KD4 Optical Emission Spectrometers

1. Product Introduction

KD4 direct-reading spectroscopy analyzer creatively combines the world-leading argon circulation technology; it analyzes iron and aluminum matrix materials, and can quickly and accurately quantify quantitative analysis, It is the ideal solution for metal material quality control and scientific research ..

The KD4 direct-reading spectroscopy analyzer uses the most advanced CMOS signal acquisition equipment from Hamamatsu, Japan. Each CMOS can set the number of sparks separately. It adopts an argon-filled light chamber design and a fully digital excitation light source. This CMOS spectrometer not only has the characteristics of a full spectrum CCD spectrometer, but also has the advantages of a PMT spectrometer, and has very low detection limits for non-metallic

elements. The whole machine is designed reasonably. It also has the advantages of simple operation, high testing accuracy, and long-term stability.

2. Main technical parameters

Optical system	Paschen-Runge Optical System
	High resolution, multi-CMOS detector
	Wavelength: 165-580nm
	constant temperature
Testing substrate	Iron, aluminum, copper substrate
Spark table	Open spark racks reduce gas consumption
	Sample clip: Customized
	Four-way argon flushing design
	Easy to clean and maintain
Excitation light source	Programmable digital source
	Maximum discharge frequency: 1000Hz
	Maximum discharge current: 400A
	Spark excitation pulse: 20-230V
	Aperture: 13mm

Argon	Purity: 99.999%
	Import pressure: 0.5 MPa
	Excitation flow: 3.5L/min Standby flow: 0.1L/min.

3. Main technical characteristics

Argon circulation

Excellent optical sealing properties can maintain argon purity for a long time.

Advanced argon purge optics optimize the performance of UV components.

The argon gas circulation filter device can eliminate air molecules and improve the reliability of the optical system.

The stable pressure of the optical device can avoid optical drift and improve the long-term stability of the instrument.

Low argon consumption and economic efficiency.

CMOS full spectrum analysis technology

Rich spectra, better analysis accuracy.

The full spectrum distinguishes the background and improves the accuracy of the analysis.

Intelligently select the appropriate sensitive wavelength and apply multi-spectral fitting technology to have outstanding performance on the general value of the content.

The application of multispectral fitting technology eliminates spectral interference and achieves accurate measurements.

Original real-time intelligent drift correction technology

Real-time spectrum drift correction during analysis to enhance the stability of the instrument.

Automatic calibration, easier operation. Reduce the standardization frequency.

Professional and simplified operation software

Smart Programs

Intelligently select matching programs for more accurate analysis results

Enable quantitative analysis of unknown samples.

Quality control

Easily set upper and lower limits according to users' quality standards.

Automatically determine whether the sample ingredients pass.

Level identification

Quickly identify sample grades and easily classify unknown materials.

Automatic diagnostic system

The software interface indicates the real-time instrument operation status.

Warn of instrument maintenance and cleaning time.

One-click operation

One-click operation, quick and easy operation, and adjust according to factory requirements.