

Oil Content Analyzer



Fully automated one-touch operation, from oil ext

The OCMA-500 Oil Content Analyzer has been redesigned for even better operability, maintaining its user-friendly features.

After injecting the sample, all you have to do is press a button to get the monitoring operation done quickly, from oil extraction to sample measurement and draining. This machine is easy for anyone to use. The OCMA-500 cuts solvent consumption by 20% compared with our previous products, reducing environmental impact. It also reduces the running costs.



Easy monitoring at the touch of a button

After injecting the sample, all you have to do is press the START button, and the system will automatically conduct the monitoring operation from oil extraction to sample measurement and draining. With no more troublesome tasks like opening/closing the drainage valve, monitoring is speeded up. The color graphic LCD and the backlit extraction tank have improved operability.

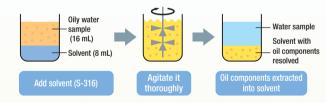




Reduced environmental impact and running costs (20% cut in solvent consumption*)

Using infrared absorptiometry, the OCMA-500 extracts the oil contained in a sample fluid into solvent S-316 to measure the oil content in the solution with an IR analyzer.

The OCMA-500 cuts solvent consumption by 20% compared with our previous products, reducing environmental impact. It also reduces the running costs.



* Comparison with previous model



Various applications

Wastewater

- · Factory wastewater (industrial waste: steel, petrochemical, and food indus-
- Sewage-treatment plant discharge water
- · Bilge and ballast discharge of marine transportation (tankers)
- · Petroleum-processing plant discharge water and checking the efficiency of oil/water separation processes

Environment

- · Surveying environmental water quality in conformity with environmental stan-
- · Monitoring water quality around gas service stations and automobile repair
- Monitoring the discharge water produced when cleaning storage tanks at petroleum terminals
- Surveying oil diffusion in the case of tanker accidents and accidents at petrochemical plants

Parts

- · Residual oil in wastewater from cleaning metal parts
- Oil components in cleaning fluids for metal parts
- Oil cleaning efficiency in semiconductor and plated metal bonding processes









raction to sample measurement and draining

Unit conversion

Multi Languages

"Japanese, English, Russian"

languages are available.

as the user needs.

Inputting measurement conditions

can change the units displayed

(mg/L, mg/kg, mg/g, and mg/PC)

Color graphic LCD

The OCMA-500 comes equipped with a 3.5-in color graphic LCD. Menus and measurement data can be clearly seen.

WARM UP = 2014/02/04 11:04:0 100mg/L

▲ Measurement screen

USB flash memory drive port

Storing data on USB flash memories enables easy data management on PCs.



▲ USB flash memory drive port

Measurement Mode

"Auto" and "Manual" valve control measurement are available.

Auto mode: you can measure Sample automatically.

Manual mode: Sample preparation. valve control and measurement are operated manually by cursor button control.

< In case of Manual Mode >

(▶): Stir, (▲): Liquid delivery,

(**◄**) : Drain

Backlit extraction tank

The extraction tank is equipped with LEDs. Illuminating the tank makes it easy to check the phase separation between sample and solvent.



▲ Backlit extraction tank

Simple operation buttons

The buttons have been made simple, and switching between the measurement and calibration screens has been made easier.







Data management Calibration

Measurement





With no need for a solvent evaporation process, the OCMA-500 offers easy operation, and can detect even oils with low boiling points.

The n-hexane extraction method* needs to evaporate solvent, and any oil with a low boiling point is also evaporated along with solvent. The OCMA-500 does not need to evaporate solvent, preventing evaporation of these kinds of oil (toluene and gasoline).

This method has been used to measure oil components in marine areas, etc. The method is stipulated in Annex 10 of the 1971 Environment Agency Notice No. 59 (N-Hexane Extractable Material (Oil and Grease) Measurement Method). It can produce errors when oil causing pollution contains gasoline, because it loses oils with a low boiling point by evaporation. Also, since it sometimes produces false positive errors due to sulfur compounds contained in soil and petroleum products, and hexane-soluble organic materials in soil, the influence of these substances has to be taken into account when assessing test results.

^{*}N-hexane extraction method:

■Specifications

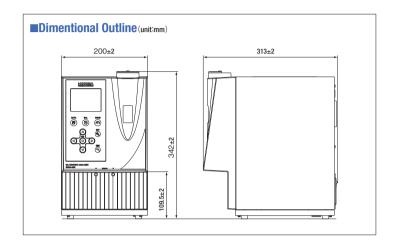
Model	OCMA-500
Product name	Oil content analyzer
Measurement method	Solvent extraction - non-dispersive infrared
	absorption analysis method
Measured objects	Substances extracted from sample water into solvent and
	having infrared absorption near a wavelength from 3.4 μm to 3.5 μm
Measurement range	0 mg/L to 200 mg/L
Resolution	For mg/L 0 to 99.9: 0.1, 100 to 200: 1
	For mg/g, mg/kg, mg/PC 0 to 9.99: 0.1, 10.0 to 99.9: 0.1, 100 to 200: 1
Repeatability	0 mg/L to 9.9 mg/L: \pm 0.2 mg/L \pm 1 dig.
	10.0 mg/L to 99.9 mg/L: ±2.0 mg/L ±1 dig.
	100 mg/L to 200 mg/L: ±4 mg/L ±1 dig. * For standard liquids
Display method	3.5 inches, 320 X 240 dots
	Backlight Color graphic LCD
Calibration method	Zero, span calibration
Amount of test sample required	Sample water : Solvent = 2:1
Extraction solvent	S-316
Amount of extraction solvent required	8 mL
Extraction method	Built-in extractor
Ambient operating temperature	0°C to 40°C (no condensation)
Power supply	AC 100 V to 240 V ±10%, 50/60 Hz
Power consumption	AC 100 V: Approx. 60 VA, AC 240 V: Approx. 90 VA
External dimensions	342 (H) X 200 (W) X 313 (D) mm
Mass	Approx. 7 kg
External output	Output to an USB memory stick
Functions	300-item data memory
	 Self error determination
	 Stabilized measurement value display
	Clock

