

DOCKET NO. SA 516

EXHIBIT NO. 8G

**NATIONAL TRANSPORTATION SAFETY BOARD**

**WASHINGTON, D.C.**

ATAGO CO., LTD. SALINITY REFRACTOMETER, MODEL S-10  
INSTRUCTION MANUAL

by

Gordon J. Hookey

# ATAGO

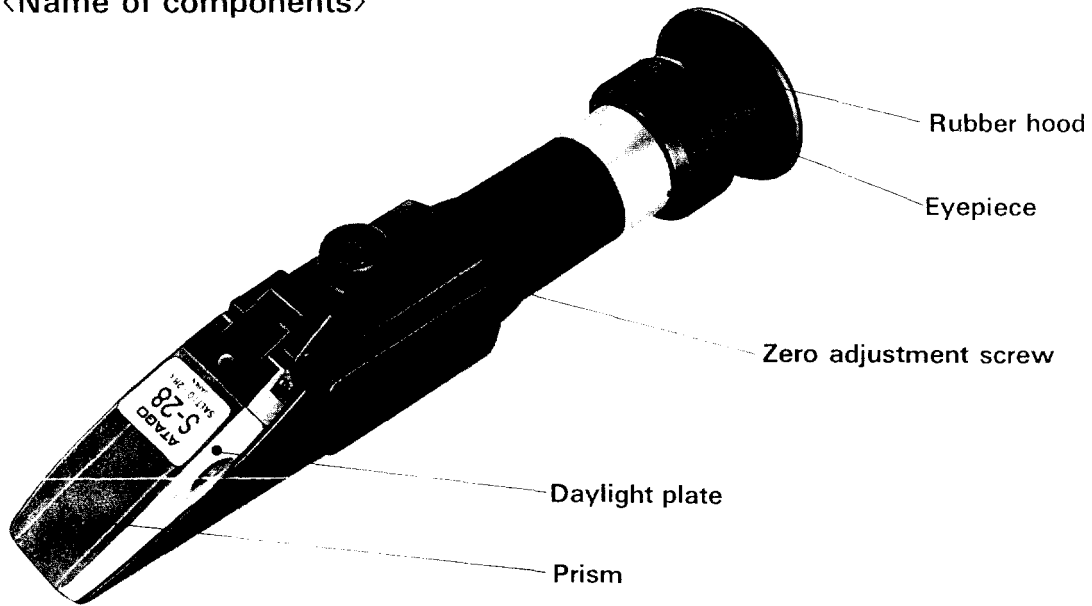
2411-W04

<b>Instruction Manual</b> <b>Salinity Refractometers</b>	<b>S-10 Cat. No. 2411</b> <b>S-28 Cat. No. 2421</b>
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**CAUTION**

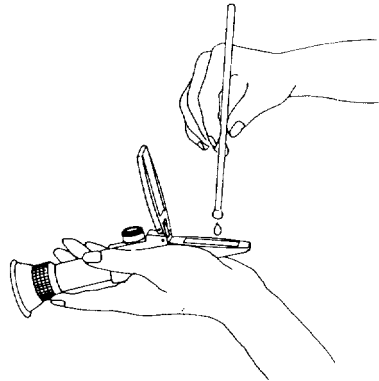
Wipe clean the prism surface and the daylight plate with water-impregnated soft cloth or tissue paper. Do not hold the prism surface directly in a water stream of water pipe, etc.

<Name of components>

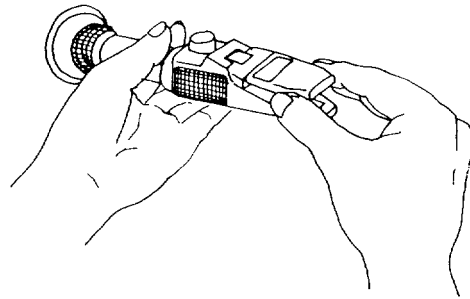


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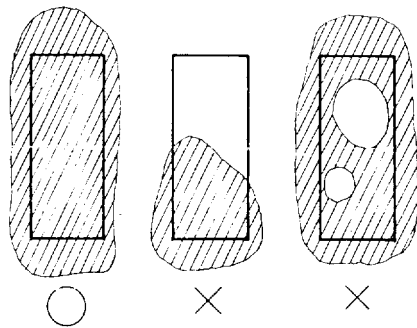
## ● MEASURING METHOD ●



