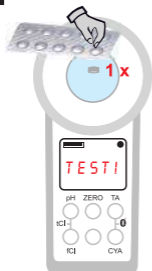
After / Na / Efter / Sonra / После ZERO
Bromine • Broom
Brom • Бром

A

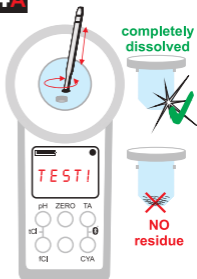
With Chlorine / Met Chloor / Med Klor /
Klorlu / С хлором

3A

Glycine*



4A

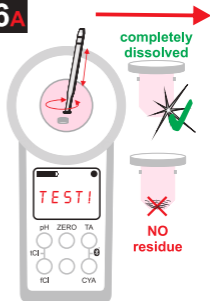


5A

DPD N° 1
Photometer



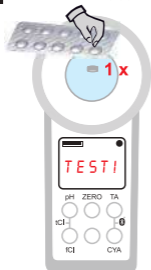
6A



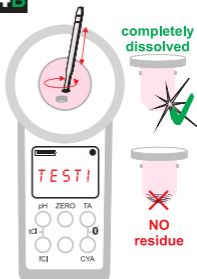
After / Na / Efter / Sonra / После ZERO
Bromine • Broom
Brom • Бром

B Without Chlorine / Zonder chloor / Uden Klor /
Klor olmadan / Без хлору

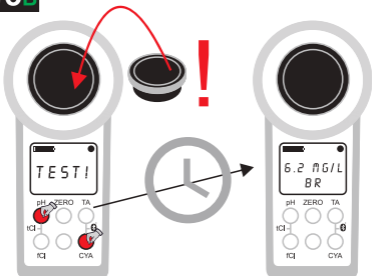
3B DPD N° 1
Photometer



4B



7A/5B



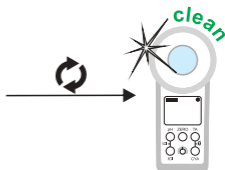
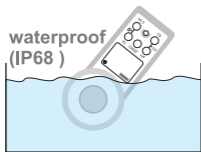
Ozone Ozon O₃H

0.00 - 4.00 mg/l (ppm)

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

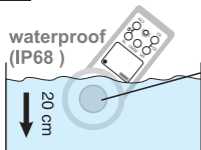
1

*not part of standard equipment



2

take 10 ml water sample



10 ml



After / Na / Efter / Sonra / После ZERO Ozone • Ozon • Озон

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".

Alleen indien het water naast chloor ook ozon (beide desinfectiemiddelen naast elkaar) bevat dient men procedure "B" te volgen en moet een glycine tablet toegevoegd te worden. Indien alleen met ozon gedesinfecteerd wordt dient men procedure "A" te volgen.

Kun såfremt vandprøven ud over klor også indeholder Ozon(begge desinfektionsmidler er benyttet) så skal den følgende procedure B følges og det er nødvendigt at benytte Glycine tabletter. Såfremt vandprøven alene indeholder Ozon så skal procedure A følges.

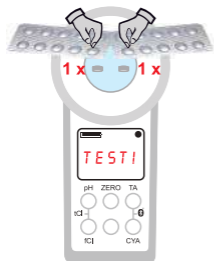
Test suyunuz hiç klor içermiyorsa, Prosedur B izlenmeli ve Glisin tabletleri kullanılmalıdır. Aksi takdirde (sadece ozon bulunuyorsa), lütfen prosedur A'yi izleyin.

Если образец воды содержит хлор и Озон (использовались оба дезинфицирующих средства), выполняется процедура „B“ с добавлением реагента глицин*. В противном случае (присутствует лишь Озон) выполняется процедура „A“

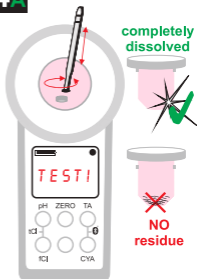
After / Na / Efter / Sonra / После ZERO
Ozone • Ozon • Озон

A Without Chlorine / Zonder chloor / Uden Klor /
Klor olmadan / Без хлору

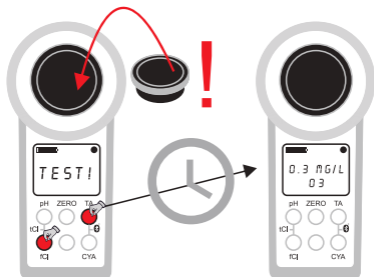
3A DPD N°1 & DPD N°3
(Photometer)



