SPECTROSCAN SW D3

WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE SULFUR ANALYZER

SPECTROSCAN SW-D3 is specially designed for precise determination of ultra-low sulfur contents in diesel, gasoline and other distillate oil, as well as high contents of sulfur in petroleum and petroleum products in accordance with ISO 20884, ASTM D6334, ASTM D2622.

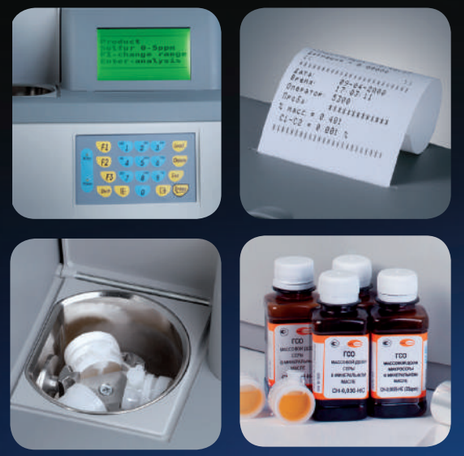
MEASUREMENT PROCEDURE

Minimum operator actions:

- enter a number or a name of the sample using an inbuilt key-board;
- fill in two sample cups with the sample;
- put in the samples into the analyzer and start measurements.

All remaining operations run automatically:

- calculation and displaying the sulfur content in the sample;
- repeatability reporting – difference between measurements of the first and second samples;
- printing out the results of measurements.



ADVANTAGES

- Lower limit of detection - (S) 0,2 ppm.
- No Helium blowdown is requied: sample analysis in air, optics are under vacuum.
- Simple in use benchtop analyzer.
- Three position automatic sample changer makes analysis of sample replicates easy.
- The sample data and analysis results are shown on the display and printed out by inbuilt printer.
- Special sample cups with vent are developed for volatile petroleum products.

DUE TO LATERAL POSITION OF THE SAMPLE CUP DURING MEASUREMENT:

- Errors due to water and air bulbs in sample are excluded.
- Contamination with petroleum products of the inner parts of the analyzer is excluded.
- Additional errors due to contamination of an extra protection film are excluded.
- Easily cleaned sample changer.

SPECIFICATIONS

Determined element	S (sulfur)
Limit of detection for 100 s	0,2 ppm
Low measured range	from low to 5,0 %
Sample changer	automatic 3-position with lateral loading
Sample cups, diameter, volume	Ø 32 mm, V 8 cm^3, ventilated
X-ray tube	40 kV, Cr-anode, 160 W
Analyzing crystal	doubly curved PG
Detector	sealed proportional counter
Typical time of analysis	8 minutes for two samples (selectable)
Computer	embedded dedicated processor
Interface	inbuilt display, membrane keypad and thermal dot printer RS-232C data output
Dimensions and weight (mot more)	530 x 480 x 340 mm, 40 kg– analyzer 330 x 230 x 380 mm, 9 kg– vacuum pump
Power supply	220 V, ~ 50 Hz, 750 W