

OIL AND GREASE IN WATER AND WASTEWATER BY INFRARED (IR)

Test Method

For the determination of oil and grease and nonpolar material in water and wastewater by an infrared (IR) determination of dimer/trimer of chlorotrifluoroethylene (S-316) extractable substances from an acidified sample. Included in this estimation of oil and grease are any other compounds soluble in the solvent.

Infrared Analyzer

- Analyze produced water on offshore oil rigs
- Monitor effluents from refineries or wastewater treatment and industrial plants
- Measurement of fats, oil and grease (FOG) discharges
- Determine efficiency of oil/water separation systems
- Conduct soil studies at remediation sites or around underground storage tanks
- Measurement of residual oil on pre-cleaned metal components
- Determine purity level of reclaimed solvents or virtually any on-site testing of water and soil requiring measurement of TOG and/or TPH concentration levels

Recommended for measuring total oil and grease (TOG) and total petroleum hydrocarbon (TPH) levels in water and soils, as well as fats, oil and grease (FOG) in water using the traditional EPA methods 413.2 and 418.1 with Freon-113 or ASTM Method D7066-04 with S-316, also compatible with other infrared transparent solvents such as hydrocarbon-free spectroscopic grade perchloroethylene, AK-225 or other infrared transparent solvent as the extracting solvent. The IR analyzer is ideal for on-site analysis to meet new European regulations. Since there is no evaporation step in the analysis the light end volatile components are retained for measurement.

Dimensions wxdxh,in.(cm)
6.5 x 6.5 x 5 (16.5x16.5x12.7)
Net Weight: 4.5 lb (2.0 kg)

Included Accessories
Power Supply
Instruction Manual



Specifications

Conforms to the specifications of:

ASTM D7066; EPA Methods 413.2 and 418.1

Type: Fixed filter infrared filtermeter

Display: 4 digit, 7-segment red LED, 5/8 in. character height

Measurement Range:

For Water: 2 – 1000 ppm (using a 10:1 extraction ratio)

For Soil: 3 – 5000 ppm (using a 1:2 extraction ratio)

Usable Solvents for Extraction Process:

Freon, perchloroethylene, S-316, AK-225 or other infrared transparent solvent

Analysis Time: 10-15 minutes, including extraction process

Operating Temperature Range: 40°F (4°C) to 110°F (45°C)

User Selected Calibration: Zero balance adjustment. Up to 20 point curve fitting calibration

Repeatability: ± 1ppm

Electrical Requirements: **CE**

Voltage – 12VDC, +2% max.

Power – 7.5 watts max., 5 watts typical

Input – Switchcraft 760 plug or equivalent, center positive

Suggested Power Sources:

Wall Supply; AC/DC converter type (supplied as standard)

12 volt auto battery adapter connector (optional)

Portable 12 volt battery pack (optional)

Ordering Information

Catalog No.

K25552 Infrared Analyzer, 12 VDC

Accessories

K25551-1 10mm Quartz Cuvette Cells, Set of 4

K25551-2 Car Adapter Cable

K25551-3 IR Sample Plate, pk 5

K25501 External 12V Battery Pack

K25502 Carrying Case

K25507 Dust Cover

K25509 Serial Printer



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