4A



5A

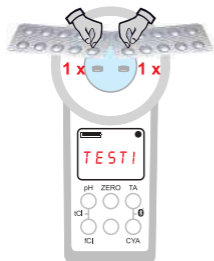


After / Na / Efter / Sonra / После ZERO
Ozone • Ozon • Озон

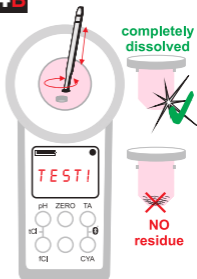
B

With Chlorine / Met Chloor / Med Klor /
Klorlu / С хлором

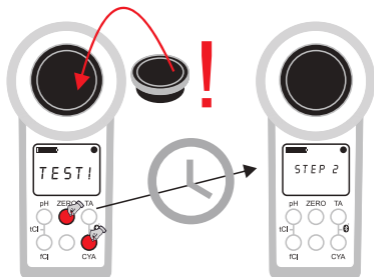
3B DPD N°1 & DPD N°3
(Photometer)



4B



5B

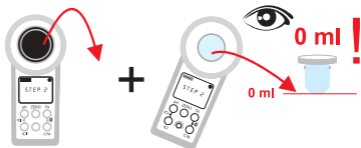


After / Na / Efter / Sonra / После ZERO Ozone • Ozon • Озон

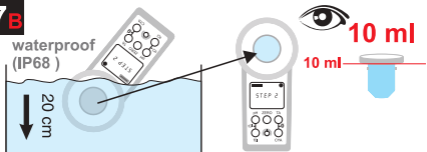
B

With Chlorine / Met Chloor / Med Klor /
Klorlu / С хлором

6B



7B

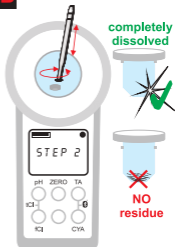


8B

Glycine*



9B

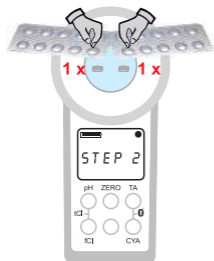


After / Na / Efter / Sonra / После ZERO
Ozone • Ozon • Озон

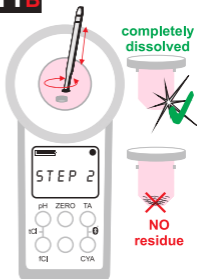
B

With Chlorine / Met Chloor / Med Klor /
Klorlu / С хлором

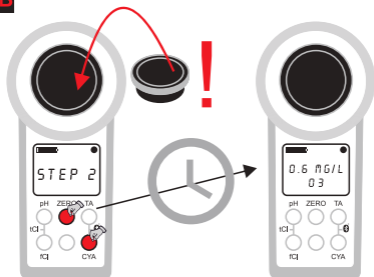
10B DPD N°1 & DPD N°3
(Photometer)



11B



12B



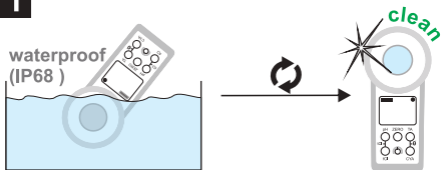
Hydrogen Peroxide Waterstof peroxide Brintoverilte Hidrojen peroksit Пероксид водорода (LR)

0.00 - 2.90 mg/l (ppm)

Hyd. Peroxide LR Photometer*

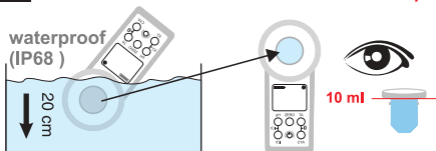
1

*not part of standard equipment

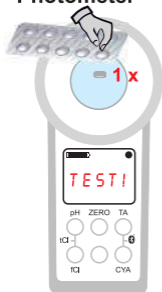


2

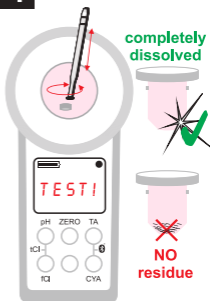
take 10 ml water sample



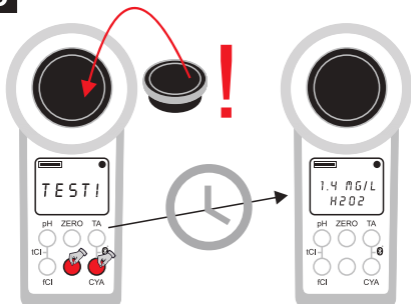
3 Hyd. Peroxide LR
Photometer*



4



5



Hydrogen Peroxide Waterstof peroxide Brintoverilte Hidrojen peroksit Пероксид водорода (HR)

