

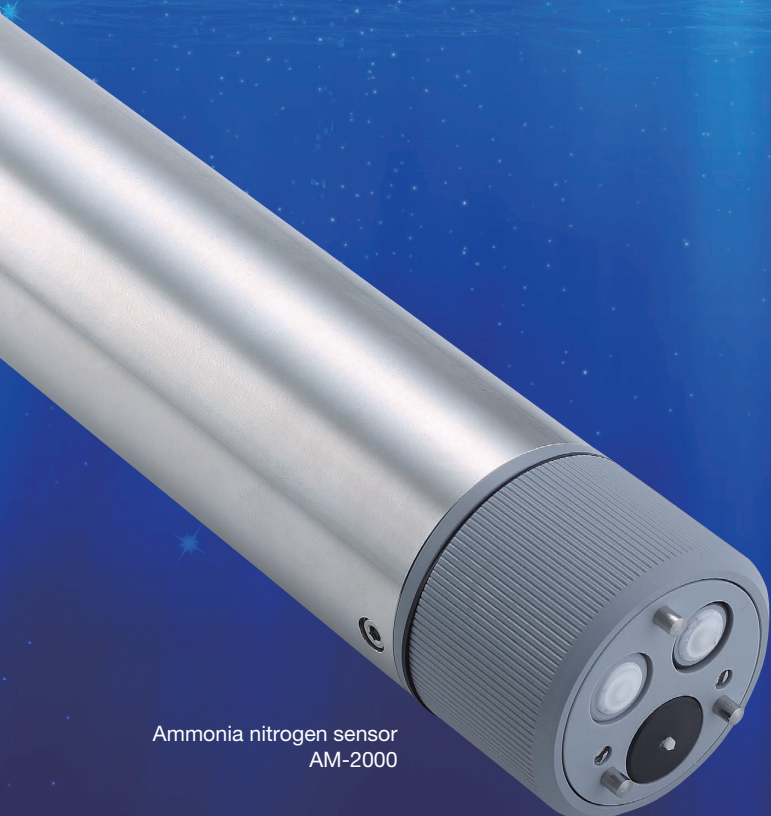
Site-type Water quality meter **H-1 Series**

