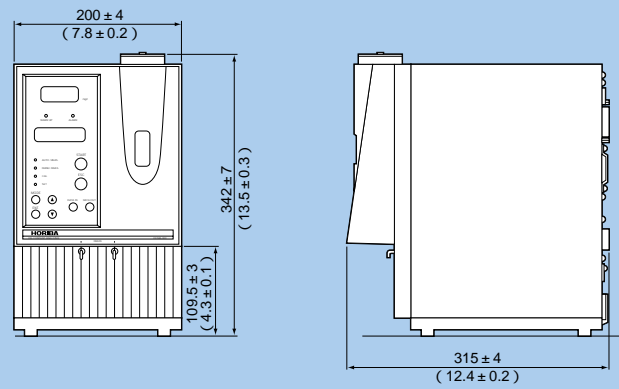


**Dimensional Outline** Unit: mm ( in )



**Recommended Applications**

- Industry** Monitoring of waste-water influent and effluent
- Marine Transportation** Bilge and ballast discharge
- Petroleum** Monitoring plant efficiency of oil/water separation
- Oil Depots** Monitoring of discharge from cleaning of storage tanks
- Automotive** Monitoring waste-water discharges from service stations
- Environment** Surveying environmental water quality and hazardous waste sites
- Quality Assurance** Measuring residual oil on textiles, metal parts, etc.

**HORIBA**  
Explore the future

OIL CONTENT ANALYZER  
**OCMA-300**

**SPECIFICATIONS**

**Application:** Oil contamination of fresh and salt water; soil analysis

**Principle:** Solvent extraction, NDIR analysis (Infrared spectroscopy)

**Detector:** Pyroelectric sensor

**Measuring Range:** 0 to 200 mg/L

**Resolution:**

0 to 99.9 mg/L; 0.1 mg/L

100 to 200 mg/L; 1 mg/L

**Repeatability:**

0 to 9.9 mg/L; ± 0.2 mg/L ± 1 digit

10.0 to 99.9 mg/L; ± 2 mg/L ± 1 digit

100 to 200 mg/L; ± 4 mg/L ± 1 digit

**Measurement:** Automatic after

introduction of the oily water sample or manual operation, selectable

**Calibration:** Automatic zero and span calibration after the oily water sample is introduced to the instrument.

**Extraction Solvent:**

HORIBA S-316 solvent

**Sample/Solvent Volume:** 20 mL/10 mL

**Extraction Method:** Built-in extractor for oily water samples

**Display:**

Measured value; 3 digits LCD with back-light

Message; Character display LCD with back-light (16 × 2 characters)

**Functions:** Data memory up to 50 data, Self diagnostics, Stable type display, Interactive operation, Calendar clock

**Output:** Digital display, RS-232C and parallel printer port

**Ambient Temperature:** 0 to 40

**Power Requirement:**

100 to 240 V AC ± 10%, 50/60 Hz

100 to 120 V AC; approx. 80 VA

200 to 240 V AC; approx. 120 VA

**Dimensions:**

200(W) × 315(D) × 342(H) mm

7.8(W) × 12.4(D) × 13.5(H) in

**Weight:** Approx. 7 kg/15.5 lb

**Model SR-300 Solvent Reclaimer (option)**

Designed especially for recycling S-316 solvent, it features a 2-layer column of activated carbon and activated aluminum. High capacity, simple operation, and needs no electricity.



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

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# Automatic measurement and 0 - 200 mg/L dynamic range simplify high-precision analysis of oil components.

The new HORIBA OCMA-300 oil content analyzer comes loaded with a welcome range of innovative features. A Powerful built-in computer makes the new version a joy to use. Just pour in an aqueous sample and solvent then push a single button. The OCMA-300 takes over and does everything for you – from extracting the oil components to measurement and drain. The whole process is fast, sure, super-accurate – and, of course, no more troublesome range-switching. Now anyone can make precision analyses without special training. For environmentally-friendly measurements, HORIBA has developed Type S-316 extraction solvent for use with the OCMA. The S-316 solvent can also be recycled by using HORIBA's optional Solvent Reclaimer. The OCMA-300 is much more versatile, even simpler to use. HORIBA is proud to introduce to the world a truly user-friendly oil content analyzer.

