

Increase your CEMS Capabilities with a HORIBA Multi-gas Analyzer

Experience HORIBA, the Global Single Source Solutions Provider with over 50 years of technological advancements and unparalleled reliability, dependability and operability.

The GI-700 stack gas analyzer is designed to continuously measure the concentrations of nitrogen oxides (NOx), sulfur dioxide (SO₂), carbon monoxide (CO), carbon dioxide (CO₂), oxygen (O₂) and ammonia (NH₃) in stack flue gas streams.

Stack Gas Analyzer GI-700 Series



Features

Ultimate Dependability

Proven cross flow modulation technique Continuous base line validation

Ultimate Low cost ownership

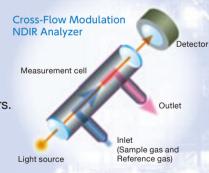
Up to 6 gases can be measured using a single analyzer with multiple detectors. Works with a simple sampling unit having less tubing, fewer power cables. Simplified wiring translates into less time required for installation. Minimum function for the operation. Any additional functions can be added from controlling PLC.

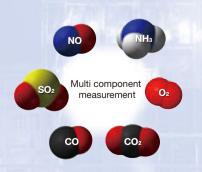
3 Ultimate Sensitivity

5 ppm High-Precision measurement (NOx, SO₂, and CO) is available.

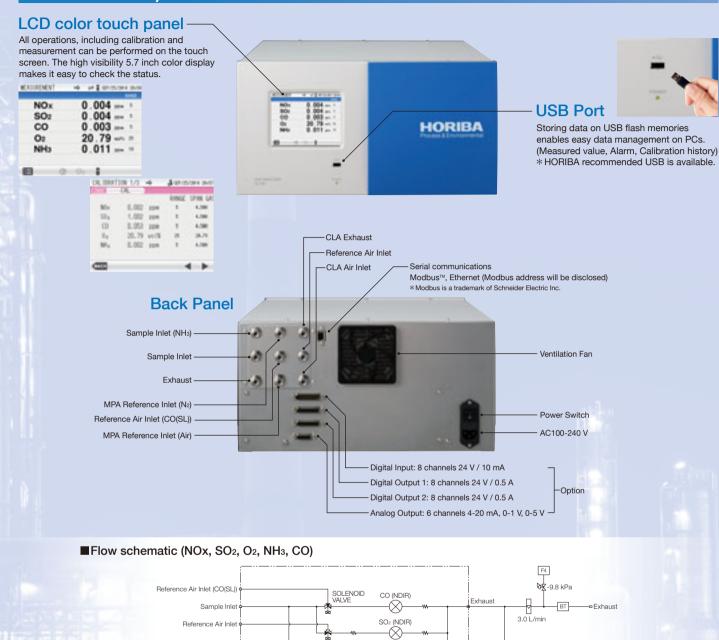
[Others]

- An external converter provides for separate measurements of NO and NO2.
- All component modules can be easily installed with in a single 19 inch case. The compact design saves space, facilitates maintenance and requires less wiring and tubing during installation.
- Power consumption is reduced by approximately 50% as compared to systems using individual analyzers (NH3 analyzer).





User Friendly



Various Applications





PRESSURE REGULATOR

CAPILL ARY

MPA Reference Inlet (N2) or MPA Reference Inlet (Air)

Sample Inlet (NH₃)



CLA Exhaust DO MC

Applications include: Stack emmision monitor, SCR control, Desulfulization control, Green house gas monitor, Boiler emission, Gas separation, Coal fired gas, Natural fired gas etc...

■Specifications

(Linearity)

Zero drift Span drift

Response time

Interference

Model		GI-700														
Component		NOx		SO ₂		CO					CO ₂		O ₂		NH3*2	
Measurement methods		CLA (High sensitivity)	NDIR (Standard)	NDUV (High sensitivity)	NDIR (Standard)	NDIR (High sensitivity 1)		NDIR (High sensitivity 2)	NDIR (Standard)	NDIR (High concentration)	NDIR (Standard)	NDIR (High concentration)	MPA (N ₂ carrier)	MPA (Air carrier)	CLA (differential method)	
Range	Standard	10-5000 ppm	200-5000 ppm	10-1000 ppm	200-5000 ppm	_	_	50-500 ppm	200-5000 ppm	_	5-25 vol%	_	5-25 vol%	10-25 vol%	10-100 ppm	
	Optional	5 ppm	_	5 ppm	_	5 ppm	10-100 ppm	_	100 ppm	1-5 vol%	_	10-50 vol%	-	_	_	
Range Ratio	Standard	1:10	1:10	1:10	1:10	_	_	1:10	1:10	_	1:5	_	1:5	1:2.5	1:10	
	Optional	1:20	1:20	1:20	1:20	1:1	1:10	_	1:20*1	1:5	_	1:5	_	_	_	
Indicated error			+ 1.0% of full-scale value for each component and range (Standard range ratio)													

± 2.0% of full-scale value for each component and range (Optinonal range ratio)

± 1.0%/week of full scale (standard range) (if the ambient temperature change is ≤ 5°C) ± 2.0%/week of full scale (optional range and Air carrier specification O₂ analyzer) (if the ambient temperature change is ≤ 5°C)

± 2.0%/week of full scale (if the ambient temperature change is ≤ 5°C)

T₉₀=45 s from the analyzer inlet

±2.0% of full scale

Environment Condition Temperature Humidity 0° to 40°C (No direct sun light or no radiation heat) ≤ 90%

Temperature: Ambient temperature, NO: Up to 5000 ppm, NO2: None, SO2: Up to 5000 ppm, SO3: None, CO: Up to 5000 ppm, Measuring Gas

Condition CO2: 3 vol% to 15 vol%, O2: 0.2 vol% to 15 vol%, HCl: None, H2O: Saturated at 5°C, Dust: None Polytetrafluoroethylene tube (6 mm O.D./4 mm I.D.) Sample inlet tube

Sample gas pressure Atmospheric pressure ± 4 in. W.C.

