





Contents \bigcirc stoppe Fia. 6-2 NaCl 2.50% solution Fig. 6-3 Fig 6-4 ⊂**Z0.3**°C ĹĹĹ

7. Storage and Maintenance

- (1)Store this instrument in a dry and shaded area
- (2)Do not use organic solvents (paint thinner, benzene, gasoline, etc.) on the instrument because it will severely damage the casing.
- (3)Clean the electrode probe immediately after completing each measurement. Any sample
- left on the electrode probe for any extended period of time will damage the sensor or body. Clean the electrode probe with water and/or ethylalcohol and then dry any excess moisture with a clean, dry tissue.

8. Discrepancies with Mohr Method

Due to the difference in measurement principles, readings from the conductivity salt meters may not match up exactly with the readings by titration for certain samples. However, correlation between the two testing methods can be seen.

Offset feature use #1

Create a conversion chart between the two testing methods.



- the next decimal place. When the 1st place is confirmed with " II," the number selections for the decimal places are skipped. ⑦Press START to confirm the coefficient. *To disable the Offset feature.
- \rightarrow Hold the ZERO button for 5 seconds while setting up the Off-Set feature.
- Factory default value (a:1.00, b:0.00).
- *The measurement range is shifted according to the offset settings.

Screen images when offset is on

During - - example> Offset "b" =addition of 0.30 Aftor zero-setting with air

Factors that may affect measurement results

The detection method of this salt-meter is the conductivity method, and displayed value corresponds to salt concentration indicated in percentage (g/100g).

The measurement range is between 0.00 and 7.0% of salt concentration.

In case the solution sample only contains salt, the measured value corresponds to the actual salt concentration. However, in case of samples containing ingredients other than salt such as soy sauce and Worcester sauce, measurement results are lower than the actual salt concentration. The salinity of solutions containing ingredients other than salt cannot be measured correctly unless they are diluted.

It is advised to dilute samples whose Brix (which is soluble solid contents) is more than 6% containing ingredients other than salt 10 times as thin as the original solution and to measure the diluted solution (Brix is used to indicate quantity of soluble solid contents, and it is generally used as a unit of the refractometer to measure sugar content.) If a refractometer is available, measure Brix of the sample with it to check whether its Brix is 6% or more, or not.

Method of dilution

Example: diluting sample with water 10 times as thin as the original. 1) Add 90g of water to 10g of sample and dissolve the sample well by mixing. 2) Submerge the electrode probe in the sample solution and measure it. 3) The actual salt concentration in percentage (g/100g) is obtained by multiplying the indicated value by 10. Water 90g [Calculation] When "1.38" is displayed as a measurement value. Sample 10g $1.38 \times 10 = 13.8$ Actual salinity of this sample is 13.8%. Offset feature use #2 Input a coefficient (a) of 10, and the value multiplied by 10 will be displayed. Displayed value

> Making of reference solution (NaCl 2.50% solution)

∞ 20.3° 138

Necessary materials

Spoon (plastic) Syringe, stirring rod

Procedure

Note

relative error.

Distilled water... 100g

• High quality sodium chloride... 500g

Thus, a reference solution is made.

Beaker of 100mL (made of glass or plastics)

● Digital scale (measurement limit at least 200g, accuracy of ±0.01g)

(1)Put the beaker on the scale and adjust the pointer indication to 0.00g.

Measurement range	0.00 to 7.0% (g/100g) of salt concentration
	5.0 to 100°C
Resolution	0.01% (g/100g) for salt concentration of 0.00 to 1.99%
	0.1% (g/100g) for salt concentration over 2.0%
	0.1°C
Measurement accuracy	Displayed value $\pm 0.1\%$ (for salt concentration of 0.00 to 2.0%)
	Relative precision \pm ess than 5% (for salt concentration of 2.1 to 5.0%)
	Relative precision ±less than 10% (for salt concentration of 5.1 to 7.0%)
	%For brine
	±1°C
Sample temperature	5 to 30°C
Ambient temperature	10 to 40°C
Measurement time	Approx. 1 seconds
Backlight	The backlight stays on for 30 seconds after any button is pressed.
Maximum number of data history	100
Output	NFC Forum Type 4 Tag
	ISO/IEC 14443 Type A
Output category	Date Time, Salt [g/100g], Temp [degC]
	(e.g.) 2019/01/17 09:30:45, 2.3, 21.3
Power supply	Two (2) AAA alkaline batteries
Battery life	Approx. 4,000 measurements (when using alkaline batteries)
International protection class	IP65
Dimensions and weight	55 (W) × 31 (D) × 109 (H)mm, 100g (main body)
ATAGO's instruments are rigo	prousive inspected to ensure each unit meets the biobest standards of quality assurance
ATTIGO S INSTATIONIS ARE HERE INSPECTOR TO CHOME CAUT ATTICCTS THE HIGHEST STATUATUS OF QUALITY ASSULATED.	

Specifications

Repair and Warranty

The PAL-SALT PROBE is warranted for one year after the date of purchase against any manufacturer defect in materials or workmanship. Since the PAL-SALT PROBE is a precise electronic instrument, great care must be taken in the instrument's storage and use. If any mistreatment or misuse of the instrument is detected. the warranty will be voided and repair fees will be charged. The electrode pins and the electrode probe are excluded from the warranty. Ask your supplier for more details

Have the serial number of your PAL-SALT PROBE available when asking about repairs.

CE Declaration

The product is in conformity with the requirements of the EMC Directive 2004/108/EC.

Patent Granted in Japan, United States, Germany, China and Taiwan.

ATAGO CO., LTD. OATAGO INDIA Instruments Pvt. Ltd.

Headquarters: The Front Tower Shiba Koen 23rd Floor 2-6-3 Shiba-koen, Minato-ku Tokyo 105-0011, Japan TEL: 81-3-3431-1943 FAX:81-3-3431-1945 ATAGO U.S.A., Inc.

TEL: 1-425-637-2107

CATAGO THAILAND Co., Ltd. TEL: 66-21948727-9 ,66-21171549 CATAGO BRASIL Ltda. TEL: 55 16 3913-8400 CATAGO ITALIA s.r.l. TEL: 39 02 36557267 customerservice@atago-italia.com

TEL: 91-22-28544915 / 40713232

ATAGO CHINA Guangzhou Co., Ltd. TEL: 86-20-38108256 ATAGO RUSSIA Ltd. TEL: 7-812-777-96-0 CATAGO KAZAKHSTAN Ltd. TEL: 7-727-257-08-95 info@atago-kazakhstan.com

(2)Put 2.50g of sodium chloride into the beaker. (3)Pour distilled water into the beaker until the scale reads 100.00g. (4)Take the beaker out of the scale and shake it well until the ingredients completely dissolve into the water ●When making a reference solution, do it at a room temperature of 20°C±5°C. Unit of salt is mass-to-mass (W/W) in percentage. It is recommended to make 100g of reference solution in total at a time, otherwise it causes increase in Reference solution should be stored in an airtight container. High quality sodium chloride is obtainable at a pharmacy.