Ammonia Nitrogen Meter

HC-200NH

Continuous measurement of
ammonia nitrogen concentration
by ion electrode method

For aeration optimisation in aeration tank

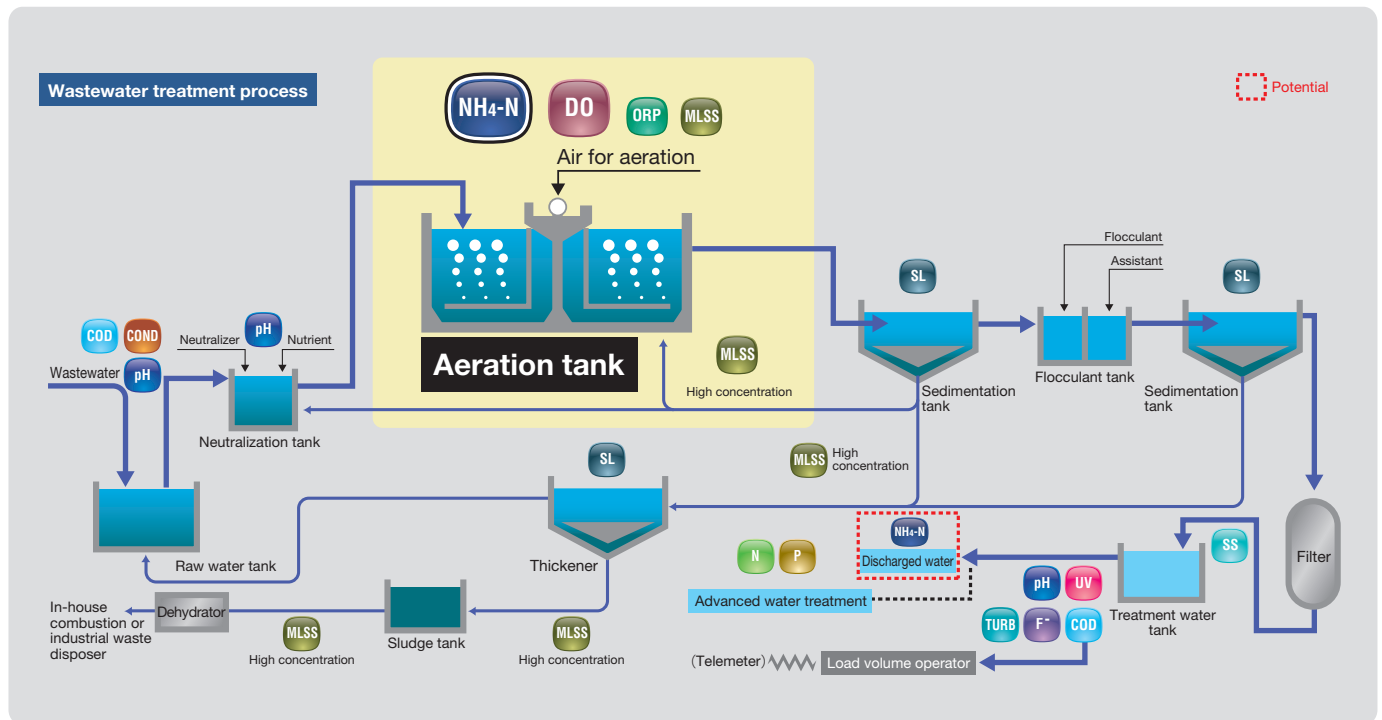


Ammonia nitrogen sensor
AM-2000



Transmitter
HC-200NH

HC-200NH is an ammonia nitrogen($\text{NH}_4\text{-N}$) 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

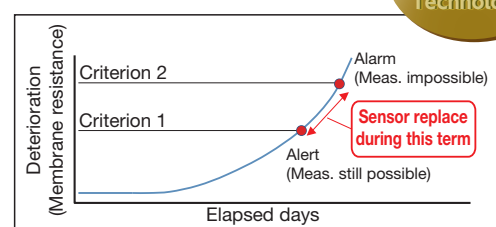
- The ion sensor enables long term stable measurement
- New ion chip internal solution enables stable measurement (Japan patent No. 5144829)
- New structure of reference chip achieves stability measurement *1

*1: patent applied

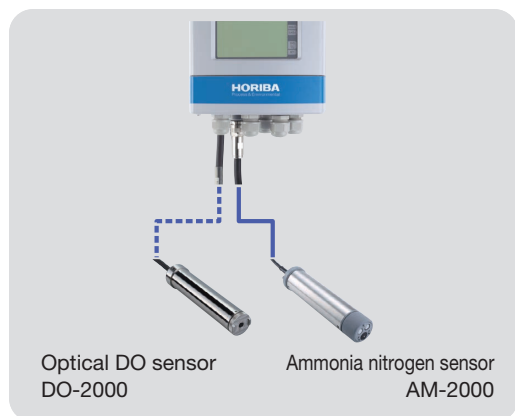
*2: patent applied with Bureau of Sewerage Tokyo Metropolitan Government.

