

OES-3600

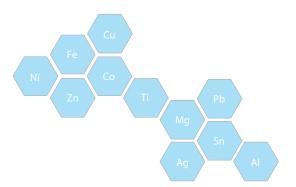


Optical Emission Spectrometer (Full Spectrum Spark OES)









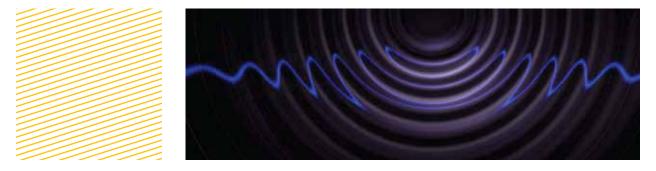


OES-3600 is widely used for production process control and finished product lab testing in such fields as metallurgy, casting, machinery and metal processing. It can be used for chemical composition analysis of Ferrum, Aluminum, Copper, Nickel, Cobalt, Magnesium, Titanium, Zinc, Lead, Stannum, Silver and other metals and alloys.

Overview

OES - 3600 Optical Emission Spectrometer uses high-resolution linear CCD (Charge - coupled Device) to perform full-spectrum scanning. It is widely used to analyze elements of a variety of base metal samples. Its advantages include unrestricted by the photomultiplier arrangement, ability to test any elements without changing the hardware, and easy maintenance. Its excitation light source is a fulldigital solid-state light source with excitation energy and continuously adjustable frequency, suitable for various materials, and USB or NET - based acquisition with better adaptability.

Characteristics



- Multiple CCDs for full-spectrum scanning of spectral lines within available ranges.
- Full-digital solid-state light source with excitation energy and continuously adjustable frequency, suitable for various materials.
- Wide application fields, not limited by channels and matrixes of conventional in struments.
- Single plate lens holder, greatly reducing contamination to light chamber during wiping.
- USB or NET-based acquisition for better adaptability.
- New isolation valve for stable and reliable operation to prevent oil in the vacuum pump from being drawn back to the light chamber.
- Copper spark stand base with better heat radiation and durability.
- Argon gas consumption low, only is 1/2-1/3 of inflatable type flush CCD spectrometer.



Technical specifications and advantages

Spark excitation source

- Discharge parameters protected by passwords.
- Continuously adjustable light source frequencies, energy and other parameters.
- Maximum discharge frequency: 1000Hz

Integral acquisition

- USB-based data acquisition for stable data transmission and low configuration
- Multi-thread data acquisition to improve the stability of the software and data reliability.

Vacuum system

- All-new casted light chamber, super low thermal expansion coefficient, stable performace;
- Vacuum control by a vacuum pump and controller ;
- New isolation valve for stable and reliable operation to prevent oil in the vacuum pump from being drawn back to the light chamber.
- Non-continuous working vacuum control, pump working ratio less than 5%.

Argon gas consumption

- Vacuum optical system, free of argon flush.
- Argon gas consumption low, only is 1/2-1/3 of inflatable type flush CCD spectrometer.

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Analysis software

- Calculation of different curves of various matrixes;
- User-friendly software;
- Self-developed automatic burden proportioning software for automatic generation of burden proportioning plans based on testing results.

Communication device

 A variety of communication modes to meet different user needs and data transmission to remote terminals or printers for online analysis, remote monitoring, diagnosis and maintenance

Basic parameters of instrument

- Power supply
- Outline dimensions
- : 995(L)×680(W)×650mm(H)
- Weight
- Operating environment
- : About 110Kg
- : Temperature: 10 40 Humidity: less than 75%

: 220V±10%, single-phase 16A, 2.5KVA

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Corporate & Regd. Office: Analytical House, # E67 & E68, Ravi Park, Vasna Road, Baroda, Guiarat 390 015. INDIA T: +91 265 2253620 +91 265 2252839 +91 265 2252370 F: +91 265 2254395 Analytical Bio-Med Analytical Distributors

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