

Easy and high accuracy measurement of CO, CO₂, HC, O₂ (optional) and calculation of AFR and Lambda

MEXA-1300R is a motor exhaust gas analyzing system for two and four stroke engine assembly lines and has an integrated sample handling system for removal of oil and moisture.

The measurement of CO, CO₂, HC and O₂ (optional) in exhaust gases is made simply by inserting the sample probe into the tail pipe. AFR and Lambda are also calculated from the exhaust gas concentrations.



Calendar Timer Function

The start time and end time of the instrument can be set for each day of the week. A warm-up sequence and a purge are carried out automatically.



Self-Diagnosis Function

Instrument parameters such as sample flow rate and temperature of the electronic cooler are monitored to ensure highly accurate and reliable measurements.



Measurement Value Judgment Function

Using AUTO mode, measurement, judgment and then purge are made continuously.



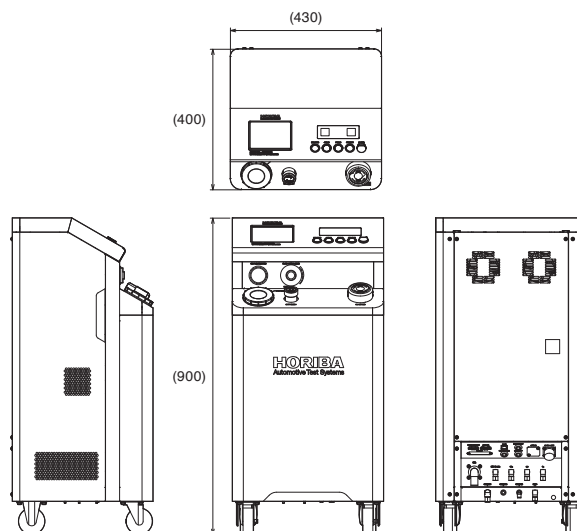
Small Footprint

11% smaller than previous model. Good design allows it to fit into any workspace.

Specifications

Model	MEXA-1300R
Compatible standards	CE, FCC (Class A)
Reference standard	OIML R99 Class 0
Analyzing target	Exhaust gases of two-cycle and four-cycle engines
Measurement item and range	CO : 0.00% vol - 10.00% vol HC : Oppm vol - 10,000ppm vol (N-hexane) CO ₂ : 0.00% vol - 20.00% vol AFR : 10.0 - 30.0 Lambda : 0.500 - 2.500 O ₂ : 0.00% vol - 25.00% vol (Optional)
Principle / Calculation method	CO, CO ₂ , HC : NDIR (Non-dispersive infrared gas analysis) O ₂ : galvanic cell type sensor AFR, Lambda : carbon balance method or Bretschneider method (When O ₂ sensor is embedded)
Operating environment	Temperature : 5 °C - 35 °C Humidity : 85% RH or less (No condensation) Atmospheric pressure : 86 kPa - 106 kPa
Configuration	Main body (Analysis unit, control unit, display integrated in main body)
Communication interface	HOST (RS-232C) : D-sub 9 pin (Male) HOST (LAN) : RJ-45 Analog output : D-sub 9 pin (Female) 0 - 1 V 6 ch (Optional)
Power supply	Any of the following voltage and frequency (To be specified when ordering) 100±10 V AC, 50 / 60 Hz±1 Hz, single phase 110±11 V AC, 50 / 60 Hz±1 Hz, single phase 115±11.5 V AC, 50 / 60 Hz±1 Hz, single phase 120±12 V AC, 60 Hz±1 Hz, single phase 200±20 V AC, 50 / 60 Hz±1 Hz, single phase 220±22 V AC, 50 Hz±1 Hz, single phase 230 (207 - 250) V AC, 50 Hz±1 Hz, single phase 240 (216 - 250) V AC, 50 Hz±1 Hz, single phase
Power consumption	Approx. 250 VA (100 V AC - 240 V AC)
Dimensions	Approx. 430 (W) x 400 (D) x 900 (H) mm
Mass	Approx. 60 kg

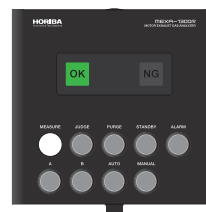
Outside dimensions (mm)



Options



Controller



Display panel

Operation, status confirmation and measurement result display are available on the panel.



