

Site-type Water quality meter **H-1 Series**
Ammonia Nitrogen Meter
HC-200NH

Continuous measurement of
ammonia nitrogen concentration
by ion electrode method

For aeration optimisation in aeration tank

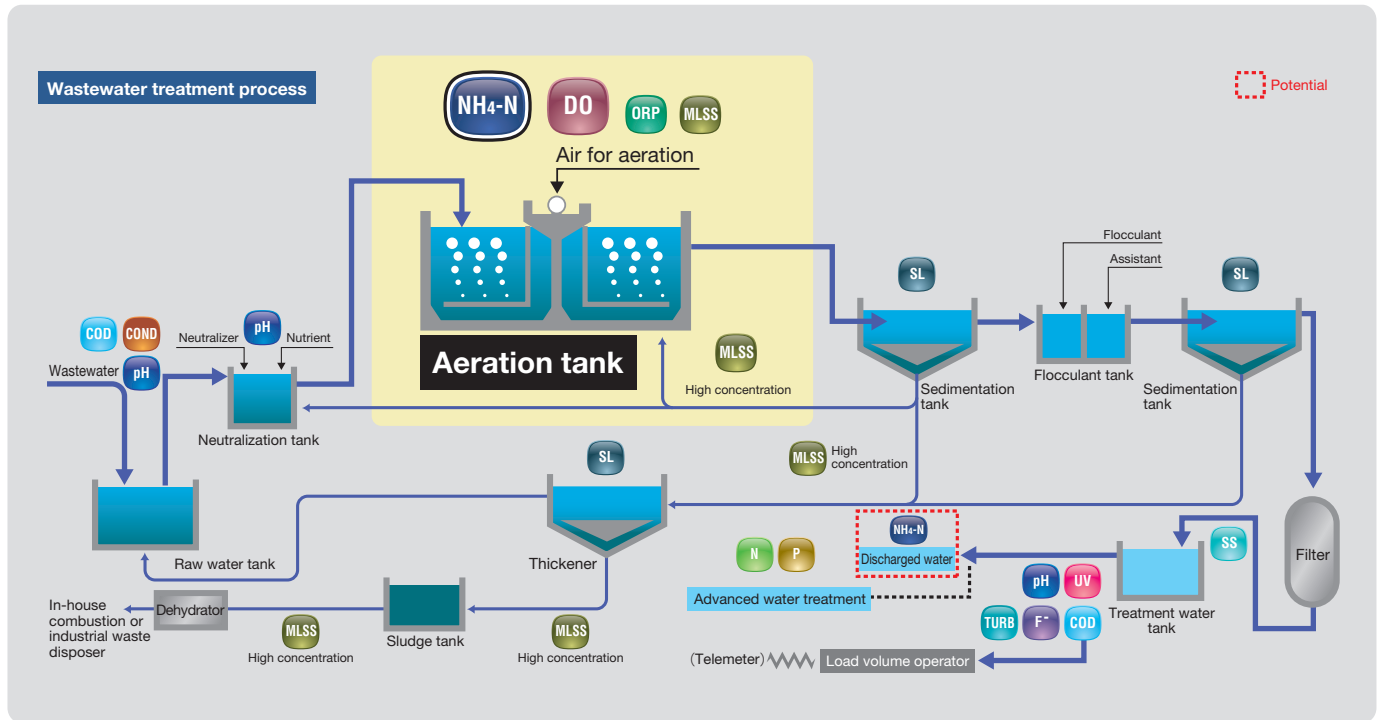


Ammonia nitrogen sensor
AM-2000



Transmitter
HC-200NH

HC-200NH is an ammonia nitrogen(NH₄-N) meter using ion electrode method which is designed for aeration control in wastewater treatment.



If you are interested in using the HC-200NH in other process such as discharged water, please contact us.

