

X-RAY
WAVE DISPERSION
SULPHUR ANALYZER



BOUREVESTNIK, Inc.

Since 1959

RESEARCH + DEVELOPMENT + PRODUCTION



ASV-1



X-ray Wave Dispersion sulphur analyzer ASV-1 is designed for detection of low sulphur in various products revised: oil, gasoline tries, diesel fuel, etc.

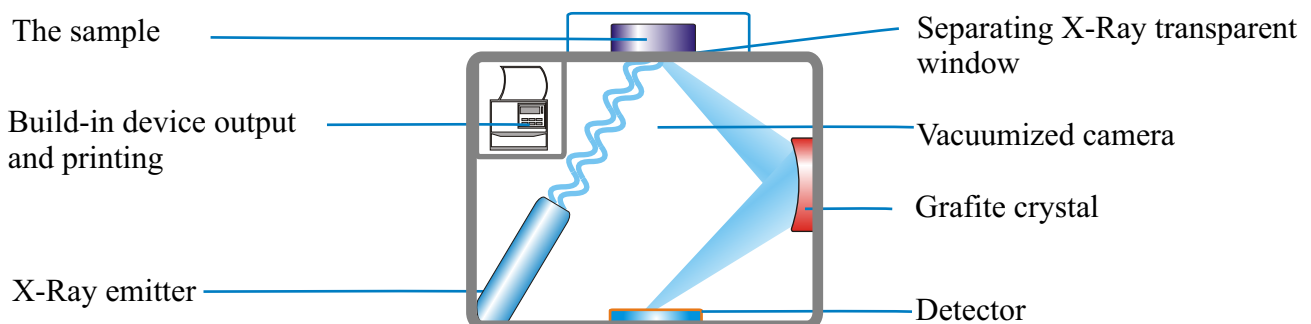
By the range of measurements and accuracy performance meets:

**ASTM D 6334,
ASTM D 2622-2005
(EN ISO 20884:2004,
IP 497/05)
GOST R 52660-2006**

Main Advantages

- ASV-1 built on a Johann diffraction scheme, which provides high spectral resolution
- An important technical feature of ASV-1 is the presence of **vacuumized camera**
- The optical way of fluorescent x-ray radiation passes in vacuum, however the sample in the time of measurements remains in the air (patented)
- **No need helium** for measuring volume - significantly reduces the cost of ongoing tests and increases the serviceability of the device
- This device has a low sensitivity to the accuracy of the sample.
- Analyzer has very high **spectral resolution** among up-to-date which provides high results in detecting analyzers, sulfur in petroleum and petrochemical products, which is especially important in the presence of interfering elements.
- Original **correction of matrix effects** is provided in ASV-1.

Functional scheme of ASV-1



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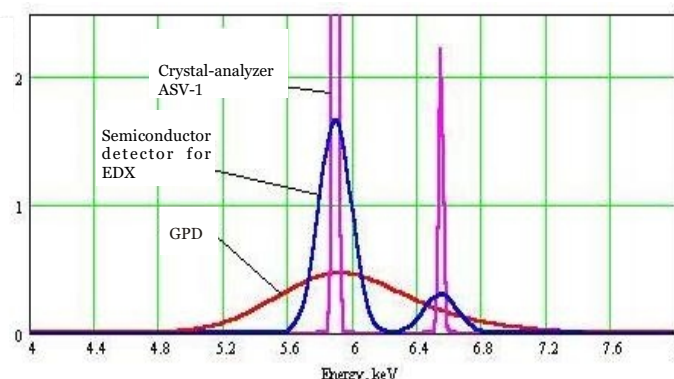
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Graphs of energy resolution on line Mn $K\alpha$, $K\beta$ of:

- Different types semiconductor detector (R = 4%, 236 eV),
- GPD (R = 16,5%, 973 eV),
- Crystal-analyzer ASV-1 (R = 0,5%, 30 eV).



• Technical Data

- Range of sulfur content to be determined 0,0005 – 5%
- Limit of detection 0,00015%
- Repeatability of measurements during 200 sec at concentration 0.002% (R=0.95) do not exceed 0,0002%
- Instrument error, less..... 0,5%
- Consumption 250 250 VA
- Weight..... 45 kg
- Power 220B, ~50 Ghz
- Dementions..... 450x415x400 MM

• Service

Bourestnik, Inc provides training of client's personnel in working on the analyzer, warrantee 12 months and after-sales service, metodical and technical assistance.

• Convenience in work

- In memory of the analyzer can be stored up to 5 calibration curves for different types of oil products.
- Large display, convenient function keys, flexible software make analyzer ASV-1 easy in operation.
- Management of the device, Concentration calculation is carried out by means of the intergrated microprocessor device.
- Print possibility of information on analysis on the integrated thermal printer.
- One can also display the results of analysis PC.
- Convenient disposable boxes and expanded complete set of spare materials make work easy and long.

• Contacts:

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