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 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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<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
Tokyo Sales Office
2-6, KandaAwaji-cho, Chiyoda-ku, Tokyo, 101-0063, Japan
Phone: 81 (3) 6206-4721 Fax: 81 (3) 6206-4730

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 Instruments (Singapore) Pte Ltd. **Singapore**

3 Changi Business Park Vista #01-01 Akzonobel House, Singapore 486051
Phone: 65 (6) 745-8300 Fax: 65 (6) 745-8155

HORIBA Vietnam Co., Ltd. **Vietnam**

Unit 6, 10 Floor, CMC Tower, Duy Tan Street, Dich Vong Hau Ward, Cau Giay District, Hanoi, Vietnam
Phone: 84 (24) 3795-8552 Fax: 84 (24) 3795-8553

PT HORIBA Indonesia **Indonesia**

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

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

HORIBA KOREA Ltd. **Korea**

202-501, Bucheon Techno Park, 388, Songnae-Daero, Wonmi-Gu, Bucheon-Si, Gyeonggi-Do, 14502, Korea
Phone: 82 (32) 621-0100 Fax: 82 (32) 621-0105

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

HORIBA Instruments Incorporated **USA**

9755 Research Drive, Irvine, CA 92618, U.S.A.
Phone: 1 (949) 250-4811 Fax: 1 (949) 250-0924
Ann Arbor Facility
5900 Hines Drive Ann Arbor, MI 48108 U.S.A.
Phone: 1 (734) 213-6555 Fax: 1 (734) 213-6525

TCA/HORIBA Sistema de Testes Automotiva Ltda. **Brazil**

Rua Goiás 191 Vila Oriental, Diadema, São Paulo, Brazil CEP 09941-690
Phone: 55 (11) 4224 0200 Fax: 55 (11) 4227 3133

HORIBA UK Limited **UK**

Northampton Office
Kyoto Close Moulton Park, Northampton NN3 6FL, UK
Phone: 44 (1604) 542-500 Fax: 44 (1604) 542-699

HORIBA Test Automation Limited **UK**

Tempe House, Whittington Hall, Whittington Road, Worcester, WR5 2RY, UK
Phone: 44 (1905) 359-359 Fax: 44 (1905) 359-332

HORIBA Europe GmbH **Turkey**

Istanbul Office
Küçükbakkalköy Mah. Kayışdağı Cad., Flora Residence No:3 / 2504 34750 Ataşehir / Istanbul
Phone: (90) 216 572 1166 Fax: (90) 216 572 1167

HORIBA FRANCE SAS **France**

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

HORIBA OOO **Russia**

Altufievskoe shosse, 13, building 5, 127106, Moscow, Russia
Phone: 7 (495) 221-87-71 Fax: 7 (495) 221-87-68

HORIBA Europe GmbH **Germany**

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

HORIBA Europe Automation Division GmbH **Germany**

Zabergaeustr. 3, D-73765 Neuhausen, Germany
Phone: 49 (7158) 933-300 Fax: 49 (7158) 933-399

HORIBA Europe GmbH **Sweden**

Sweden Branch (Sodertalje)
Sydharnsvagen 55-57, SE-15138, Sodertalje, Sweden
Phone: 46 (8) 550-80701 Fax: 46 (8) 550-80567

HORIBA ITALIA SRL **Italy**

Torino Office
Via Feroggio, 30, 10151 Torino, Italy
Phone: 39 (11) 904-0601 Fax: 39 (11) 900-0448

HORIBA Czech **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