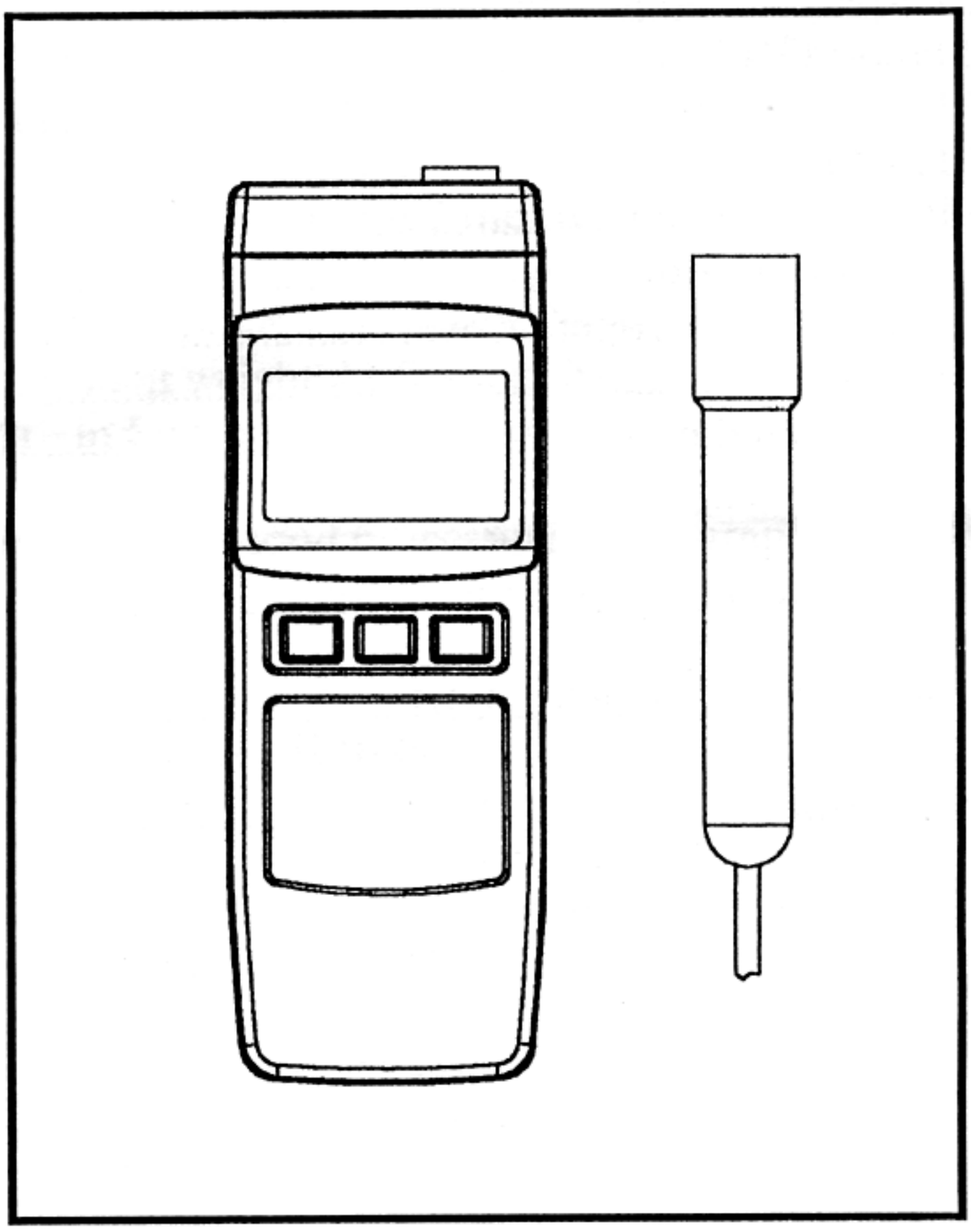
SALT METER

Model : YK–31SA



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1. FEATURES

* Separate electrode, easy operation.
* The portable Salt meter provides fast, accurate readings, with digital readability and the convenience of a remote probe separately.
* Measuring range : 0 to 10 % salt (% weight).
* LCD display for low power consumption & clear read−out even in bright ambient light condition.
* Automatic temp. compensation for the probe.
* Water resistance on the front panel.
* All function keys are used the rubber button.
* Data hold.
* Used the durable, long−lasting components, including a strong, light weight ABS−plastic housing case.
* Built−in Low battery indicator.
* Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college.