Pressure control Not including (Vacuum regulator (-9.8 kPa)) Calibration Zero gas Nitrogen

Span gas Gas to be measured

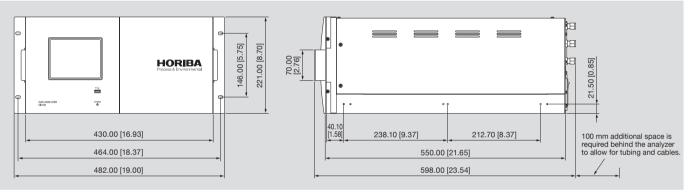
Nitrogen (for N2 carrier specification), Air (for air carrier specification) Carrier gas for (oxygen analyzer) Air for ozone generation Dry air (saturated at ≤ -30°C)

Power supply 100 - 240 VAC (Depends on components) 50/60 Hz for common use Power frequency Power consumption 240 VA

PTFE, Nylon, PP, FKM, SS304, SS316 Materials in contract with sample gas

Outline Drawings (mm [inch])

*1: A range ratio of 1: 40 is also possible for special applications. *2: A range ratio of CLA NH3 and CLA NOx should be 1: 5 or less.





The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System IS09001, Environmental Management System IS014001, and Occupational Health and Safety Management System OHSAS18001.

We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies



Please read the operation manual before using this product to assure safe and proper handling of the product.

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Korea

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http://www.horiba.com e-mail: info@horiba.co.jp

HORIBA, Ltd. Japan Head Office 2 Miyanohigashi, Kisshoin, Minami-ku, Kyoto, Japan Phone: 81 (75) 313-8121 Fax: 81 (75) 321-5725

HORIBA (China) Trading Co., Ltd. China Unit D, 1F, Building A, Synnex International Park, 1068 West Tianshan Road, Shanghai, 200335, 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

HORIBA KOREA Ltd. **Seoul Branch** 10, Dogok-Ro, 6-Gil, Gangnam-Gu, Seoul-Si, 06259, Korea Phone: 82 (2) 753-7911 Fax: 82 (2) 756-4972

HORIBA Instruments (Singapore) Pte Ltd. Sin 3 Changi Business Park Vista #01-01 Akzonobel House, Singapore 486051 Singapore

Phone: 65 (6) 745-8300 Fax: 65 (6) 745-8155

Vietnam

HORIBA Vietnam Co., Ltd. Vi Unit 6, 10 Floor, CMC Tower, Duy Tan Street, Dich Vong Hau Ward, Cau Giay District, Hanoi, Vietnam Phone: 84 (4) 3795-8552 Fax: 84 (4) 3795-8553

HORIBA (Thailand) Limited Thailand

East Office 850 / 7 Soi Lat Krabang 30 / 5, Lat Krabang Road, Lat Krabang, Bangkok 10520, Thailand Phone: 66 (0) 2734 4434 Fax: 66 (0) 2734 4438

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

HORIBA India Private Limited 246, Okhla Industrial Estate, Phase 3 New Delhi-110020, India Phone: 91 (11) 4646-5000 Fax: 91 (11) 4646-5020

Technical Center D-255, Chakan MIDC Phase-II, Bhamboli Village, Pune-410501, India Phone: 91 (21) 3567-6000

Bangalore Office
No.55, 12th Main, Behind BDA Complex, 6th sector, HSR Layout,
Bangalore South, Bangalore-560102, India
Phone: 91 (80) 4127-3637

HORIBA Instruments Incorporated USA

9755 Research Drive, Irvine, CA 92618, U.S.A. Phone: 1 (949) 250-4811 Fax: 1 (949) 250-0924

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

HORIBA Instruments Brazil, Ltda

Rua:Presbitero Plinio Alves de Souza, 645, Loteamento Polo Multivias Barirro Medeiros-Jundiai Sao Paulo CEP 13.212-181 Brazil

Phone: 55 (11) 2923-5400 Fax: 55 (11) 2923-5490 HORIBA FRANCE SAS

France Les Ulis Office
12. Av des Tropiques Hightec Sud, F-91955 Les Ulis, France Phone: 33 (1) 69-29-96-23 Fax: 33 (1) 69-29-95-77

F@ (E

Brazil

UK

Czech

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

Leichlingen Office
Julius-kronenberg Str.9 D-42799 Leichlingen Germany
Phone: 49 (2175) 8978-0 Fax: 49 (2175) 8978-50 **HORIBA Czech**

Prague Office
Prumyslova 1306 / 7, CZ-10200, Praha 10, Czech Republic
Phone: 420 (2) 460-392-65 HORIBA (Austria) GmbH Austria

Kaplanstrasse 5 A-3430 Tulln, Austria Phone: 43 (2272) 65225 Fax: 43 (2272) 65230

Bulletin:HRE-2883B

Printed in Japan 1706SK23

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