锅炉水质化验箱

Boiler Water Quality TestTank

型号(Model)：G04-10

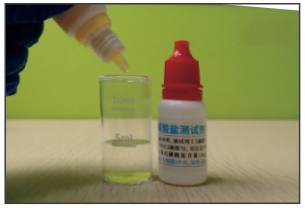
序号	产品名称	检测范围	功能
1	氯离子（Ⅰ） Chloride ion（Ⅰ）	20~400mg/L	检测水样氯含量 Detection of chlorine content in water samples
2	氯离子（Ⅱ） Chlorideion（Ⅱ）		
3	总硬度（Ⅰ） Totalhardness（Ⅰ）	10~100mg/L	检测水的总硬度 Detect water hardness
4	总硬度（Ⅱ） Totalhardness（Ⅱ）		
5	总碱度（Ⅰ） Totalalkalinity（Ⅰ）	10~200mg/L	总碱度含量检测 Total alkalinity contentdetection
6	总碱度（Ⅱ） Totalalkalinity（Ⅱ）		
7	总碱度(Ⅲ) Totalalkalinity(Ⅲ)		
8	磷酸盐（Ⅰ） Phosphate（Ⅰ）	0.03~3.0mg/L	磷酸盐含量检测 Phosphate contentdetection
9	磷酸盐（Ⅱ） Phosphate（Ⅱ）		
10	水质检测笔 Waterqualitytestingpen	A68	检测PH/TDS/EC/温度 Detect PH/TDS/EC/°C/°F
11	量杯 MeasuringCup	50ml*4	装水样量杯 Water sample measuring cup
12	移液器 Pipettes	10ml	移取水样 Pipette water samples

磷酸盐使用方法 Method of use ofphosphate



1、用待测水样冲洗量杯2次，用移液器量取5ml水样加入量杯中。

1、Rinse the measuring cup twice with thewater sample to be tested,and add 5ml of water sample to the measuring cup with a pipette.



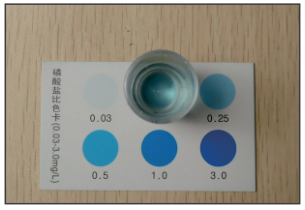
2、在量杯中滴入磷酸盐测试剂（Ⅰ）5滴，摇匀。

2、Drop 5 drops of Phosphate Test Agent (I) into the measuring cup and shake well.



3、再加入5滴磷酸盐测试剂（Ⅱ），摇匀。

3、Add 5 drops of Phosphate Test Agent (II) and shake well.



4、对照比色卡读取磷酸盐含量。

4、Read the phosphate content against the colorimetric card.

总硬度用方法 Method of use of total hardness



1、用待测水样冲洗量杯2次，用移液器量取10ml水样加入量杯中。

1、Rinse the measuring cup twice with thewater sample to be tested, and add 5ml of water sample to the measuring cup with a pipette.



2、在量杯中滴入1滴硬度试剂（Ⅰ）摇匀，溶液若为纯蓝色，说明水样硬度为0，若为紫红色或蓝紫色，继续步骤3。

2、Add 1 drop of hardness reagent (I) into the measuring cup and shake well.If the solution is pure blue, it means the hardness of the water sample is 0.If it is purple-red or blue-violet, go to step 3.



3、滴入硬度试剂（Ⅱ），间隔3秒滴1滴，滴入试剂后要摇匀，直至溶液由紫红色变纯蓝色，记录试剂（Ⅱ）消耗滴数，用(N)表示。

3、Add the hardness reagent (II) dropwise, and drop 1 drop every 3 seconds. Shake well after dropping the reagent until the solution changes from purple to pure blue. Record the number of drops of reagent (II) consumed,which is represented by (N).



4、总硬度=N*10mgL，（以CaCO3计）

4、Total hardness=N*10mg/L, (calculated as CaCO3)

氯离子使用方法 Method of use of chloride ion



1、用待测水样冲洗量杯2次，用移液器量取10ml水样加入量杯中。

1、Rinse the measuring cup twice with thewater sample to be tested, and add 5ml of water sample to the measuring cup with a pipette.