■Standard Accessory

- •Filter element For water filter, diameter 40mm, 5 in package
- •Dropper Polyethylene, 2.5mL
- •Code set Power supply cable
- •B-heavy oil 10mL
- •Instruction Manual

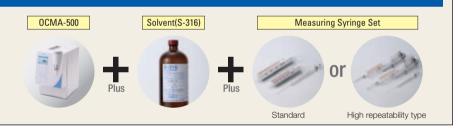
■Optional parts

- •Solvent S-316
- •Measuring syringe set, Standard type
- ·Measuring syringe set, High repeatability type
- ·Packing For water filter



For the first purchase customer

In order to measure oil content with OCMA-500, you need the following products. If you don't have these products, please purchase from optional parts list





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

- ●The contents of this catalog are subject to change without prior notice, and without any subsequent liability to this company.
- The color of the actual products may differ from the color pictured in this catalog due to printing limitations. • It is strictly forbidden to copy the content of this catalog in part or in full.
- All brand names, product names and service names in this catalog are trademarks or registered trademarks of their respective companies.

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

●HORIBA, Ltd. Head Office

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

Tokyo Sales Office Kanda-Awaji-cho Nichome Building 2-6, Awaji-cho, Kanda, Chiyoda-ku, Tokyo, Japan

Phone: 81 (3) 6206-4721 Fax: 81 (3) 6206-4730

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

 HORIBA (China) Trading Co., Ltd.
 Shanghai Office Beijing
Unit D, 1F, Building A, Synnes 12F, Me
International Park, 1068 Haidian
West Tianshan Road, Beijing,

 Beijing, Shanghai, 200335 China Phone: 86 (21) 6289-6060 Fax: 86 (21) 6289-5553

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

● HORIBA India Private Limited Delhi Office 246, Okhla Industrial Estate,

Phone: 91 (11) 4646-5000 Fax: 91 (11) 4646-5020

10, Dogok-Ro, 6-Gil, Gangnam-Gu, Seoul, 135-860, Korea Phone: 82 (2) 753-7911 Fax: 82 (2) 756-4972

●HORIBA Instruments (Singapore) Pte Ltd. — Head Office Hanoi Office Unit 10, 4 Floor, CMC tower, Lobby B Ubi Techpark Duy Tan Street, Dich Vong

Singapore 408564 Phone: 65 (6) 745-8300 Fax: 65 (6) 745-8155

Hau Ward, Cau Giay district, Hanoi, Vietnam Phone: 84 (4) 3795-8552 Fax: 84 (4) 3795-8553 ●HORIBA UK Limited

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

Kaplanstrasse 5 A-3430 Tulln,

Pune Office 502, 5th Floor, Purushottam Phase 3 New Delhi - 110020, Plaza, Baner Road, Baner, Pune - 411045 India

Phone: 91 (20) 4076-6000 Fax: 91 (20) 4076-6010

●HORIBA Korea Ltd.

Fax: 1 (949) 250-0924

| HORIBA Instruments Incorporated | Irvine Office | Alvin, TX Office | 9755 Research Drive, | 17916, CA 92618, U.S.A. | TX 77511, U.S.A | Phone: 1 (949) 250-4811 | Phone: 1 (281) 482-4334 | Fax: 1 (281) 614-0303

 HORIBA Instruments
 Brasil, Ltda.
 Avenida das Nacoes Unidas,
 21.735 PT QD 17 - Jurubatuba
 Sao Paulo - SP - CEP
 04795-100 Brazil
 Phone: 55 (11) 55 45 1500 Fax: 55 (11) 55 45 1570

●HORIBA (Austria) GmbH

Austria Phone: 43 (2272) 65225 Fax: 43 (2272) 65230

●HORIBA Europe GmbH Head Office Hans-Mess-Str.6

D-61440 Oberursel Germany Phone: 49 (6172) 1396-0 Fax: 49 (6172) 1373-85

Julius-kronenberg Str.9 D-42799 Leichlingen

Leichlingen Office

Germany Phone: 49 (2175) 8978-0 Fax: 49 (2175) 8978-50

● HORIBA France Sarl 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

Printed in Japan TS-M(SK)23 Bulletin:HRE-1938A

Phone: 420 (2) 460-392-65

HORIBA Czech

Petrohradska 13, CZ-10100 Praha 10, Czech Republic