



Microcoulomertic Sulfur Content Analyzer

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Microcoulometric Sulfur Content Analyzer

DS A- 01330



Product Overview

The DSA-01330 Microcoulometric Sulfur Content Analyzer applies microcoulometric analysis technology, using the oxidation method to convert samples into titratable ions through a pyrolysis furnace, which are then titrated in the titration cell. The sulfur content in the sample is calculated based on the electricity consumed during the electrolytic titration process, according to Faraday's law of electrolysis.

Product Features

1. Direct human-machine dialogue for convenient operation.
2. Computer-controlled entire analysis and data processing process, displaying the working status of the entire process; parameters and results can be saved or printed as needed.
3. Uses standard circuits and precision components, reducing instrument noise and improving detection sensitivity.
4. Features stable and reliable performance, simple operation, high analysis accuracy, and good repeatability.

Application

1. Petroleum & Fuel Testing – Determination of sulfur content in gasoline, diesel, kerosene and other petroleum products.
2. Refinery & Petrochemical Industry – Monitoring sulfur levels during refining and quality-control processes.
3. Fuel Quality Control – Ensures fuels comply with required sulfur-content specifications and standards.
4. Lubricant & Hydrocarbon Analysis – Analysis of sulfur in light petroleum products and hydrocarbon samples.
5. Environmental Monitoring – Supports testing of sulfur-containing compounds to help control emissions and pollution.
6. Research & Quality Laboratories – Suitable for routine sulfur and chlorine analysis in laboratory applications.

FEATURES

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Technical Parameter

Parameter	Specification
Bias Voltage Range	0–500 mV
Measurement Range	0.1–10000 ng/μl
Temperature Control Range	Ambient temperature to 1000°C
Temperature Control Accuracy	±1°C
Measurement Accuracy	Sample Concentration: 0.2 ng/μl — RSD: 35%
	Sample Concentration: 1.0 ng/μl — RSD: 10%
	Sample Concentration: 100 ng/μl — RSD: 5%
	Sample Concentration: 1000 ng/μl — RSD: 2%
Gas Source Requirements	Pure nitrogen and pure oxygen
Power Supply	AC 220V ±10%, 50 Hz ±10%
Power	≤3500 W

Dimensions

Component	Dimensions
Main Unit	410 × 350 × 75 mm
Temperature Controller	530 × 420 × 360 mm
Stirrer	290 × 270 × 360 mm
Sampler	350 × 130 × 140 mm