

Ultraviolet oil content analyzer

ATE8310

Features

- Complies with National Standards
- n-Hexane/Petroleum Ether Extraction
- Standard Curve Calibration
- Ultra-High Stability: During data acquisition, a ratio-monitoring dual-beam optical system ensures high precision and long-term instrument stability.
- Automatic Six-Cell Tray: Holds 6 samples at once, greatly increasing sample analysis speed.
- Ultra-Low Stray Light
- Ultra-Low Noise
- High Stability
- Sleek Appearance
- Intuitive, fully Chinese analysis software that is simple, aesthetically pleasing, and easy to operate

Applications

Suitable for the determination of petroleum in surface water, groundwater, and seawater, this instrument is designed as a portable miniature spectrometer, making it ideal for rapid on-site analysis in field applications.

Description

ATE8310 is a meticulously crafted new product by Aopu Tiancheng. It adopts a dual-beam optical system paired with a high-performance grating to ensure detection accuracy, enabling the instrument to achieve high precision and reliability.

The ATE8310 has a USB data output interface for easy computer connection, facilitating data processing. Additionally, it features a 7-inch high-definition large screen that displays data and spectra without a computer, allowing users to view results quickly and conveniently.

To address light source performance decline over long use, the ATE8310 uses a flashing pulsed xenon lamp. This lamp needs no warm-up time, saving operational time, and its excellent performance ensures long-term use without frequent replacement, thus cutting maintenance costs.

The ATE8310 also boasts an innovative design with status indicator lights on the UV-Vis spectrophotometer. Different light colors represent different operational states, allowing users to intuitively grasp the instrument's status and proceed with next steps efficiently.



1. Parameter

Model	ATE8310
Wavelength Range	190-1100nm
Test Wavelength	225nm
Measurement Parameter	Petroleum
Optical System	Dual-beam
Number of Sample Cell Channels	6 channels, automatic switching
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	±0.2nm
Measurement Range	0~50mg/L
Resolution	0.0002mg/L
Method Detection Limit	0.01mg/L
Accuracy Error	≤2.0%
Repeatability Stability	RSD≤0.6%
Analysis Time	12 minutes per single sample; 9 minutes per subsequent sample during continuous multi-sample measurement
Spectral Bandwidth	0 . 5 nm
Transmittance Repeatability	±0.15%
Stray Light	≤0.03%
Photometric Mode	Transmittance; Absorbance; Concentration; Energy
Wavelength Adjustment	Automatic Adjustment
Photometric Range	-4~4A
Light Source	Long-life Pulsed Xenon Lamp
Detector	Photocell
Noise Level	±0.001Abs
Photometric Accuracy	±0.3%T
Data Output	USB Interface
Specifications	455 × 286 × 225mm
Power Supply and Power Consumption	AC220V , 100W