



Explore the future

Automatic operation with one switch

Compact oil content analyzer OCMA-500 series.

Operability is significantly improved while user-friendly features of

the conventional products are maintained as they are.

This machine is easy for anyone to use because all you have to do is press a button. This can be utilized across wide variety of applications such as drain monitoring and guality control for components.

Easy and speedy measurement for approx. 3 minutes^{*1}

Measurement can be easily made in a short time only by pressing the start button. Measurement time can be significantly reduced in comparison with the n-hexane extraction method. *Excluding time for warming and calibration.



A (WARM UP)

Any oil with low boiling point can be measured

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



Improvement of operability

Color graphic liquid crystal

It is easier to see menu and measurement results because a 3.5 inch color graphic (LCD) is employed.



2014/02/04 11:04:03

Unit conversion function

Indication unit (mg/L, mg/kg, mg/g, mg/PC) can be changed according to the purpose by inputting the measurement conditions.

USB data output port

It is easy to control data in a personal computer by saving data in a USB memory. 'HORIBA recommended USB is available.



Output data (reference

Multi-language function

Japanese, English and Russian languages are available. Each language can be selected from the screen menu.



The OCMA-500 series extracts the oil components contained in a measurement sample into solvent (S-316) to measure the oil content with an IR analyzer.

*Carry out pre-washing for correct measurement.

Oily water sample (16 mL) Solvent (8 mL Add solvent (S-316) Agitate it thoroughly Oil components extracted into solve

For measurement of

Oil in wastewater

Oil Content Analyzer CMA-500

OCMA-500 to measure concentration of oil contained in drainage and environmental water. After injecting the water sample and solvent, 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 operations like opening/closing the drainage valve, monitoring is speeded up. In addition, the color graphic LCD and the backlit extraction tank have improved operability.



solvent

3 Extraction and measurement

Feature

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 and set the extraction time.

cost





Before extraction After extraction 'The color depends on the sample.

Fully used in various applications





For monitoring final discharge water

For monitoring discharge from ships

in case of OCMA-500

Water sample

Solvent with

oil components resolved











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



■Measurement mode

Measurement can be switched automatically or manually



Stirring, measurement and draining are automatially conducted after injection of the sample.



You can conduct measurement operation at any timing while checking the extraction state.









For monitoring water quality in surrounding areas



Water quality survey based on environmental standard. For monitoring final discharge from petroleum refinery plant. For oil dispersion research at time of an accident:

For measurement of Residual oil on components

Oil Content Analyzer

OCMA-550 to measure residual oil on components and concentrations of oil adhered on solids such as soil. Measurement can be easily made only by injecting the extracted water sample into the attached cell and setting it to the equipment. This model features a simple design which allows opening/closing of the door to setting of cell with just one hand. This is best for measurement of extracted samples such as evaluation of residual oil on components and measurement of oil contained in food.





solvent into cell



3 Set the cell to the equipment



100



Feature

solvent to extract oil

Cell is easily detachable with just one hand

Simple design which allows opening/closing of door and detachment of cell with just one hand. Measurement operation becomes smoother.



■Timer function

A timer function to display a measurement value in a certain amount of time is equipped. This saves work and time required for measurement.





For quality control of components



To prevent reduction of cooling function



For evaluation of degreasing capacity



Useful for soil (environmental pollution), food (health hazard) and gas (quality deterioration)



100....

Oil Content Analyzer **OCMA-500** Standard Accessory

Filter element	For water filter, diameter 40 mm, including 5 elements	
Dropper	Made of polyethylene, 2.5 mL	
Code set	Power supply cable (for domestic use	
B heavy oil	10 mL	
Instruction manual	OCMA-500	
Water absorptive sheet	Liquid tray from extraction tank	

Oil Content Analyzer **OCMA-550**

Dropper	Made of polyethylene, 2.5 mL	
Code set Power supply cable (for domestic		
B heavy oil	10 mL	
Instruction manual	OCMA-550	
Cell	Quartz (20 mm): 1 piece	
Cell cap	Cap for cell: 1 cap	

Solvent Reclaimer	SR-305
*Measuring is easy becau	use with stopper.
Option	
Oil extracted solvent	S-316

For water filter

SR-305

For extraction tank

Micro Syringe 25 µL

Micro Syringe 25 µL

Measuring Syringe (For Sample) 20 mL Measuring Syringe (For Solvent) 10 mL

Measuring Syringe (For Sample) 20 mL

Measuring Syringe (For Solvent) 20 mL

For the first purchase customer

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

Solvent Reclaimer

Option

(Simple type)

Oil extracted solvent S-316

Measuring Syringe set

Measuring Syringe set

(Standard type*)

Packing



Dimensional Outline (Unit: mm)



■Specifications

	OCMA-500
Measurement method	Solvent extraction - no
Measured objects	Substances extracted from sample water into solv
Measurement range	7
Resolution	For m
Repeatability	0 mg/L to 9.9 mg/L: ±0.2 mg/L ±1 dig 10.0 mg/L to 99.9 mg/L: ±2.0 mg/L ±1 d 100 mg/L to 200 mg/L: ±4 mg/L ±1 dig. *For stan
Display method	3.5 inches 320
Calibration method	Select each option
Amount of test sample required	2:1 (Sample water : Solvent)
Extraction solvent	S-316 *Do
Amount of extraction solvent required	8 mL (possible to measure even at 10m
Extraction method	Built-in extractor
Ambient operating temperature	٥°
Power supply	AC 1
Power consumption	AC 100 V: Approx. 60 VA, AC 240 V: Approx.
External dimensions	342 (H) X 200 (W) X 313 (D) mm
Mass	Approx. 7 kg
External output	Ou
Measurement flow	Automatic measurement (automatic switching sem manual measurement after injection of lice
Cell length	
Cell material	-
Functions	300-item data memory (measurement hist Self-error determination Stabilized measurement value display Clock function With backlight for stirred batch tank Unit conversion function

Please read the operation manual before using this product to assu

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	ОСМА-550
	e infrared absorption analysis method
	ing infrared absorption near a wavelength from 3.4 μm to 3.5 μm
	200 mg/L
	9: 0.1, 100 to 200: 1
lig. dig. andard liquids	0 mg/L to 9.9 mg/L: ±0.4 mg/L ±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
20×240 dots	Backlight color graphic LCD
tionally zero c	alibration and span calibration.
	-
o not use any	other solvent than S-316.
mL)	Approx. 6.5 mL (Amount of extraction solvent required)
	Using the extraction solvent, and extracted manually outside the product
0°C to 40°C (n	o condensation)
C 100 V to 240	V ±10%, 50/60 Hz
ox. 90 VA	AC 100 V - 240 V: Approx. 60 VA
	195 (H) X 253 (W) X 293 (D) mm
	Approx. 5 kg
Output to an Us	SB memory stick
sequence) and liquid	
	20 mm
	Quartz
istory) ay k	300-item data memory (measurement history) Self-error determination Stabilized measurement value display Clock function Unit conversion function
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