Intelligence

- Sensor deterioration diagnostic during measurement *2
- Optical DO sensor connectable (optional)
- Sample adjustment function
- Automatic potassium ion concentration compensation

Easy maintenance

- Replaceable chip without the need for tools
- Combination with new-type ultrasonic cleaner improves antifouling property (optional)
- Flat sensor surface (prevents bubble and stain accumulation) *2
- No measurement reagent necessary

Tough

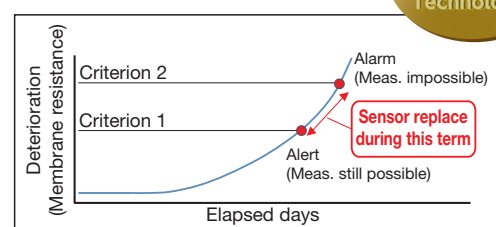
- The ion sensor enables long term stable measurement
- New ion chip internal solution enables stable measurement (Japan patent No. 5144829)
- New structure of reference chip achieves stability measurement *1

*1: patent applied

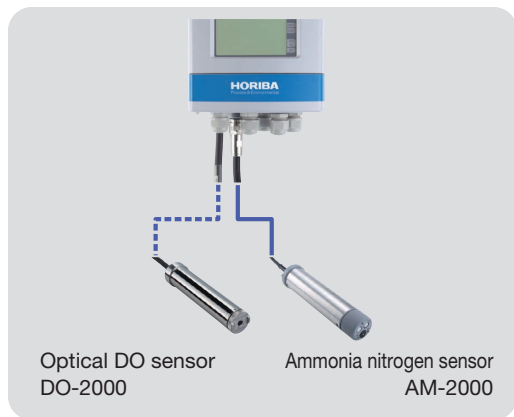
*2: patent applied with Bureau of Sewerage Tokyo Metropolitan Government.

Intelligence Self diagnostic function

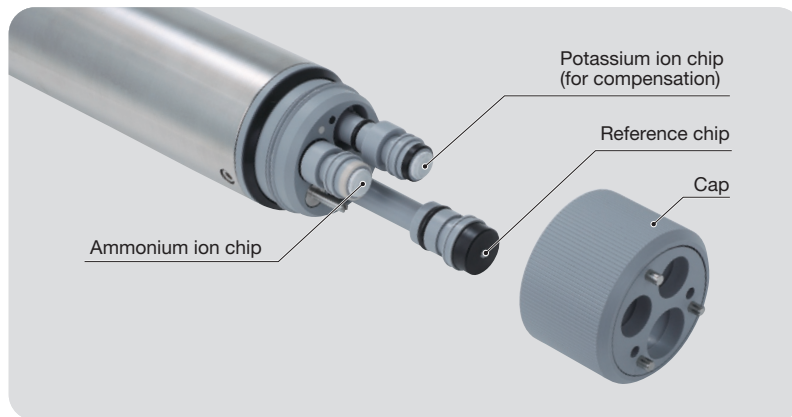
Deterioration diagnostic function during continuous measurement. This function reduces the risk of sudden loss of measurement and provides more reliable measurement.



Intelligence Dual channel transmitter



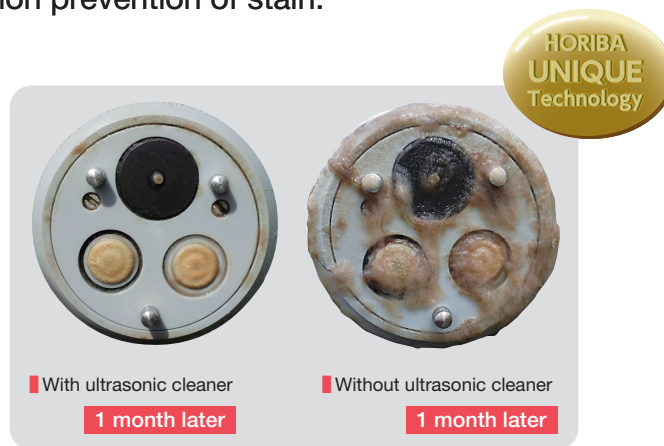
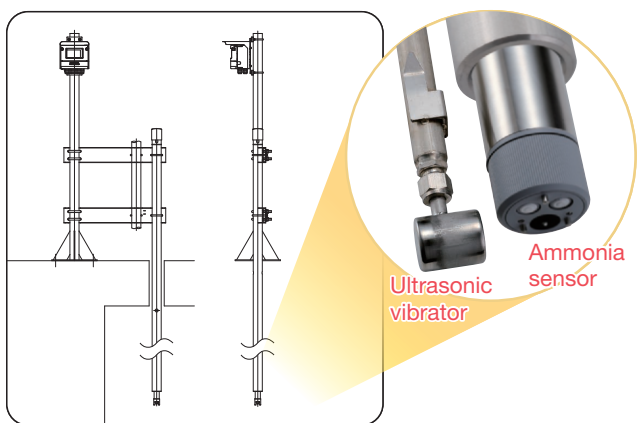
Easy Maintenance Replaceable chip without the need for tools



