

Infrared Oil Content Analyzer

ATE8320

Features

- Compliant with National Standards
- Tetrachloroethylene or carbon tetrachloride extraction
- Standard curve calibration
- 7-inch high-definition color large screen
- Standard triple-beam at 2930 cm^{-1} , 2960 cm^{-1} , 3030 cm^{-1}
- Ultra-high stability: During data acquisition, a ratio-monitoring dual-beam optical system ensures high precision and long-term stability
- Multi-range cuvette, suitable for 0.5–4 cm path length cuvettes
- High-performance computer for instrument control and data processing
- Ultra-low noise
- High stability
- User-friendly full Chinese analysis software

Applications

- Suitable for the determination of petroleum hydrocarbons in surface water, groundwater, and seawater.
- Suitable for the determination of petroleum hydrocarbons in soil.
- Suitable for the determination of oil mist and fumes in exhaust gases from stationary pollution sources.

Description

The ATE8320 Infrared Oil Content Analyzer is an entirely new, high-precision instrument meticulously engineered by Aopu Tiancheng. Designed for versatile environmental and industrial applications, it enables accurate measurement of total oil content in water, petroleum hydrocarbons, and animal or vegetable oils; petroleum hydrocarbon content in soil; as well as oil concentration in exhaust fumes and mist. Featuring a built-in 7-inch full HD color touchscreen with an intuitive visual interface, the device ensures straightforward operation and enhances user experience through clear, real-time data display and interactive controls.



1. Parameter

Model	ATE8320
Wavenumber range	Wavenumber range: 3400 cm ⁻¹ to 2400 cm ⁻¹ (wavelength 2941 nm to 4167 nm)
Testing Beam	2930 cm-1、2960 cm-1、3030 cm-1
Number of sample cell channels	6 channels, automatic switching
Wavelength accuracy	±0.5cm-1
Wavelength repeatability	±1cm-1
Testing range	0~800mg/L
Resolution	0.0005mg/L
Method Detection Limit	0.06 mg/L (for oil in water)
Accuracy error	≤2.0%
Repeatability stability	RSD≤0.6%
Absorbance range	0.0000–2.0000 AU, corresponding to a transmittance of (100–1)%T
Linear correlation coefficient	R>0.999
Wavelength scanning speed	Full spectrum scanning, 30 seconds per scan
Calibration method	Built-in calibration curve: The instrument does not require manual standard curve preparation and supports one- key measurement.
Print	Built-in printer, capable of printing current data and historical data at any time.
Power supply	220 ± 10%V,50Hz
Specifications	455 × 286 × 225mm
Power supply and power consumption	AC220V , 100W