

Eutrophication Meter (Measurement of nitrogen and phosphorous)

HC-1000



An in crease in nutritious substances in water gives rise to abnormal growth of water-bloom or red tide. This in turn gives rise to harmful effects, for example, giving foul smell to drinking water and causing death to fish. This is a portable photoelectric instrument allowing quick and easy quantification of the phosphorus and nitrogen content of the water. Both sustances are factors that regulate the growth of plant plankton.

Set

 Deluxe Type Standard accessories Autohandling pipette

Carrying case

 A Type Standard accessories

Autohandling pipette

B Type

Standard accessories

Features

- Measurements are obtained by merely adding a special reagent and are displayed on a digital display to ensure no misreading.
- Per-measurement cost is very low.
- Can be operated on AC or DC power.

■Specifications

Measuring items:

Nitrous acid nitrogen (NO₂-N) Nitric acid nitrogen (NO₃-N) Ammonia nitrogen (NH₄-N) Inorganic phosphate (PO₄-P)

Measuring range:

Nitrous acid nitrogen: 0-0.2 mg/L. 3 digits below decimal point. Nitric acid nitrogen: 0-2.0 mg/L. 2 digits below decimal point.

Ammonia nitrogen: 0-0.7 mg/L. 2 digits below

decimal point. Inorganic phosphate:

0-1.0 mg/L. 2 digits below decimal point.

Measuring accuracy:

Nitrous acid nitrogen: ±0.01 mg/L. about 10 minutes of coloration time. Nitric acid nitrogen: ±0.05 mg/L. about 5 minutes of coloration time. Ammonia nitrogen: ±0.02 mg/L. about 20 minutes of coloration time. Inorganic phosphate: ±0.02 mg/L, about 20 minutes of coloration time.

Measuring method:

Absorptiometry using coloration reagent.

Light source:

Light-emitting diode (LED), switching system Green (central wavelength: 555nm) for NO2-N and NO3-N

measurement

Red (central wavelength: 695nm) for NH4-N, PO4-P measurement

Light sensor:

Silicon Bluecell

Display:

Direct display of concentration in mg/L units. 3-digit digital.

Power supply:

Can be operated on either DC or AC power (battery: Ni-Cd UM-3 \times 4). AC: 100V, 50/60Hz,

Approx. 3VA

DC: UM-3 Ni-Cd × 4 (usable during recharge)

Dimensions:

160(W) × 255(D) × 130(H)mm

Weight:

Approx. 2.9kg

*The combined use of the decomposition unit (autoclave) allows total nitrogen and total phosphorus to be measured.



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