Intelligence Self diagnostic function

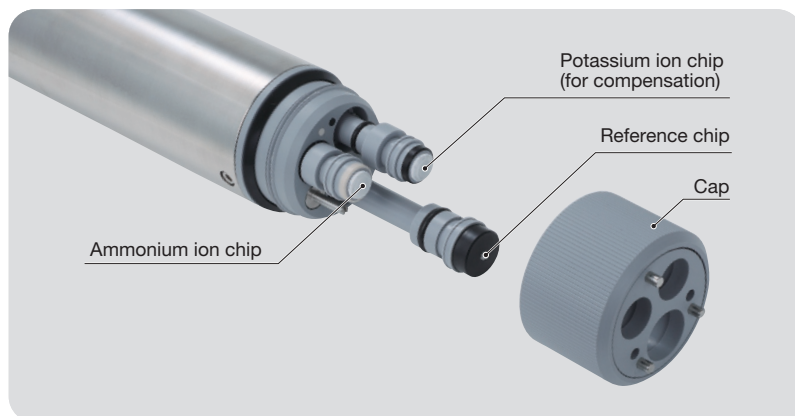
Deterioration diagnostic function during continuous measurement. This function reduces the risk of sudden loss of measurement and provides more reliable measurement.



Intelligence Dual channel transmitter



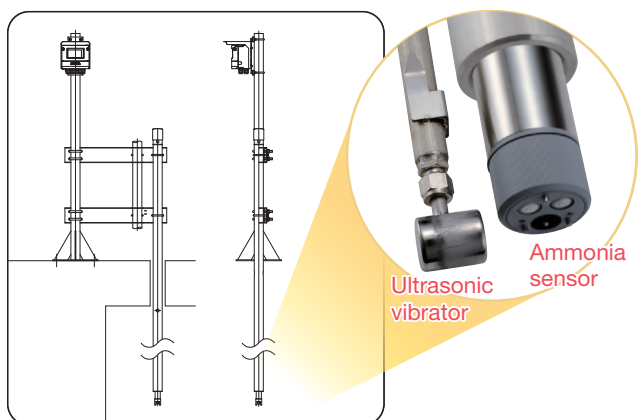
Easy Maintenance Replaceable chip without the need for tools