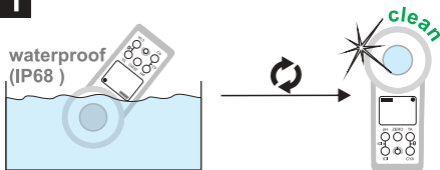
0 - 200 mg/l (ppm)

Hyd. Peroxide HR Phot.*

Acidifying PT*

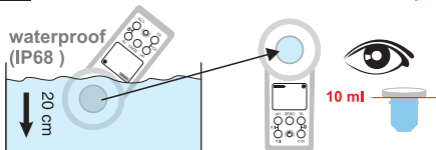
1

*not part of standard equipment



2

take 10 ml water sample



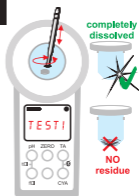
After / Na / Efter / Sonra / После ZERO
Hyd. Perox. • Waterstof perox. • Brintoverilte
Hidrojen peroksit • Пероксид водорода

3

Acidifying PT*



4

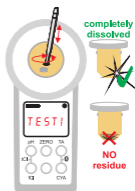


5

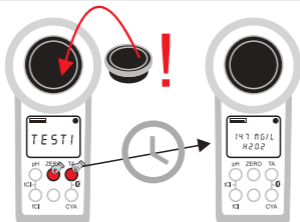
Hyd. Peroxide
HR Photometer*



6



7



Total Hardness Totale Hardheid Total hårdhed Toplam sertlik Общая твердость

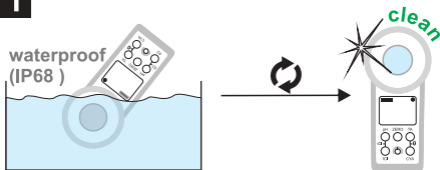
0 - 500 mg/l (ppm)

POL20TH1*

POL10TH2*

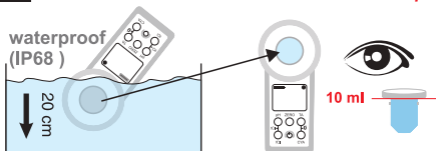
1

*not part of standard equipment



2

take 10 ml water sample

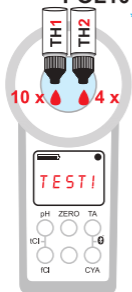


After / Na / Efter / Sonra / После ZERO
Total Hardn. • Totale Hardheid • Total
hårdhed • Toplam sertlik • Общая твердость

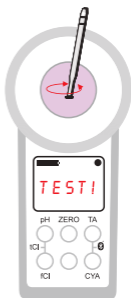
3

POL20TH1*
POL10TH2*

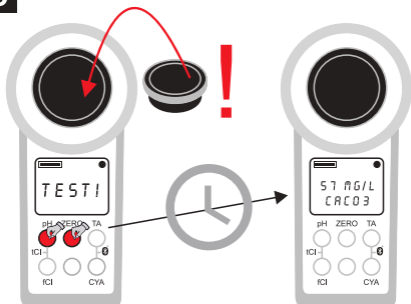
*shake
before
use!



4



5



Calcium Hardness Calciumhardheid Kalkhårdhed Kalsiyum Sertliđi Твердость кальция

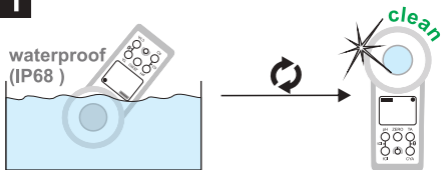
0 - 500 mg/l (ppm)

