MEXA-ONE IRLAM

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Laser Spectroscopic Motor Exhaust Gas Analyzer

HORIBA

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for 4 nitrogen compounds NO NO2 N2O NH3

Low interference, low noise, high sensitivity and wide range

- High-precision, wide-range measurement of nitrogen oxides
- For the development of engine and aftertreatment systems and the reduction of NH₃ emissions.





EMISSIONS

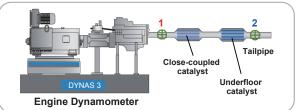
ELECTRIFICATION

MEXA-ONE IRLAM Laser Spectroscopic Motor Exhaust Gas Analyzer

NO NO₂ N₂O NH₃ for 4 nitrogen compounds

Applications

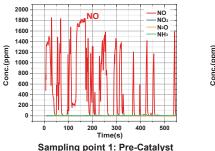
Research and development of catalysts for low-temperature/high-load operation to improve performance

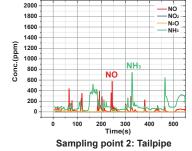


Other Applications

■ R&D on internal combustion of next-generation fuels (CNG, e-fuel, biofuels, NH₃ co-combustion, etc.)

■ R&D of the next emission regulations EURO7/VII, China 7, etc. (N₂O, NH₃)





MEXA-ONE XL-NX Outline

Performance

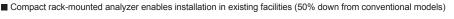
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Measurement target	Exhaust gas from internal combustion engine and gas turbine (Direct/Conti-dilute)	Zero noise(2σ)	NO (Low range) 0.4 ppm or less (High range) 12 ppm or less
Emissions Standard	US EPA GHG ^{*1} , GTR No.15 (NO ² , N ² O, NH ³)		NO ₂ (Low range) 0.2 ppm or less
Measurement range	NO (Low) 0-200 ppm (High) 0-6000 ppm		(High range) 6 ppm or less
	NO2 (Low) 0-100 ppm (High) 0-3000 ppm		N ₂ O (Low range) 0.4 ppm or less
	N ₂ O (Low) 0-200 ppm (High) 0-6000 ppm		(High range) 12 ppm or less
	NH₃ (Low) 0-100 ppm (High) 0-3000 ppm		NH₃ (Low range) 0.2 ppm or less
Measurement Principle	Quantum Cascade Laser Infrared Spectroscopy; QCL-IR		(High range) 6 ppm or less
Sample gas line temperature	113 °C± 6 °C	Rise time (calibration gas line t10-90)	$\begin{array}{l} 2.5 \mbox{ s or less } N_2 \ \rightarrow \ NO \ 200 \mbox{ ppm at the time of switching} \\ 2.5 \mbox{ s or less } N_2 \ \rightarrow \ NO_2 \ 100 \mbox{ ppm at the time of switching} \end{array}$
Sample gas flow rate	8.0 L/min ± 1.0 L/min		$2.5~s$ or less $N_2 \rightarrow ~N_2O~200~ppm$ at the time of switching
Operating environment	Ambient temperature: 5~40 °C Ambient humidity: 80% or less as relative humidity		3.5 s or less $N_2\rightarrow$ NH_3 100 ppm at the time of switching
Power requirements	When stable: Max. 750 VA (analyzer unit only)		
Dimensions	440(W)×720(D)×880(H) mm (Except for outshoots)		
Mass	Approx. 110 kg		



N₂O Analyzer XLA-11

Compatible with exhaust gas certification, including U.S. GHG (Greenhouse Gas) regulations

High-precision measurement of extremely low concentrations of N₂O in diluted exhaust gases such as CVS back gas





*1 Measurement method in accordance with CFR 1065 (N₂O). Please contact us for details

IRLAM™(Infrared Laser Absorption Modulation) is a next-generation infrared gas analysis technology originally developed by HORIBA. www.horiba.com/en_en/irlam/ *IRLAM is a registered trademark or trademark of HORIBA, Ltd





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

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The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System ISO14001, and Occupational Health and Safety Management System ISO45001, We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencie

> Automotive