2、滴入1滴氯离子试剂（Ⅰ）摇匀，此时溶液变为亮黄色。

2. Add 1 drop of chloride ion reagent (I) and shake well, the solution turns bright yellow at this time.



3、滴入氯离子试剂（Ⅱ），间隔3秒滴加 1滴，滴入试剂后要摇匀，直至溶液变成橙色或沉淀是黄色，记录试剂（Ⅱ）消耗滴数，用(N)表示。

3、Add chloride ion reagent (II) dropwise, and add 1 drop at an interval of 3 seconds. Shake well after dropping the reagent until the solution turns orange or the precipitate is yellow, record the number of drops consumed by reagent (II), which is represented by (N).



4、氯离子含量=N*20（mg/L）

4、Chloride ion content = N*20 (mg/L)

总碱度使用方法 Method of use of total alkalinity



1、用待测水样冲洗量杯两次，用移液管取10ml水样，加入3滴碱性试剂（Ⅰ），摇匀。这时，溶液应该是红色的。如果是无色的，说明酚酞碱度值为0，进行步骤3。

1、 Rinse the measuring cup twice with the water sample to be tested, take a 10ml water sample with a pipette, add 3 drops of alkalinity reagent (I) and shake well. At this time, the solution should be red.If it is colorless, it means the phenolphthalein alkalinity value is 0, and proceed to Step 3.



2、摇动量杯滴入碱度试剂(Ⅲ)，间隔3秒滴入1滴试剂，直至溶液刚好无色，记录消耗试剂滴数，用(N1)表示。

2、 Shake the measuring cup to drop the alkalinity reagent (III), and drop 1 drop of the reagent at an interval of 3 seconds until the solution is just colorless. Record the number of drops of the reagent consumed,which is represented by (N1).



3、继续滴入3滴碱度试剂（Ⅱ）摇匀，溶液应变为绿色，若不变色，说明N2=0，则酚酞碱度=总碱度。

3、Continue to add 3 drops of alkalinity reagent (II) and shake well, the solution should turn green, if it does not change color,it means N2=0,
then phenolphthalein alkalinity = total alkalinity.



4、继续滴加碱度试剂(Ⅲ)，直至溶液由绿色变为暗红色，记录消耗试剂(Ⅲ)的滴数，用(N2)表示。

4、Continue to add the alkalinity reagent (III) dropwise until the solution changes from green to dark red, record the number of drops of the consumed reagent (III), represented by (N2).



5、计算方法：
酚酞碱度:N1*10mg/L
总碱度：（N1+N2)*10mg/L

5. Calculation method:
Phenolphthalein alkalinity: N1*10mg/LTotal alkalinity: (N1+N2)*10mg/L

参数 Parameters

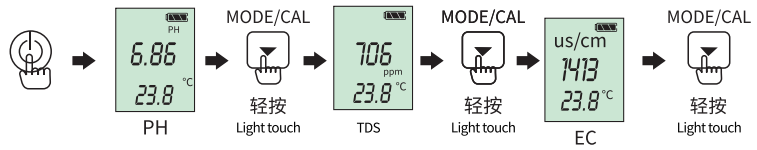
PH	范围(Range):0.01-14.00pH
	分辨率(Resolution):0.01PH
	精度 (Precision):±0.05PH
EC	量程:0-10000ps/cm,10.01-19.99mS/cm
	分辨率(Resolution):1us/cm;0.01mS/CM
	精度 (Precision):±2%F.S.
TDS	范围(Range):0-10000ppm
	分辨率(Resolution):1ppm
	精度 (Precision):±2%F.S.
校准 Calibration	pH:三点顺序校准.....如果不能识别溶液,请更换电极或联系客服 Three-point sequence alignment... .... If the solution can not be identified, replace the electrode or contact customer service
应用环境 ApplicationEnvironment	0-60.0°C (32.0-140°F) ;RH100%
温度量程 Temperaturerange	0.1-60.0°C32.0-140°F
防水 Waterproof	Ip67
电池 Batteries	4*1.5V (LR44)
屏幕尺寸 Screensize	26.8*21.2mm
尺寸重量 DimensionWeight	18.5*半径4cm/85g
显示 Showup	液晶数字显示 (LCD digital display)
背光 BackLight	有背光(It's backlit)
数据保持 Dataretention	数值保持 (Numerical retention)
自动关机 Automaticshutdown	5分钟 (Five minutes)
注意 PayAttention	每次使用后应清洗干净电极 (Clean the electrode after each use)