POL20CaH1*

POL20CaH2*

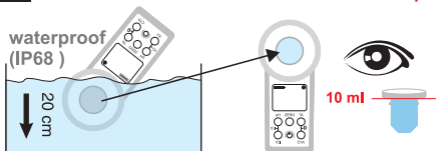
1

*not part of standard equipment



2

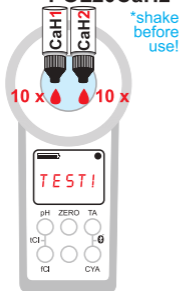
take 10 ml water sample



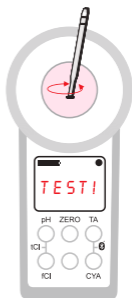
After / Na / Efter / Sonra / После ZERO
Calcium Hard. • Calciumhard. • Kalkhårdhed
Kalsiyum Sertliği • Твердость кальция

3

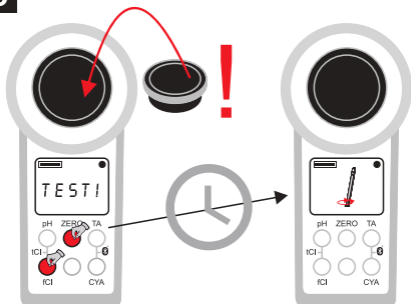
POL20CaH1*
POL20CaH2*



4

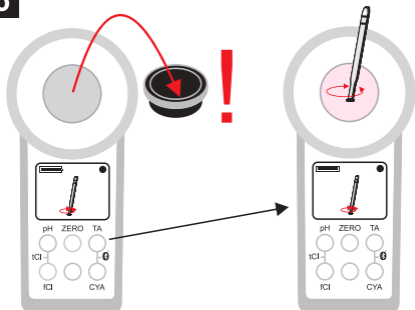


5

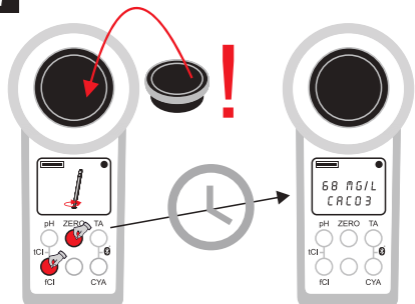


After / Na / Efter / Sonra / После ZERO
Calcium Hard. • Calciumhard. • Kalkhårdhed
Kalsiyum Sertliği • Твердость кальция

6



7



Hardness Conversion



	CaCO ₃ mg/l	°dH* (KH)	°e* (CH)	°f* (DC)
1 mg/l CaCO ₃	1	0.056	0.07	0.1
1 mmol/l K _{S4,3}	50	2.8	3.5	5.0

OR / Dilution • OR / Verwatering OR / Fortynding • OR / seyreltme OR / Разбавление

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 / UR = underrange Het resultaat van de meting valt buiten de meetwaardes van de photometer. Een meting met OR als resultaat kan door het verdunnen van het monsterwater wel binnen het bereik van de meting vallen. Verdun de meting door bijvoorbeeld 5 ml meetwater en 5 ml gedestilleerd water te testen en vermenigvuldig het resultaat met 2. Een verdunning van 1:10 kan natuurlijk ook en dan dient het resultaat met 10 vermenigvuldigd te worden. Verdunnen van het meetwater gaat NIET op voor de pH meting.

OR = Overrange / UR = Underrange. Test resultatet ligger udenfor måleområdet. OR målinger kan benyttes ved anvendelse af fortynding. Anvend en sprøjte til at tage kun 5 ml (eller 1 ml) prøvevand + 5 ml(9ml) destilleret vand. Test en gang til og gang resultatet med 2. (gang med 10). Fortyndingsmetoden virker ikke ved måling af PH.

OR = Aralık üstü / UR = Aralık altı
Test sonucu verilen aralığın dışında olması durumu. OR sonuçlara yanlış ölçüm sebebiyle varılabilir. Bu durumda şırınga ile 5ml test suyu alıp 5 ml saf su ile karıştırın. testi yeniden yapın ve sonucu 2 ile çarpın. Bu durum pH ölçümü için geçerli olmaz.

OR = Overrange / UR = Underrange.
Результат теста находится вне диапазона метода. Результаты OR могут быть приведены в диапазон измерения разбавлением. Используйте шприц, чтобы взять только 5 мл (или 1 мл) образца воды и 5 мл (9мл) дистиллированной воды. Повторите тест и умножьте результаты на 2 (на 10). Разбавление не применяется для параметра „pH“.