## Built-in computer automates calibration and measurement procedures.

Once you have introduced the solvent and oily water sample to the unit, just push the START button. Everything is automated – from mixing and extracting the oil components to measurement and drain. Calibration is a snap. Just introduce de-ionized water in place of the oily water sample, and the OCMA-300 handles the automated process for you.

### Auto-measurement

- inject solvent & oily water sample
- START \*1
- extraction & mixing process
- layer separation
- solvent transfer process
- measurement process
- data display \*2
- solvent & sample drain

#### (\* 1) Complete dispersion, mixing, and extraction.

The extraction chamber uses HORIBA's special-design agitator blades. Just push the START button to initiate a powerful rotary dispersion and mixing action. To assure proper measurement of your oil sample, the extraction time can be pre-set in 10-second increments to any desired interval - from 10 seconds to 10 minutes.

#### (\* 2) Automatic fill and drain

The sample cell is filled and drained automatically by solenoid valves. There are no clumsy manual valve to switch.

## 0 - 200 mg/L dynamic range

A pyro-electric sensor gives you a full dynamic range from 0 - 200 mg/L, with no need for range-switching. this makes the OCMA-300 perfect for fast, accurate measurements of all types of samples, from low to high concentration.

## Short warm-up time

Warms up in 20 minutes or less. This means you can get started three times faster than before.

## Optical adjustment unnecessary

The troublesome optical adjustments associated with conventional pneumatic NDIR analyzers is no longer necessary.

## Stable measurement readout

The OCMA-300 determines automatically when the measured value has stabilized, and holds that value for you. This means you always get consistent, stable data readouts.

## Self-diagnosis function

The unit self-monitors for any possible problems, e.g., glitches during measurement; motor or sample-transfer malfunctions; deterioration of the light-source; or electrical problems. Should anything out of the ordinary occur, you can spot it right away by a quick check of the warning lamps and the linked on-screen error messages.

## On-screen help and warning messages

A wide range of helpful on-screen assistance – including operational instructions, equipment status, and warning messages – streamlines all your measurement operations.

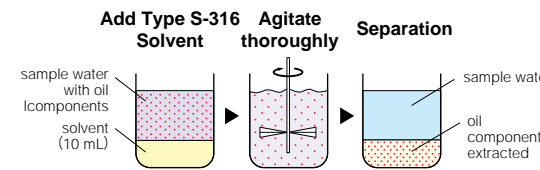


## 50 data sets in memory

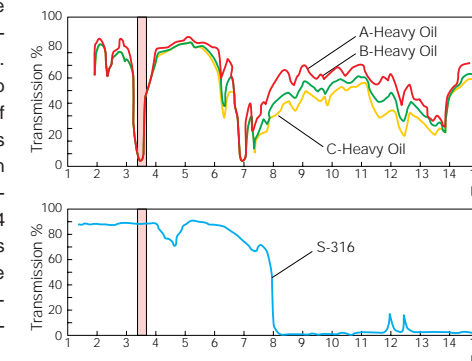
With just the touch of a button you can input and recall up to 50 data sets. Each data set includes measurement I.D. No., data and time of measurement, and measured value.

## Extraction Solvent Type S-316 extracts all oil components.

The OCMA-300 uses HORIBA's special S-316 Solvent to extract the oil components from the oily water sample. These are, then, measured by the infrared-absorption method.



The two graphs at right show the absorption spectra of (1) petroleum and (2) Type S-316 Solvent. All types of petroleum absorb infrared radiation in the range of 3.4 μm. Type S-316 Solvent does not absorb infrared radiation in this range. As a result, if measurements are taken in the 3.4 μm range, all the oil components that have been extracted can be measured precisely, with absolutely no influence from the presence of the S-316 Solvent.



## Special syringe measures out exact quantities of sample and solvent.

Not only does the OCMA-300's unique syringe-design assure you of exactly the right amount of oily water sample and solvent for each measurement, now there is no longer any worry about contamination-error caused by contact with the fin-gers.



## RS-232C and parallel printer ports

These ports link you to the world of MS-DOS computers and printers. The result? Easy printouts and transfer of your OCMA-300 generated measurement data, plus remote operation of the OCMA-300 right from your own PC keyboard.