2. SPECIFICATIONS

Display	Large LCD display, 21.5 mm digit height. Max. display count no. 1999..
Measurement & Range	0 to 10 % salt (% weight).
Resolution	0.01 % salt.
Accuracy *(23 ± 5 °C)*	± 0.5 % salt value
Sampling Time	Approx. 0.4 second.

Data Hold	To freeze the measured value on the display.
Temperature Compensation	Automatic, 0 °C to 50 °C (32 °F to 122 °F)
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Max. 80% RH.
Power Supply	DC 9V battery (heavy duty type). 006P, MN1604 (PP3) or equivalent.
Power Current	Approx. DC 5 mA.
Weight	270 g/0.60 LB (w/battery & electrode).
Dimension	*Meter :* 200 x 68 x 30 mm (7.9 x 2.7 x 1.2 inch).
	Probe : Round, 22 mm Dia. x 120 mm length.
Accessories Included	Instruction Manual.....1 PC. Salt probe.....1 PC.
Optional Accessories	Soft Carrying case with sash.....CA−05A Hard carrying case.....CA−06

3. FRONT PANEL DESCRIPTION

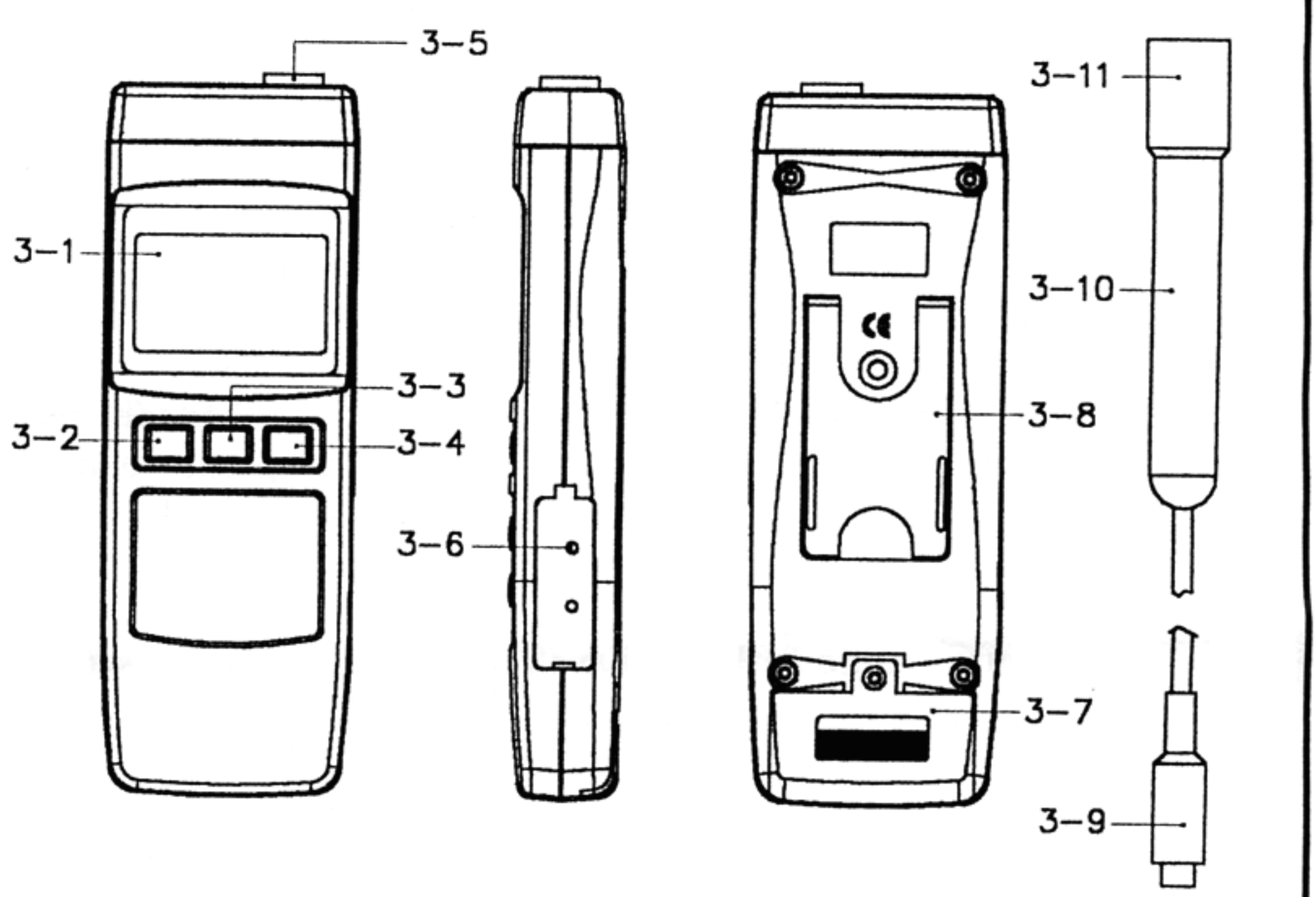


Fig. 1

3–1 Display
3–2 Power ON Button
3–3 Power OFF Button
3–4 Hold Button
3–5 Probe Input Socket
3–6 Calibration Adjust VR
3–7 Battery compartment/Cover
3–8 Stand
3–9 Probe Plug
3–10 Probe Handle
3–11 Probe Head

4. MEASURING PROCEDURE

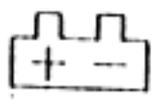
1) Connect the " Probe Plug " (3−9, Fig. 1) to the " Probe Input Socket " (3−5, Fig. 1).
2) Power on the instrument by pressing the " Power ON Button " (3−2, Fig. 1).
3) a. Hold the " Probe Handle " (3−10, Fig. 1) by hand & immerse the let the " Probe Head " (3−11, Fig. 1) wholly into the measured solution.