Error codes • Foutcodes • Fejlkoder Hata kodları • Коды ошибок



BAT!: Change batteries • batterijen vervangen • Skift batterierne • Pilleri deęiřtir • Замена батареек



Err02: (too dark) Clean measurement chamber or dilute sample • (Te donker) Clean meetkamer of verdunde monster • (for mørkt) Rengør målekammeret eller fortynd prøven • (Çok karanlık) Ölçüm odasını temizleyin veya numuneyi seyreltin • (Слишком темный) Почистить измерительную камеру или разбавить образец

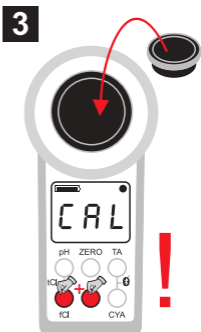
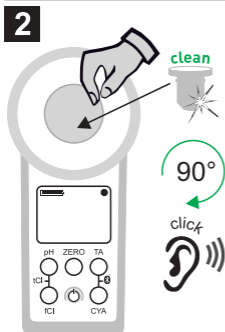
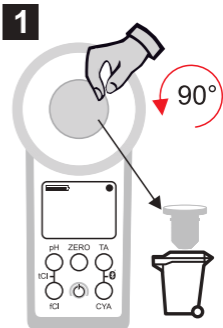
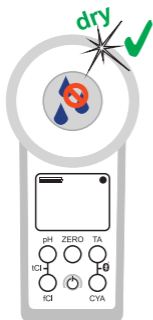
Err03: (too bright) Don't forget light shield during measurement • (Te licht) Vergeet niet lichtscherp tijdens de meting • (for lyst) Glem ikke lysskjold under målingen • (Çok parlak) Ölçüm sırasında ışık kalkanı unutmayın • (Слишком яркий) Используйте светозащитный колпачок во время измерения



Err04: Repeat ZERO and TEST • Herhaal ZERO en TEST • Gentađ ZERO og TEST • SIFIR ve TEST'i tekrarlayın • Повторите ZERO и TEST

Err05: Ambient temperature below -5°C or above 60°C • Omgevingstemperatuur onder -5°C of boven 60°C • Omgivende temperatur under -5°C eller over 60°C • -Ortam sıcaklığı -5°C altında ve ya 60°C üzerinde • Температура окружающей среды при -5°C или выше 60°C

Changing the cuvette • Het veranderen vande cuvette • Skift af kuvetten Küveti deđiřtirme • Замена кюветы



Accessories • Accessoires • Tilbehør Aksesuarlar • Аксессуары

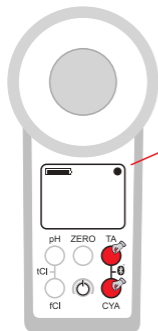
Reagents • Reagentia • Reagenser • Reaktifler • Реагенты

POL01-Nf	20/20/10/10/10 Phenol Red / DPD N° 1 / DPD N° 3 / CYA-Test / Alkalinity-M Photometer
TbsPph50	50 x Phenol Red Photometer
TbsPD150	50 x DPD N° 1 Photometer
TbsPD350	50 x DPD N° 3 Photometer
TbsPD450	50 x DPD N° 4 Photometer
TbsPCAT50	50 x CYA-Test Photometer
TbsPHP50	50 x Hyd. Peroxide LR Phot.
TbsPHPHR50	50 x Hyd. Peroxide HR Phot.
TbsHAPP50	50 x Acidifying PT Photometer
TbsPTA50	50 x Alkalinity-M Photometer
TbsHGC50	50 x Glycine
POL20TH1	20ml POLTH1 (50 tests)
POL10TH2	10ml POLTH2 (50 tests)
POL20CaH1	20ml POLCaH1 (50 tests)
POL20CaH2	20ml POLCaH2 (50 tests)

Spare parts • Reserveonderdelen • Reserveedele • Yedek parçalar • Запасные части

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

Software / App • Yazılım / Uygulama •
Программное обеспечение /
Приложение



- Bluetooth ON
- Bluetooth OFF

Windows/
MacOS: www.poollab.org



FAQ

www.poollab.org

MSDS


msds.water-id.com


Cloud

labconnect.cloud

LED: | 530 nm / 570 nm / 620 nm

 | 3 x AAA (1.5 V, LR03)

 | 300 sec.

 | 5 - 45°C

 | IP 68 (1 h / 1.2 m)

