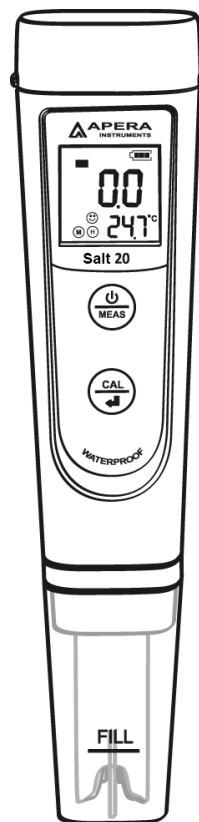


Salt20 Pocket Salinity Tester

Instruction Manual



APER A INSTRUMENTS, LLC

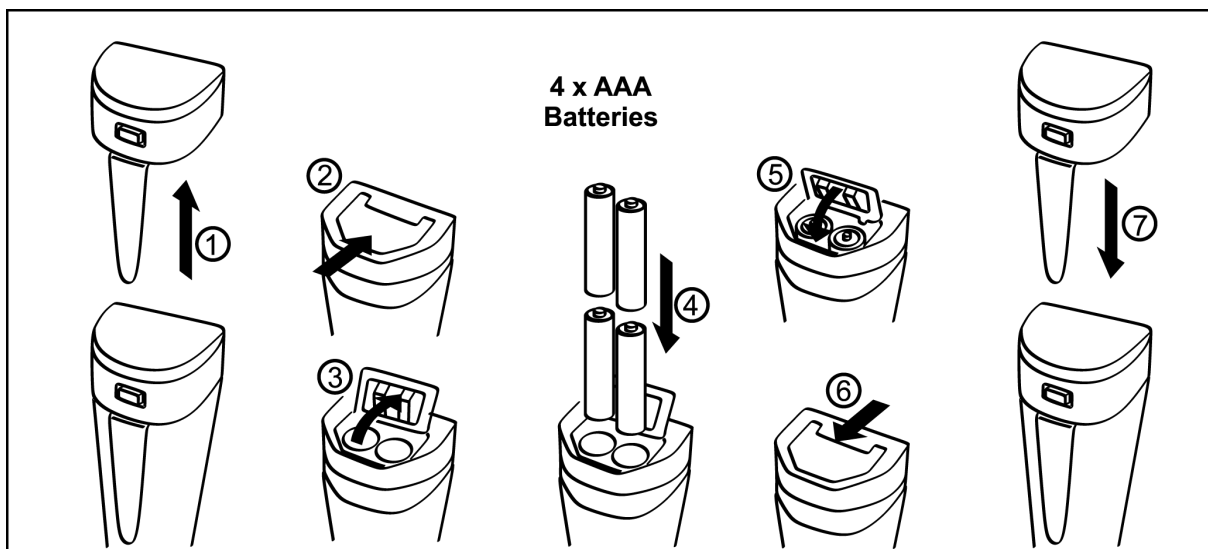
www.aperainst.com

Salt20 Pocket Salinity Tester Instruction Manual

1. Battery Installation

Please install batteries according to the following steps. Please note polarity:



“+” (anode) is upward; “-” (cathode) is downward



2. Keypad Functions

■ Short press----- < 2 seconds

■ Long press----- > 2 seconds

	<ol style="list-style-type: none"> 1. Short press to turn on, long press to turn off; 2. When turned off, long press to enter setup; 3. In mode setting, short press to change parameter;
	<ol style="list-style-type: none"> 1. When turned on, long press to enter calibration mode. 2. In calibration mode, short press to confirm calibration; 3. In mode setting, short press to confirm parameter selection.