电极 Electrode

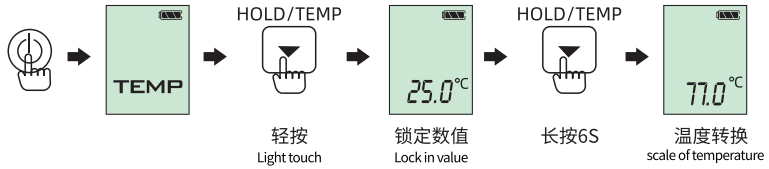


使用方法 Methodofuse

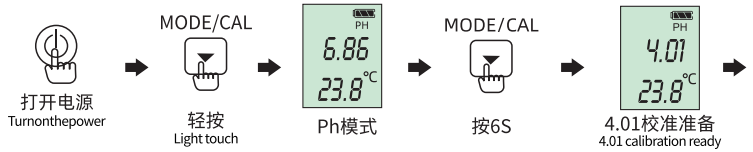
模式转换 Modeconversion



保持/温度.转换 Hold/temperature.Conversion

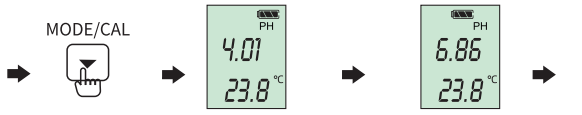


校准 Phcalibration



将电极没入4.01标准校准液

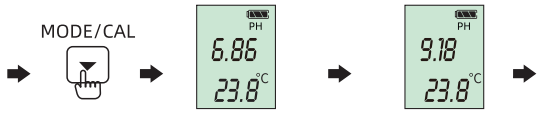
Submerge the electrode into the 4.01 standard calibration solution



完成4.01校准并进入6.86校准准备
4.01 calibration complete and go to 6.86 calibration ready

将电极头没入6 PH .86标准校准液

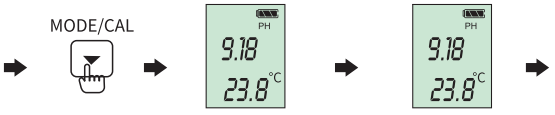
Dip The electrode head into the 6.86 calibration fluid



完成6.86校准并进入9.18校准准备
6.86 calibration complete and go to 9.18 calibration ready

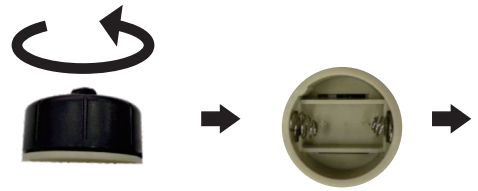
将电极头没入9.18标准校准液

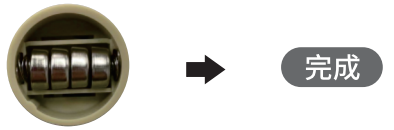
Dip The electrode head into the 9.18 calibration fluid



完成9.18校准
9.18 calibration complete

更换电池 Change the battery





更换电池 (注意正负极)
ReplaceBattery(notepositive andnegativeelectrodes)

注意事项 Points to note

1.此仪器出厂已校准过,直接使用即可;
2.使用完仪器后,用清水清洗干净,套上保护帽;
3.在测试过程中,轻晃几次,保证电极附近无气泡产生;
4.不要私自拆卸该仪器,以免破坏仪器;
5.使用过程中,仪器勿受潮,勿进水;

1.This instrument has been calibrated before leaving the factory and can be used directly
2. After using the instrument, clean it with clean water and put on the protective cap
3. During the test, Jiggle the electrode severaltimes to ensure that no bubbles are formed near the electrode
4. Do not dismantle the device without permissionas this may damage the device;
5. In the process of use,