Developed in Germany
Produced in PRC

Tolerances

Active Oxygen • Actieve zuurstof
Aktiv ilt • Aktif Oksijen
Активный кислород

Range	±
0.0 - 5.0	0.5 mg/l
5.0 - 15.0	1.3 mg/l
15.0 - 25.0	3.8 mg/l
25.0 - 30.0	5.0 mg/l

Alkalinity • Alkaliniteit • Alkalitet
Alkalinite • Щелочность

Range	±
0 - 30	3 mg/l
30 - 60	7 mg/l
60 - 100	12 mg/l
100 - 200	18 mg/l
200 - 300	20 mg/l

Bromine • Broom • Brom • Бром

Range	±
0.0 - 2.5	0.2 mg/l
2.5 - 6.5	0.6 mg/l
6.5 - 11.0	1.7 mg/l
11.0 - 13.5	2.3 mg/l

Calcium Hardness • Calciumhardheid
 Kalkhårdhed • Kalsiyum Sertliđi
 Твердость кальция

Range	±
0 - 25	8 mg/l
25 - 100	22 mg/l
100 - 300	34 mg/l
300 - 500	45 mg/l

Chlorine • Chloor • Klor • Хлор

Range	±
0.00 - 2.00	0.10 mg/l
2.00 - 3.00	0.23 mg/l
3.00 - 4.00	0.75 mg/l
4.00 - 6.00	1.00 mg/l

Cyanuric Acid • Cyanoürzuur
 Cyanursyre • Siyanürik Asit
 Циануровая кислота

Range	±
0 - 15	1 mg/l
15 - 50	5 mg/l
50 - 120	13 mg/l
120 - 160	19 mg/l

Tolerances

Chlorine Dioxide • Chloordioxide
Klordioxid • Klor dioksit
Диоксид хлора

Range	±
0.00 - 2.00	0.19 mg/l
2.00 - 6.00	0.48 mg/l
6.00 - 10.00	1.43 mg/l
10.00 - 11.40	1.90 mg/l

Hydrogen Peroxide • Waterstof peroxide
Brintoverilte • Hidrojen peroksit
Пероксид водорода - (LR)

Range	±
0.00 - 0.50	0.05 mg/l
0.50 - 1.50	0.12 mg/l
1.50 - 2.00	0.36 mg/l
2.00 - 2.90	0.48 mg/l

Hydrogen Peroxide • Waterstof peroxide
Brintoverilte • Hidrojen peroksit
Пероксид водорода - (HR)

Range	±
0 - 50	5 mg/l
50 - 110	6 mg/l
110 - 170	11 mg/l
170 - 200	13 mg/l

Ozone • Ozon • Озон

Range	±
0.00 - 1.00	0.07 mg/l
1.00 - 2.00	0.17 mg/l
2.00 - 3.00	0.51 mg/l
3.00 - 4.00	0.68 mg/l

pH

Range	±
6.50 - 8.40	0.11 mg/l

Total Hardness • Totale Hardheid • Total hårdhed • Toplam sertlik • Общая твердость

Range	±
0 - 30	3 mg/l
30 - 60	5 mg/l
60 - 100	10 mg/l
100 - 200	17 mg/l
200 - 300	22 mg/l
300 - 500	58 mg/l

Disposal

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.



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 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.



CE compliance statement

We, the manufacturer of the PoolLab 1.0 Photometer hereby declare compliance of PoolLab 1.0 Photometer with the essential requirements in accordance to the Directive 2014/53/EU of the European Parliament and of the Council of April 16th, 2014:

ETSI EN 300 328 (V2.1.1)

EN 62479 (2010)

ETSI EN 301 489-1 (V2.1.1)

ETSI EN 301 489-17 (3.1.1)

EN 61326 (2013)

EN 61010-1 (2010)



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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada Licence-Exempt Radio Apparatus

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

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

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

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus

This device complies with FCC and Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must not be collocated or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites FCC et Industry Canada concernant l'exposition aux rayonnements RF établies pour le grand public. (Environnement non-contrôlé)

Cet émetteur ne doit pas être co-situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

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

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

CERTIFICATE OF COMPLIANCE

We hereby certify that the device

PoolLab 1.0

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

Water-i.d. GmbH (Germany)



Andreas Hock, Managing Director

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

Water-i.d. is certified according to ISO 9001:2016

S/N
Manufacturing date