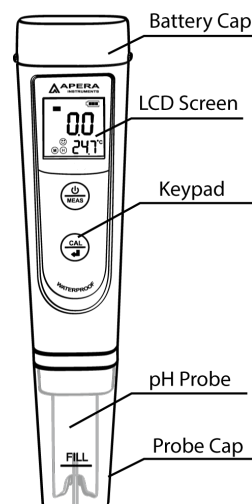


Diagram - 1

3. Complete Kit

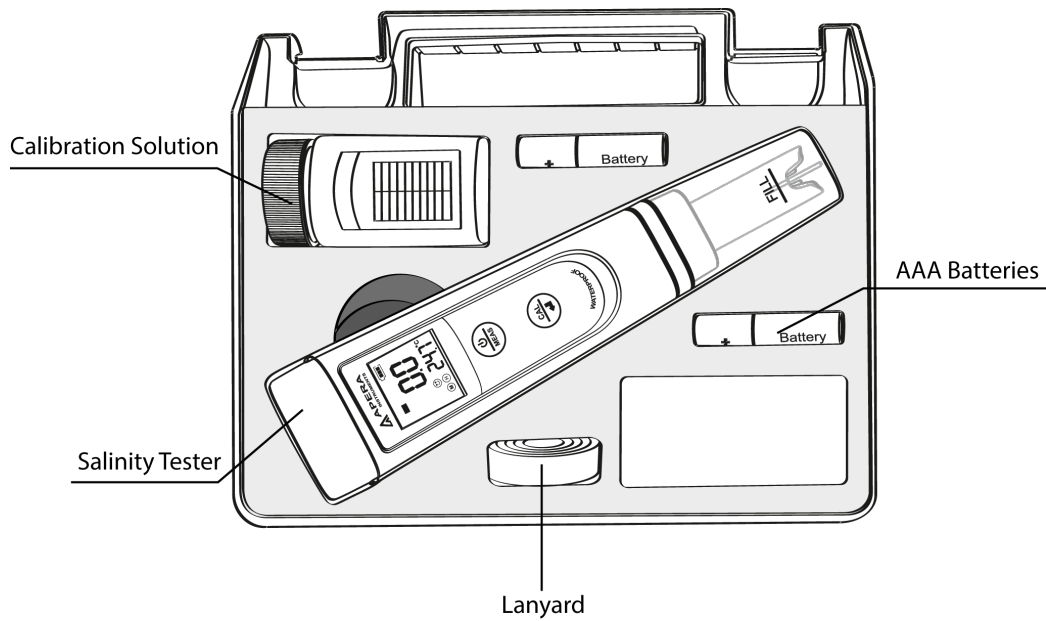



Diagram - 2

4. Calibration

4.1 Rinse the probe in distilled water and dry it. Short press  to turn on the tester.

4.2 Long press  to enter calibration mode; Short press  to exit.





4.3 Dip the probe into 5 ppt calibration solution. Stir gently, leave it to stand, LCD displays  (Diagram 3), short press  to complete 1-point calibration. The tester returns to measuring mode, and calibration icon  appears at the button left of LCD.



Diagram - 3



5. Salinity Measurement

5.1 Short press  to turn on tester. Rinse probe in distilled water and dry it.

5.2 Stir probe in the sample solution gently, leave it to stand. Get readings after the smile icon comes up and stays.

6. Notes

6.1 The tester has self-diagnosis functions:

Symbol	Self-Diagnosis information	How to fix
E_{r1}	Wrong calibration solution, which exceeds the recognizable range of the meter.	<ol style="list-style-type: none"> 1. Check if calibration solution is correct 2. Check if probe is damaged.
E_{r2}	 is pushed before measurement is stable (😊 comes up)	Wait for the smile icon to stay, and then short press 







6.2 The tester has already been calibrated after manufacture. Usually users can use the tester right away, or test it in the calibration solutions to test its accuracy. When error is large, calibrate it before using.

7. Parameter Setting

7.1 Parameter setting reference chart:

Symbol	Parameter Setting content	Code	Factory Default
P1	Select salinity unit	ppt – mg/L	ppt
P2	Restore to factory default	No – Yes	No

7.2 How to setup parameters:

When turned off, long press  to enter setup → short press  to switch P1-P2 → Short press , parameter flickering → short press  to choose, short press  to confirm parameter selection → Long press  to switch off.

7.3 Parameter setting notes

a) Select salinity unit(P1):

Optional units: ppt – mg/L, factory default is ppt.




b) Restore to factory default:

Select Yes to restore the calibration to the theoretical values and parameter setting to original values. When meter's calibration or measurement performs abnormally, this function can be adopted so the meter goes back to factory default setting and then users can conduct calibration or take measurements again.

8. Technical Specifications

Salinity	Range	0 – 10.00 ppt
	Resolution	0.01 ppt
	Accuracy	± 1% F.S
	Calibration points	1 point auto calibration
	Automatic Temp. Compensation	0-50°C
Temp.	Range	0-50°C
	Resolution	0.1°C
	Accuracy	± 0.5°C

9. Other Functions & Parameters

Indication of calibration points		Auto Power-off	Power-off in 8 minutes if no operation
Indication of stable measurements		Waterproof level	IP67, floats on water
Self-Diagnosis information	Er1, Er2	Power Supply	AAA batteries*4
Low battery reminder	 Flashes to remind to replace batteries	Battery Life	1000 hours
Dimensions/Weight	Instrument: 40*31*178mm/107g; Carrying case: 190*165*140mm/438g		

10. Warranty

We warrant this instrument to be free from defects in material and workmanship and agrees to repair or replace free of charge, at option of APERA INSTRUMENTS, LLC, any malfunctioned or damaged product attributable to responsibility of APERA INSTRUMENTS, LLC for a period of **two years** from the delivery (a **six-month** limited warranty applies to probes). This warranty does not apply to defects resulting from actions such as misuse (violation of the instructions in this manual or operations in the manner not specified in this manual), improper maintenance, and unauthorized repairs. Warranty period is the time limit to provide free service for the products purchased by customers, not the service life of the tester or probe.

Apera Instruments reserves the right to update the information in this manual without giving notice in advance.

APERA INSTRUMENTS, LLC

Address: 977 Old Henderson Rd, Columbus Ohio 43220

Tel: 1-614-285-3080

Email: info@aperainst.com

Website: www.aperainst.com