

EMIA-Pro

Carbon/Sulfur Analyzer

Carbon/Sulfur Analysis by
Combustion NDIR Measurement



*The most user-friendly Carbon/Sulfur Analyzer available!
Dust-free, stress-free and no experience required.*



EMIA-Pro

Carbon/Sulfur Analyzer

The new EMIA-Pro Carbon/Sulfur analyzer series has been developed based on HORIBA's abundant NDIR technologies and the wealth of experience acquired from our successful EMIA series.

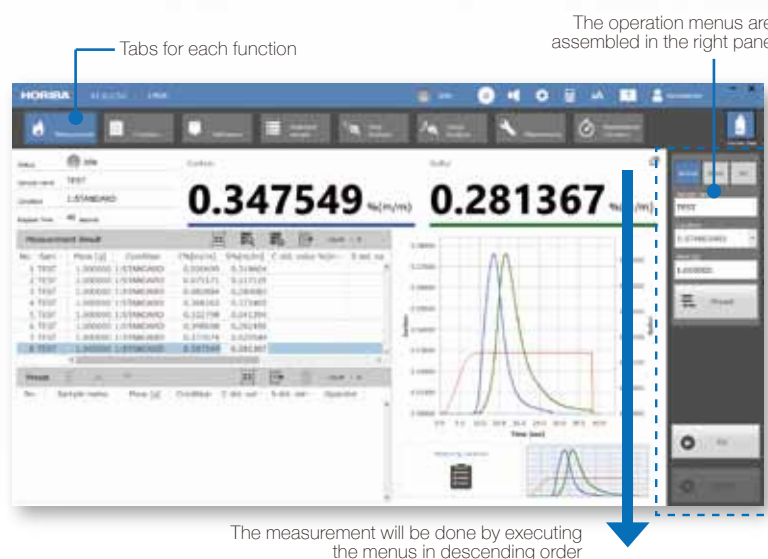
This "made in Japan" product offers four unique features to allow anyone to become a professional analyst.

1

Renewed User-Friendly Interface

The newly-designed software for the EMIA-Pro series makes the best of an intuitive menu design that displays only those items required for each operation.

For example, in the measurement window, only the related menus for the measurement are shown.



Automatic Diagnosis System

When any fault occurs, the EMIA-Pro pinpoints the trouble area automatically, and notifies the operator, along with the recovery procedures. Thus, EMIA-Pro saves the user unnecessary downtime and running cost.

Maintenance Navigation

It shows the maintenance procedure clearly with movies and images.



Troubleshooting Navigation

It immediately shows the faulty location and the necessary recovery.



One-Click Operation Mode

Just by choosing the sample by name, the software sets up the measurement conditions automatically.

The operator does not need to set any measurement conditions.

Operation Flow Navigation

Everyone can easily use the analyzer with the supports from this function.



Analysis Condition Navigation

This function automatically shows the best measurement condition for your sample.



2

Generally it takes about 70 seconds for a user to prepare a sample. During the sample preparation, the EMIA-Pro can complete one measurement cycle (measurement, display result and cleaning process) in about 70 seconds. This quick and efficient procedure reduces the cycle time and enables the user to enjoy a stress-free operation environment.



3

*Patent pending

The newly-developed unique cleaning mechanism perfectly clears the dust on the filter. Dust can be a cause of decreased the accuracy of measurement values, but with our new cleaning system, the results are not affected by dust, even after 200 measurements.



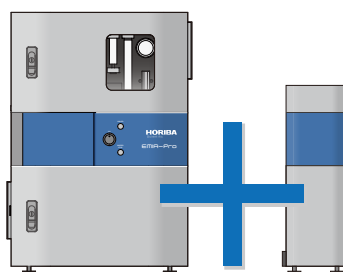
	Standard Specification	After 100 measurements	After 200 measurements
Leakage Pressure	≤ 1.0 kPa	0.53 kPa	0.29 kPa
RSD Carbon	≤ 1%	0.46%	0.39%
RSD Sulfur	≤ 1.5%	0.72%	1.21%

4

The customer can extend the system's functionality at any time, even after installation, depending upon their needs. For example, they can add:

- Automatic loading system
- Halogen trap unit with switching function
- Accelerator supplying unit
- Purifier

