OIL CONTENT ANALYZER
OCMA-350
Compact and simple, HORIZA’s OCMA-350 oil content analyzer delivers quick, accurate measurements in the lab or in the field. It efficiently measures the level of oil in water or soil for environmental applications, checks for residual oil on semiconductor parts which have been cleaned, and measures oil on any industrial surface.

Using the OCMA-350 is almost effortless. Simply inject the extract from your sample, dissolved in Horiba’s S-316 solvent, into the measuring cell, and press one button. You can even use your PC to simplify operation.

**Recommended Applications**

- Environment: Surveying water quality and hazardous waste sites
- Industry: Monitoring wastewater influent and effluent
- Marine transportation: Checking bilge and ballast discharge
- Petroleum processing: Monitoring the efficiency of oil/water separation processes
- Oil depots: Monitoring the discharge produced when cleaning storage tanks
- Automotive: Monitoring waste-water discharge from service stations
- Quality Assurance: Measuring residual oil on textiles and metal parts.
The OCMA-350 has various special features to assure accurate measurements.

Stable readout
The unit’s data evaluation function analyzes the readings, determines when the value has stabilized, and displays that stable value.

Self-monitoring
Messages on the LCD screen inform you of any electrical malfunctions, irregularities in measurement, and deterioration of parts, so that you can always be assured of proper functioning.

Simplified recordkeeping
The OCMA-350 keeps a record of the time and date of measurement along with each data set it records. When printing out, it provides you with both the time and the measurement, allowing for easy recordkeeping.

HORIBA’s S-316 Solvent
The OCMA-350 uses the highly effective, environmentally-safe S-316 extraction solvent to extract the oil components from oily water samples, soil samples, or product surfaces. The extract is analyzed using IR absorbance, a non-dispersive infrared spectrophotometric technique which is specific to hydrocarbons such as oil.

The OCMA-350 measures absorption in the 3.4 to 3.5 micrometer range. The two graphs at the right show the absorption spectra of (1) petroleum and (2) HORIBA’s S-316 solvent. All hydrocarbons, including oils, absorb infrared radiation at about 3.4 to 3.5 micrometers. As a result, the unit can measure any hydrocarbons in the extraction solvent quickly and accurately, with no distortion of values due to the presence of the solvent.

HORIBA’s S-316 Solvent can be recycled with the aid of the optional SR-300 Solvent Reclaimer. Recycling the solvent not only cuts your solvent costs, but also helps protect the environment.
Horiba continues contributing to the preservation of the global environment through analysis and measuring technology.

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

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Specifications

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

Principle: Solvent extraction, NDIR analysis (infrared spectroscopy)

Detector: Pyroelectric sensor

Cell: Quartz cell, cell length 20 mm

Measuring range and unit: 0 to 200 mg/l, 0 to 1000 mg/kg, 0 to 1 Abs.

Resolution:
- mg/l: 0 to 99.9 mg/l; 0.1 mg/l
- 100 to 200 mg/l; 1 mg/l
- mg/kg: 0 to 9.99 mg/kg; 0.01 mg/kg
- 10.0 to 99.9 mg/kg; 0.1 mg/kg
- 100 to 1000 mg/kg; 1 mg/kg

Abs: 0 to 1000 Abs; 0.001 Abs

Repeatability:
- mg/l: 0 to 9.9 mg/l; ±0.4 mg/l ±1 digit
- 10.0 to 99.9 mg/l; ±2.0 mg/l ±1 digit
- 100 to 200 mg/l; ±4 mg/l ±1 digit

Abs: ±1% F.S.

Measurement: Manually controlled

Calibration: Automatic calibration after the calibration standard is introduced to the instrument

Extraction solvent: HORIBA S-316 solvent

Sample/solvent volume: Approx. 6.5 ml, ratio of sample to solvent is 1:1

Display: Measured value; 3 1/2 digits LCD with back-light

Message: Character display LCD with back-light (16 x 2 characters)

Functions: Self diagnostics, Auto hold function, Calendar clock

Output: RS-232C and centronics printer port

Ambient temperature: 0 to 40°C

Power requirement: 100 to 240 V AC ±10%, 50/60 Hz, 60 VA

Dimensions: 200 (H) x 250 (W) x 285 (D) mm

Weight: Approx. 5 kg/11 lb

External dimensions:
- 200 (W) x 200 (D) x 600 (H) mm
- 7.9 (W) x 7.9 (D) x 23.6 (H) in

Model SR-300 Solvent Reclaimer (optional)

Highly efficient, the SR-300 solvent reclaimer can reduce your per test solvent cost by up to 90%. This optional unit, designed especially for reclaiming HORIBA’s S-316 solvent, features a double column of activated carbon and activated aluminum. It has a large filtering capacity, is easy to operate, and requires no electricity.

External dimensions:
- 200 (W) x 200 (D) x 600 (H) mm
- 7.9 (W) x 7.9 (D) x 23.6 (H) in