Fully automated one-touch operation, from oil extraction to measurement and draining.

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 industries)
- 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 standards
- Monitoring water quality around gas service stations and automobile repair shops
- 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
**Color graphic LCD**
The OCMA-500 comes equipped with a 3.5-in color graphic LCD. Menus and measurement data can be clearly seen.

**Unit conversion**
Inputting measurement conditions can change the units displayed (mg/L, mg/kg, mg/g, and mg/PC) as the user needs.

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

**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.

**USB flash memory drive port**
Storing data on USB flash memories enables easy data management on PCs.

**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

**Multi Languages**
“Japanese, English, Russian” languages are available.

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).

* N-hexane extraction method:
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.
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 \( \mu \text{m} \) to 3.5 \( \mu \text{m} \)
Measurement range: 0 mg/L to 200 mg/L
Resolution: For mg/L 0 to 99.9: 0.1, 100 to 200: 1
Repeatability: 0 mg/L to 9.9 mg/L: \( \pm 2 \) mg/L ±1 dig.
10.0 mg/L to 99.9 mg/L: \( \pm 0.2 \) mg/L ±1 dig.
100 mg/L to 200 mg/L: \( \pm 4 \) 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

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

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

Standard Accessory
- Filter element For water filter, diameter 40mm, 5 in package
- Dropper Polyethylene, 2.5mL
- Code set Power supply cable
- 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