



ULTRA VIOLET FLUORESCENCE SULFUR ANALYZER

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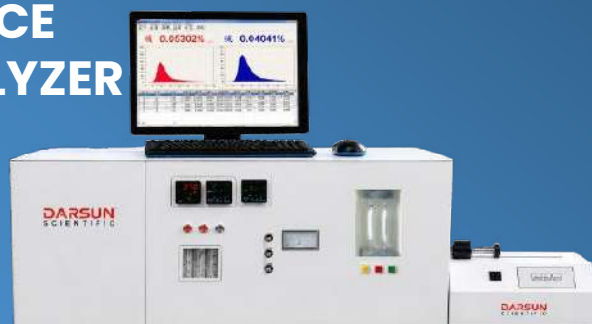
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DS-0YD689



Product Overview

The Ultraviolet Fluorescence Sulfur Oil Analyzer is a high-precision analytical instrument designed for the rapid and reliable determination of sulfur content in petroleum products, fuels, and hydrocarbon samples. It uses **ultraviolet fluorescence technology**, where the sample is converted into sulfur dioxide through high-temperature combustion and the resulting fluorescence signal is measured to determine sulfur concentration.

FEATURES

Product Features

1. Desktop computer, Windows operating platform. All parameter settings and tests can be completed through direct human-machine dialogue.
2. Using computer control technology to automatically complete data collection, processing, storage and printing, the test has a wide linear range and strong anti-interference ability.
3. Using imported fluorescence excitation source, membrane desiccant, filter, etc., the test has high sensitivity, fastness, stability, high precision and good consistency.
4. Adopt advanced temperature control system, rapid and stable heating, temperature control accuracy can reach $0.5\% \pm 1^{\circ}\text{C}$ in the full temperature control range.
5. It can test the sulfur content of liquid, gas and solid samples, with strong adaptability and wide application fields.
6. Adopting an assembled integrated desktop structure design, the host, computer system, temperature and flow controller, and sampler form a whole, which is novel and beautiful.
7. Require less samples and test fast. The machine test time for each sample is about 2 minutes.
8. II. Main Technical Specifications

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Technical Specification

Parameter	Specification
Test method	Pulsed ultraviolet fluorescence method
State of measurable samples	Liquid, gas, solid
Measurement range	0.1 mg/L ~ 10000 mg/L (Liquid)
Lower detection limit	0.05 mg/L
Repeatability error	$X \leq 0.5 \text{ mg/L}: \pm 0.1 \text{ mg/L}$
	$0.5 \text{ mg/L} < X \leq 1.0 \text{ mg/L}: C_v \leq 10\%$
	$1.0 \text{ mg/L} < X \leq 5.0 \text{ mg/L}: C_v \leq 5\%$
	$X > 5.0 \text{ mg/L}: C_v \leq 2.5\%$
Temp. range	Room temperature ~ 1200°C
Temp. control accuracy	$0.5\% \pm 1^\circ\text{C}$
High voltage range	DC 0V ~ 900V, according to the concentration of the measured sample; set the required value through the operating system
Power supply	AC 220V $\pm 22\text{V}$, 50Hz $\pm 1\text{Hz}$
Total power consumption	$\leq 3\text{kW}$
Dimension	660mm × 500mm × 400mm (Computer is not included)