   b. Shake the Probe several time to let the air bubble leave away from the Probe Head until the reading value reach stable. Display will show the salt values (% weight).
4) The Probe Head build in the temperature sensor for the usage of automatic Temp. compensation. if the temperature of measured salt solution is changed, then it should take few minutes to let the display reading reach the stable value.
5) Press the " Hold Button " (3−4, Fig. 1) will hold the measured value & the LCD will indicate a " HOLD " symbol on the display during the measurement.
   Press the " Hold Button " again to exit the data hold function.

5. CALIBRATION PROCEDURE

When calibrate the instrument, please according the following procedure :

1) Prepare a " 8.0 % weight salt Solution " (For example, 100 g salt solution contain 8 gram salt).
2) a. Hold the " Probe Handle " (3−10, Fig. 1) by hand & immerse the let the " Probe Head " (3−11, Fig. 1) wholly into the measured solution.
   b. Shake the Probe several time to let the air bubble leave away from the Probe Head until the reading value reach stable.
   c. Adjust the " Calibration Adjust VR " (3−6, Fig. 1) until display show the value same as 8.00 exactly.

6. REPLACEMENT OF BATTERY

1) When the left corner of LCD display show the indicator "  ", it is necessary to replace the battery. However, in−spec measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.
2) Slide the " Battery Cover " (3−7, Fig. 1) away from the instrument and remove the battery.
3) Replace with 9V battery, heavy duty type, 006P, MN1604 (PP3) or equivalent. and restate the cover.
4) Make sure the battery cover is secured after change the battery.