

labodam

Oil and Grease Analyzer

LOGA-A10



Oil and Grease analyzer LOGA-A10 is a tabletop analyzer with a sample testing range of 0.12 mg/L to 840 mg/L. The unit displays and prints the sample spectra, position and wave number of the absorption peak. It features self-contained optical and electrical system with high degree integration. Testing data and spectrograms can be saved to hard disk for checking and printing anytime. Sensor signal processing uses lock-in amplifier circuit improving the analyzer's SNR and the minimum detection limit.

Features

- Dismountable integrated optical system
 - Electrical modulation (reducing the intensity of the heat source to facilitate System cooling)
 - Sensor signal with lock in amplifier
 - Can be used as an infrared spectrophotometer
 - Carbon tetrachloride can be replaced by tetrachlorethylene extraction agent
 - Self-contained optical system and electrical system
 - High speed measurement (30 secs to finish a test)
 - Built-in auto reset and regression equation calculation
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Applications

Used to monitor oil content in surface water, ground water, industrial effluent and oil content of solid

Specifications

Model No	LOGA-A10
Testing range	0.12 mg/L ~ 840 mg/L
Detection limit	< 0.12 mg/L (CCl ₄ extraction agent) (direct testing with 5 cm Quartz cuvette)
	< 0.001 mg/L (water sample) (extraction ratio of 100 : 1) (5 cm Quartz cuvette)
Measurement speed	30 secs per test
Testing density	640000 mg/L (dilution testing)
Testing accuracy	± 0.5 (C < 10 mg/L)
	± 2 % (10 ≤ C ≤ 80 mg/L)
Resolution	0.1 mg/L
Environmental temperature	5 °C to 35 °C
Environmental humidity	20 % to 80 % RH
Zero stability	± 1 % (24 hrs)
Repeatability	≤ 1 % (20 mg/L oil sample)
Linearity	R ≥ 0.999
Wave number range	3400 cm ⁻¹ to 2400 cm ⁻¹
Absorbance range	0.000 ~ 3.000 AU
Baseline drift	Absorbance < 0.001 AU / 60 min
Power supply	220 V ± 22 V / 50 Hz ± 1 Hz
Dimensions	550 x 380 x 150 mm
Weight	15 kgs