"I have never used a salt meter."

A wide variety and price range of salt meters are available online. ATAGO is your dietary salt reduction partner. Learn how the PAL-SALT is unlike any other salt meters on the market.

"I have used/am currently using a salt meter."

Users of conventional salt meters are often concerned with the durability of the instruments as well as the repeatability and accuracy of the readings. ATAGO's PAL-SALT was developed to satisfy the demand for a reliable product.

Why choose ATAGO?

Reliability

Longevity

"My salt meter broke after a short while."

Conventional gold-plated electrodes may be scratched/worn off over time, which causes erroneous readings.

The electrode of the PAL-SALT is made of titanium, which is more resistant than gold. Equipped with the full-body water resistance, it can withstand harsh environments, such as an industrial kitchen

ATAGO's resolve to create an instrument distinguished from other flimsy, practically disposable salt meters on the market has been realized

Whenever you have questions or problems, our technical support services team will be happy to assist you.

"The readings fluctuate with hot, oily soups."

At first glance, dip-type salt meters may seem easy to use. However, users of those dip-type salt meters are often unhappy with

inaccurate readings caused by unreliable temperature compensation.

On the other hand, the PAL-SALT has a basin-shaped sensor on which food samples are placed.

It will provide reliable readings for any sample including hot, oily soups.

Calibration

"I am not sure if my salt meter is measuring accurately."

Calibration is the inspection of an instrument to make sure that it is performing as it should

Is your salt meter calibratable? The PAL-SALT is. When the readings seem to be off, it can be checked and corrected for any errors by you

ATAGO is also a JCSS-approved manufacturer and provides full calibration services. From manufacturing to sales and support, ATAGO has been and will continue walking side by side with our customers.

ติดต่อบริษัท นี่โอนิคส์ จำกัด

Tel: 098-479-5684 หรือ 061-8268939 E-mail: sale@tools.in.th หรือ sale@neonics.co.th

Specifications

PAL-SALT	Cat.No.4250
Measurement range	0.00 to 10.0% (g/100g) of salt concentration
	5.0 to 100°C
Resolution	0.01% for salt concentration of 0.00 to 2.99%
	0.1% for salt concentration of 3.0 to 10.0%
	0.1°C
Measurement accuracy	Displayed value ±0.05%
	(for salt concentration of 0.00 to 0.99%)
	Relative precision ±5%
	(for salt concentration of 1.00 to 10.0%)
	±1°C
Sample temperature	5 to 100°C
Ambient temperature range	10 to 40°C
Sample volume	At least 0.6ml
Measurement time	Approx. 3 seconds
Power supply	Two (2) AAA alkaline batteries
Battery life	Approx. 8,000 measurements (when using alkaline batteries
International Protection class	IP65
Dimensions and weight	55(W)×31(D)×109(H)mm,100g (main unit only)

Off Set function

Features the offset function which enables the programming of a coefficient to automatically convert measured values. Able to directly display measurement value correlated to other principles, such as titration. By setting the dilution factor, the original salt concentration can be directly displayed.

Simple 3-second Measurement



to be measured onto button.

the sample stage.



seconds

B Result Apply the samples Press the START Measurement value

Oily/fatty food

is displayed in 3

Measurement Method Depending on the type of sample (food to be measured), different preparation may be required.

Liquids that are drinkable as is

Thin and watery liquids, such as broth, can be measured by placing a few drops directly on the sensor and pressing START.

Making a 10% Dilution

Always measure your food and

water by weight.



Thick liquids, pastes

Sauces, soup bases, gravies need to be diluted to 10%. If it is not drinkable as is (anything above 6% Brix with a refractometer), dilute it. The PAL-SALT measures the conductivity of electrolytes. The thicker a solution is, the more tightly the molecules are positioned, and therefore, the less conductive and the more difficult it is to measure. The readings, if not diluted, may be lower than the actual salt content

1. Weigh the food.

Place approximately 10g

of food in a container on

a scale.



2. Dilute.

Add water until the

total weight is 10 times

98.0

the amount of food.

Salty foods (above 10% salt)

Products that contain more than 10% salt, such as pickle brine, need to be diluted. For example, the 10% dilution of a 12% salt brine will measure 1.2%, and the 20% dilution will measure 6%. Adjust the dilution factor so that the salinity falls within the measurement range.



Solid foods

Solid foods (ham, bacon, dried foods, fish, and potato chips) need to be minced, ground, or crushed, diluted with water (1:10 dilution), and mixed thoroughly. As a general guideline, let sit for a few minutes (approx. 3 minutes) to allow the salt to leach out of the food. Depending on the qualities of the sample (whether or not the salt is easily drawn out into the water), the salt concentration of the food, the mincing or crushing method, or how well the sample is mixed with the water, the time needed for the salt to be drawn out into the water will vary. Set a soaking period that works for each product (that allows the salt to be thoroughly drawn out). Measure the salinity of the water and multiply the reading by 10. The PAL-SALT PROBE also has a probe sensor that can b inserted directly into the solid sample for measurement

Preparing Solid Foods *Varies by type







www.tools.in.th



3. Stir. Mix well

ATAGO

ZERO

PAL-SALT

0~10g/100a

START

Pocket

SALT METER

Parts

Sample Stage Apply the samples to be measured.

LCD

Displays large, easy-to-read numbers

START Button Takes a measurement

ZERO Button Zero-sets with air nothing on the sensor

Lanyard Hole Lanyard sold separately

> Batterv Compartment 2 × AAA batteries



If the readings fluctuate when measuring oily/fatty samples, try stirring the sample on the sensor while measuring for more stable readings. When measuring the salinity of oil-packed products, extract the sample from the oil and allow excess oil to drain. Mix 10 grams of sample with 90 grams of water to create a 10% dilution. Mix or shake very well and let settle. Residual oil should float to the top of the container. Take a sample from below the oil layer and place on the sensor. Multiply the displayed reading by 10 to obtain the salt concentration of the original sample.





Calculating Salt Content from Nutrition Label

The sodium (Na) content is indicated on most packaged food products. Calculate the salt (NaCl) content by the following formula:

NaCl (g) = Na (mg) × 2.54 / 1000

Chloride Titration (Mohr Method)

Titration with silver nitrate measures chloride ion concentrations. The PAL-SALT uses conductivity. Both methods measure the salt %, but the measurement principles are different, and therefore, the readings may not always match up.