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

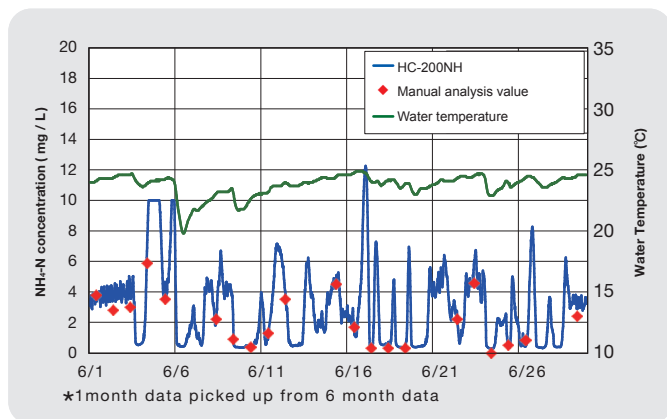
Burst oscillation method

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

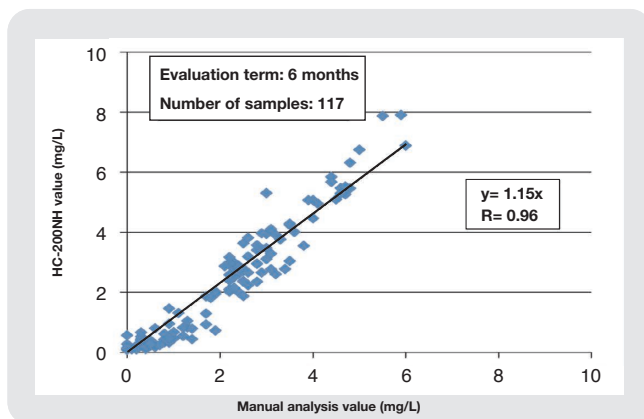


Tough Long term stable measurement

Field test result



Correlation from field test result



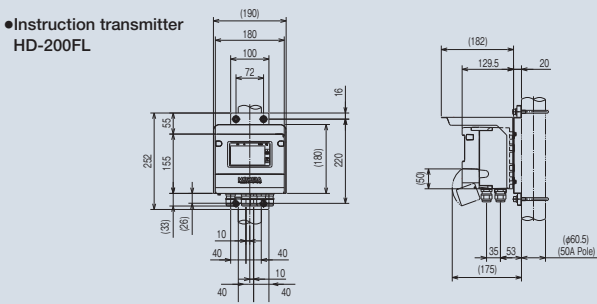
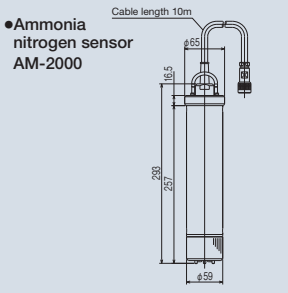
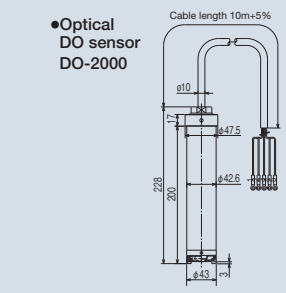
Data from joint research with Bureau of Sewerage Tokyo Metropolitan Government

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

■ Dimensions drawing (unit: mm)	
● Instruction transmitter HD-200FL 	
● Ammonia nitrogen sensor AM-2000 	● Optical DO sensor DO-2000 

■ Detector specifications (Ammonia nitrogen meter)		■ Detector specifications (Optical dissolved oxygen meter)	
Sensor unit model	AM-2000	Sensor unit model	DO-2000
Sample condition	0~40°C, pH4.0~8.5 [Na ⁺]: 0~100 times of [NH ₄ -N]	Measurement sample temperature	0~50°C
Measurement depth	10m	Measurement depth	10m
Wetted material	SUS316, FKM, PVC	Wetted material	SUS316, NBR, PVC
Weight	Approx. 2.7kg (including 10m cable)	Weight	Approx. 3.0kg (including 10m cable)

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



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HORIBA Advanced Techno, Co., Ltd. **Japan**
Head Office
 2 Miyahogishashi-cho, Kisshoin, Minami-ku, Kyoto, 601-8551, Japan
 Phone: 81 (75) 321-7184 Fax: 81 (75) 321-7291
www.horiba.com/water-liquid/

HORIBA (China) Trading Co., Ltd. **China**
 Unit D, 1F, Building A, Synnex International Park, 1068 West Tianshan Road, 200335, Shanghai, China
 Phone: 86 (21) 6289-6060 Fax: 86 (21) 6289-5553
Beijing Branch
 12F, Metropolis Tower, No.2, Haidian Dong 3 Street, Beijing, 100080, China
 Phone: 86 (10) 8567-9966 Fax: 86 (10) 8567-9066
Guangzhou Branch
 Room 1611/1612, Goldlion Digital Network Center, 138 Tiyu Road East, Guangzhou, 510620, China
 Phone: 86 (20) 3878 1883 Fax: 86 (20) 3878 1810

HORIBA (Thailand) Limited **Thailand**
 46/8 Rungrojthanakul Bld., 1st, 2nd Floor, Ratchadapisek Road., Huai Khwang Bangkok 10310
 Phone: +66 (0) 2 861 59 95 ext.123 Fax: +66 (0) 2 861 52 00

HORIBA Instruments (Singapore) Pte Ltd. **Singapore**
 3 Changi Business Park Vista #01-01, Singapore 486051
 Phone: 65 (6) 745-8300 Fax: 65 (6) 745-8155
West Office
 83 Science Park Drive, #02-02A, The Curie, Singapore 118258
 Phone: (65)-6-908-9660

HORIBA Instruments (Singapore) Pte Ltd. **Philippines**
Manila Office
 27/F Tower 2, The Enterprise Center, 6766 Ayala Avenue corner Paseo de Roxas, Brgy. San Lorenzo, Makati City, Philippines, 1226
 Phone: 63 (2) 8885 8468