**Scalable
even after
installation**



Steel

Automotive parts, tools, building



Minerals

Cokes, limestone, coal



Chemicals

Catalyst, rubber, filter



Non-ferrous alloys

Copper, nickel, alumina

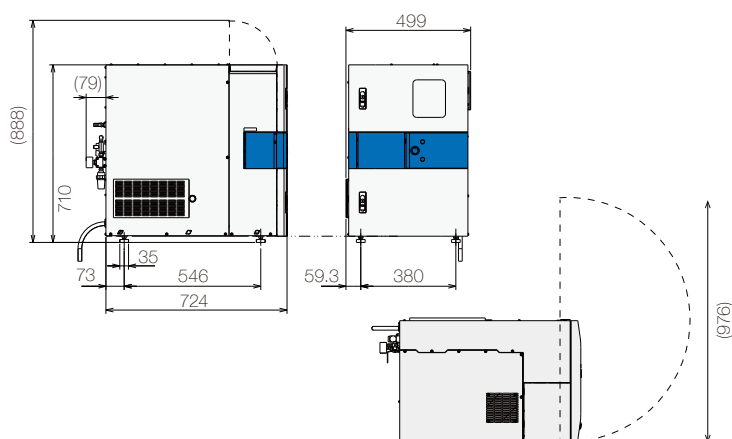


Electrical materials

Solder, MLCC, lithium-ion battery

	Detail
Sample weight	1.0 g
Carbon	Measurement range (m/m)
	1.6 mg/kg - 6.0 %
Sulfur	Blank accuracy
	$\sigma < 0.8$ mg/kg
Sulfur	Measurement range (m/m)
	2 mg/kg - 1.0 %
Sulfur	Blank accuracy
	$\sigma < 1$ mg/kg
Cycle time (Average)	70 seconds
Dimensions [W x D x H]	499 x 724 x 710 mm * Except piping parts and flow meter on back side. * Dimension of largest parts on back side (D: 80mm)
Weight	134 kg
Power source	200/220/240 V, 5 kVA *Except PC Power Source
Carrier gas	Oxygen: Purity 99.5%, Pressure: 0.3 MPa
Operation gas	Nitrogen: Purity 99.5%, Pressure: 0.35 MPa
User Interface	Touch panel / Keyboard / Mouse
Lineup	EMIA-20P: Carbon/Sulfur Analyzer EMIA-21P: Carbon Analyzer EMIA-22P: Sulfur Analyzer

Dimensions (Unit: mm)



Ceramic Crucible

Low carbon blank and high dimension tolerance for high precision analysis.



Accelerators

High-purity materials which support stable analysis:
Tungsten (W), Tin (Sn), Copper (Cu), Iron (Fe), etc.



Others

Other accessories such as combustion tube, oscillator, reagent materials, etc., are also available.

EMGA-920

Oxygen/Nitrogen Analyzer

- Super high performance
- High-speed analysis, easy operation and maintenance
- Wide range of options for your analysis



GD-Profil2

Glow Discharge Spectrometer

- Provides fast, simultaneous analysis of all elements of interest including the gases nitrogen, oxygen, hydrogen and chlorine
- The ideal tool for thin film characterization and process studies



LabRAM HR Evolution

Confocal Raman Microscope

- Ultimate instrument for Raman spectroscopy
- High spatial and spectral resolutions
- Cover your sample from UV to NIR
- Ultra-fast confocal imaging



Ultima Expert

ICP-OES Spectrometer

- Offers the highest performance in the market and is specially designed to handle the most challenging applications



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●
2 Miyahonigashi, Kisshoin,
Minami-ku, Kyoto, Japan
Phone: 81 (75) 313-8123
Fax: 81 (75) 321-5725

●
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

●
12F, Metropolis Tower, No.2,
Haidian Dong 3 Street,
Beijing, 100080, China
Phone: 86 (10) 8567-9966
Fax: 86 (10) 8567-9066

●
Room 1611/1612, Goldlion
Digital Network Center,
138 Tiyu Road East,
Guangzhou, 510620, China
Phone: 86 (20) 3878-1883
Fax: 86 (20) 3878-1810

●
10, Dogok-Ro, 6-Gil,
Gangnam-Gu, Seoul-si,
06259, Korea
Phone: 82 (2) 753-7911
Fax: 82 (2) 756-4972

●**HORIBA India Private**
246, Okhla Industrial Estate,
Phase 3 New Delhi - 110020,
India
Phone: 91 (11) 4669-5001
Fax: 91 (11) 4669-5010

●
Kamadhenu, No.17/1 - 32,
Bannerghatta Road,
Audugodi Bangalore -
560030, India
Phone: 91 (80) 22210071

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

●
Unit 10, 4 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

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

●
393, 395, 397, 399, 401,
403, Latya Road,
Somdetchaopraya,
Klongsan, Bangkok 10600,
Thailand
Phone: 66 (2) 861-5995
Fax: 66 (2) 861-5200

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

●
3880 Park Avenue, Edison,
NJ 08820, U.S.A.
Phone: 1 (732) 494-8660
Fax: 1 (732) 549-5125

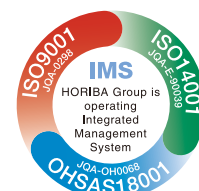
●
16-18 rue du Canal, 91165,
Longjumeau Cedex, France
Phone: 33 (1) 64-54-13-00
Fax: 33 (1) 69-09-07-21

●
Hauptstr. 1* D-82008
Unterhaching, Germany
Phone: 49 (89) 46-23-17-0
Fax: 49 (89) 46-23-17-99

●
Via Luca Gaurico
209 - 00143, Roma, Italy
Phone: 39 (6) 51-59-22-1
Fax: 39 (6) 51-96-43-34

●
2 Dalston Gardens,
Stanmore, Middx HA7 1BQ,
Great Britain, UK
Phone: +44 (208) 204-8142
Fax: +44 (208) 204-6142

●
Rua:Presbitero Plinio Alves de
Souza, 645, Loteamento Polo
Multivias Barro Medeiros -
Jundiai Sao Paulo -
CEP 13.212-181 Brazil
Phone: 55 (11) 2923-5400
Fax: 55 (11) 2923-5490



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