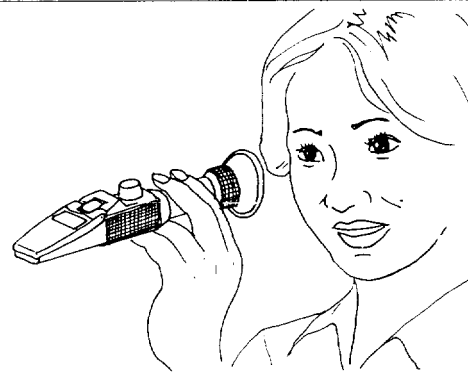
**1** Put one or two drops of sample on the prism.



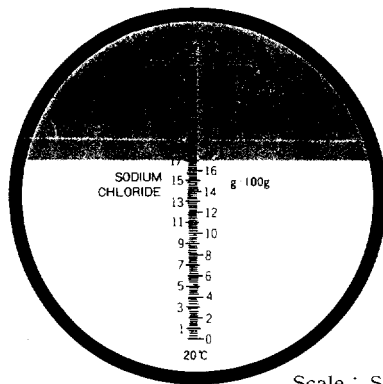
**2** Close the daylight plate gently.



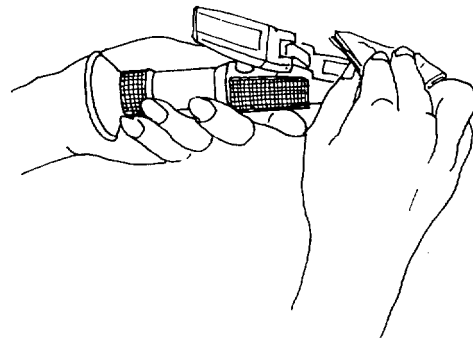
**3** The sample must spread all over the prism surface.



**4** Look at the scale through the eyepiece.



**5** Read the scale where the boundary line intercepts it.

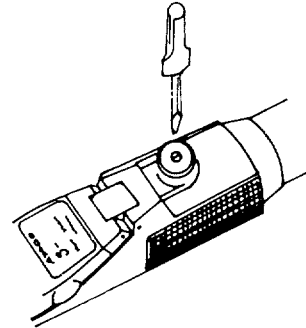


**6** Wipe clean the sample from the prism with a tissue paper and water.

**<Calibration of the scale>**

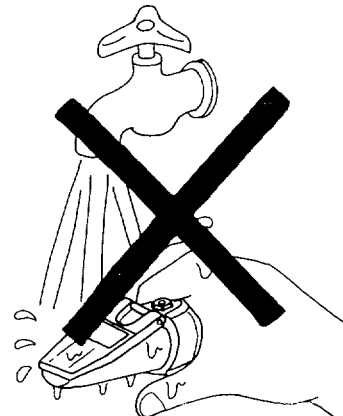
Check a sample of water which has been left to stand for a period in the room (the water temperature should be the same as the room temperature) regardless of the measuring temperature. Set the boundary line to zero by using the zero adjusting screw for calibration. Then measure the sample, and note the scale reading which can be taken as the true value.

Variations in room temperature may cause an error, so it is recommended that the zero-setting be checked at intervals of 20 minutes using the test water mentioned above.



**<Instructions for use>**

1. Care should be used not to fall down nor roughly handle the refractometer as it is a precision optical instrument.
2. Handle the prism with care as it is susceptible to scratches.
3. After use, clean the prism surface and the lighting plate with a soft paper dampened with water and then with a dry cloth.
4. An oily prism surface repels sample and does not correct measurement. Wipe the prism with a soft paper dampened with warm water.



\*Never splash water on the unit.

**<食塩濃度g/100g ↔ g/dl 換算グラフ>**

**<Conversion Table for concentration of Sodium Chloride g /100g ↔ g/dl >**