HORIBA Vietnam Company Limited. **Vietnam**
 Lot 3 and 4, 16 Floor, Detech Tower II, No. 107 Nguyen Phong Sac Street, Dich Vong Hau Ward, Cau Giay District, Hanoi, Vietnam
 Phone: 84 (24) 3795 8552 Fax: 84 (24) 3795 8553
Ho Chi Minh Branch Office
 Level 7, Saigon Finace Center, 9 Dinh Tien Hoang, DaKao Ward, District 1. Ho Chi Minh City, Viet Nam
 Phone: +84-28-3829-9636 Fax: +84-28-3827-3068

PT HORIBA Indonesia **Indonesia**
 Jl. Jalur Sutra Blok 20A, No.16-17, Kel. Kunciran, Kec. Pinang Tangerang-15144, Indonesia
 Phone: 62 (21) 3044-8525 Fax: 62 (21) 3044-8521

HORIBA KOREA Ltd. **Korea**
 25, 94-Gil, Iljik-Ro, Manan-Gu, Anyang-Si, Gyeonggi-Do, 13901, Korea
 Phone: 82 (31) 296-7911 Fax: 82 (31) 296-7913

HORIBA Taiwan, Inc. **Taiwan**
 8F-8, No.38, Taiyuan St., Zhubei City, Hsinchu County, 30265, Taiwan (R.O.C)
 Phone: 886 (3) 560 0606 Fax: 886 (3) 560 0550
Tainan Office
 1F., No.90 Ziyou Rd., Shanhua Dist., Tainan City, 74158, Taiwan (R.O.C)
 Phone: (886)6-581-1108 Fax: (886)6-581-1160

HORIBA India Private Limited **India**
 246, Okhla Industrial Estate, Phase 3 New Delhi-110020, India
 Phone: 91 (11) 4646-5000 Fax: 91 (11) 4646-5020
 Email: customer-care-pe.hin@horiba.com
Technical Center
 D-255, Chakan MIDC Phase-II, Bhamboli Village, Pune-410501, India
 Phone: 91 (21) 3567-6000
Bangalore Office
 3rd, No.504, 22nd Cross HSR Club Road Sector-3, Bengaluru, Karnataka, 560102, INDIA
 Phone: 91 (80) 4127-3637

HORIBA Instruments Incorporated **USA**
Houston Office
 5390 Bay Oaks Drive, Pasadena, TX 77505
 Phone: 1 (281) 482-4334 Fax: 1 (281) 674-6058

HORIBA Instruments Brasil, Ltda. **Brazil**
 Rua Presbitero Plinio Alves de Souza, 645, Loteamento Multivias, Jardim Ermidia II - Jundiá Sao Paulo - CEP 13.212-181 Brazil
 Phone: 55 (11) 2923-5400 Fax: 55 (11) 2923-5490

HORIBA Europe Research Center **France**
 14, Boulevard Thomas Gobert - Passage Jobin Yvon CS 45002-91120 Palaiseau-France
 Phone: 33 (1) 69-74-72-00 Fax: 33 (1) 69-31-32-20

HORIBA UK Limited **UK**
 Kyoto Close Moulton Park, Northampton NN3 6FL, UK
 Phone: 44 (0) 1604 542 500 Fax: 44 (0) 1604 542 699

HORIBA Europe GmbH **Germany**
 Hans-Mess-Str.6 D-61440 Oberursel Germany
 Phone: 49 (6172) 1396-0 Fax: 49 (6172) 1373-85

HORIBA Tocadero GmbH **Germany**
 Johann-Hittorf-Str. 8, 12489 Berlin, Germany
 Phone: 49 (0)30 6392 3150 Fax: 49 (0)30 6392 3151

HORIBA (Austria) GmbH **Austria**
 Kaplanstrasse 5, A-3430 Tulln, Austria
 Phone: 43 (2272) 65225 Fax: 43 (2272) 65225 45



Worldwide locations of HORIBA