Easy Maintenance Unique Ultrasonic Cleaner (UH-16A series)

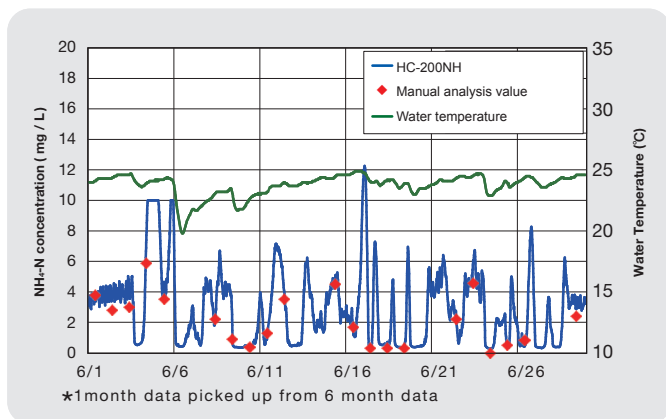
Burst oscillation method

Enables continuous cleaning without damaging sensor, and long term adhesion prevention of stain.

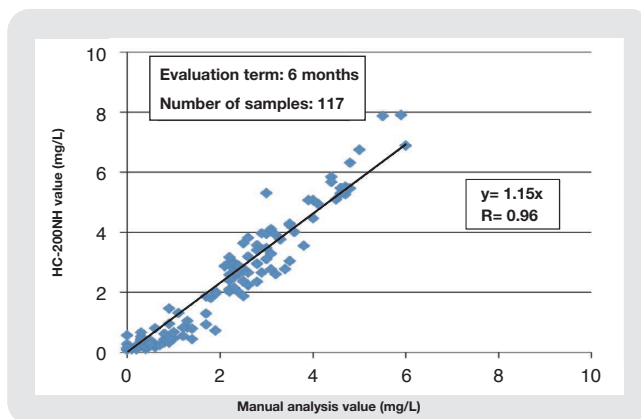


Tough Long term stable measurement

Field test result



Correlation from field test result



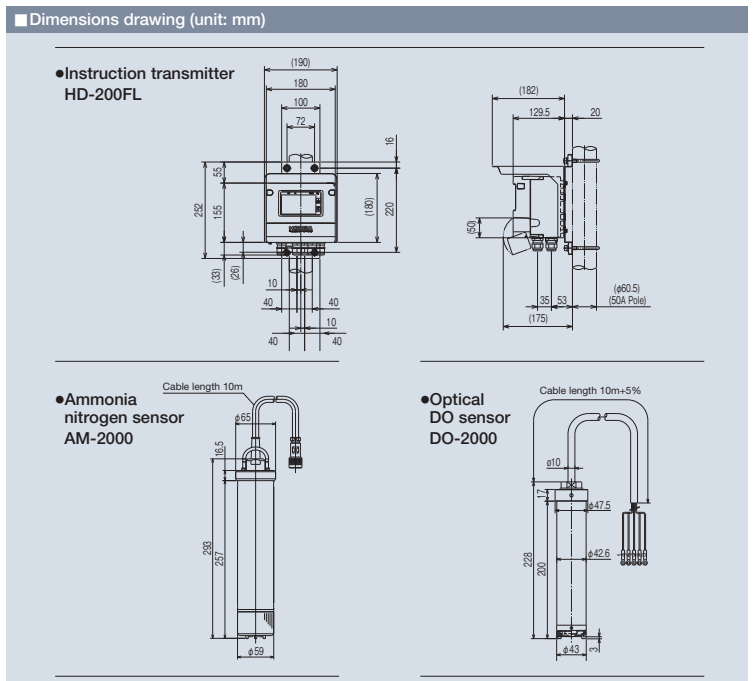
Data from joint research with Bureau of Sewerage Tokyo Metropolitan Government

Evaluation Term: 6 months, **Application:** Aeration tank in Tokyo, **Optional:** Ultrasonic cleaner

Maintenance: Once a month (Wash sensor with water and sample adjustment),

Result: Stable measurement for 6 months without sensor replacement

■ Instruction transmitter specifications	
Model	HC-200NH
● Ammonia nitrogen meter specifications	
Combination sensor unit model	AM-2000
Sensor model	7691*: Ammonium ion chip, 7692*: Potassium ion chip for compensation, 7211: Reference chip
Measurement range	NH ₄ -N: 0~1000mg/L (display range: 0~2000mg/L) Temperature: 0~40°C (display range: -10~110°C)
Display resolution	NH ₄ -N: 0.01mg/L: 0.00~10.00mg/L 0.1mg/L: 0.0~100.0mg/L 1mg/L: 0~1000mg/L Temperature: 0.1°C
Repeatability	±3% (Reading) or ±0.2mg/L, whichever is greater (Standard solution) Temperature: ±0.3°C
Potassium ion compensation	Compensation range: Potassium ion concentration is not more than 10 times the ammonium ion concentration and under 1000mg/L Compensation error: ±20% (measured value)
Additional function	Adjustment with manual analysis (1 point), calibration curve input function (primary expression)
Self-diagnostic function	Correction error, sensor diagnostic error, transmitter malfunction
● Optical dissolved oxygen meter (optional)	
Combination sensor unit model	DO-2000
Sensor model	5700A: Sensor cap
Measurement range	Dissolved oxygen concentration: 0~20mg/L Display resolution 0.01mg/L Saturation degree: 0~200% Display resolution 0.1% Temperature: 0~50°C Display resolution 0.1°C
Self-diagnostic	Correction error, sensor diagnostic error, transmitter malfunction
● Transmitter common specifications	
Transmission output	3 points DC4~20mA input-output insulation type Maximum load resistance 900Ω Select 3 items from below Output range 1: Ammonia nitrogen concentration: Configurable within measurement range. Output range 2: Dissolved oxygen concentration: Configurable within measurement range. Output range 3: Temperature reading of the ammonia nitrogen meter: Configurable within measurement range of -10~110°C. Output range 4: Temperature reading of the dissolved oxygen meter: Configurable within measurement range of -10~110°C.
Operation temperature range	-20~55°C (Do not freeze)
Power	AC100~240V 50/60Hz Consumption power 28VA (max)
Structure	Outdoor installation type: Protection level IP65 Installation method: 50A pole or attached to wall Case: aluminum alloy Attachment bracket: Hood: SUS304
Weight	Unit: Approx. 3.5kg Hood, attachment bracket: Approx. 1kg
Compliance standard	CE Marking, FCC Rules



■ Detector specifications (Ammonia nitrogen meter)	
Sensor unit model	AM-2000
Sample condition	0~40°C, pH4.0~8.5 [Na ⁺]: 0~100 times of [NH ₄ -N]
Measurement depth	10m
Wetted material	SUS316, FKM, PVC
Weight	Approx. 2.7kg (including 10m cable)

■ Detector specifications (Optical dissolved oxygen meter)	
Sensor unit model	DO-2000
Measurement sample temperature	0~50°C
Measurement depth	10m
Wetted material	SUS316, NBR, PVC
Weight	Approx. 3.0kg (including 10m cable)

*Sensor7691 and 7692 : Store in low temperature (1~30°C)

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