

XFS - 3040/3294

Automatic X-ray Fluorescence Sulfur Analyzer



3294



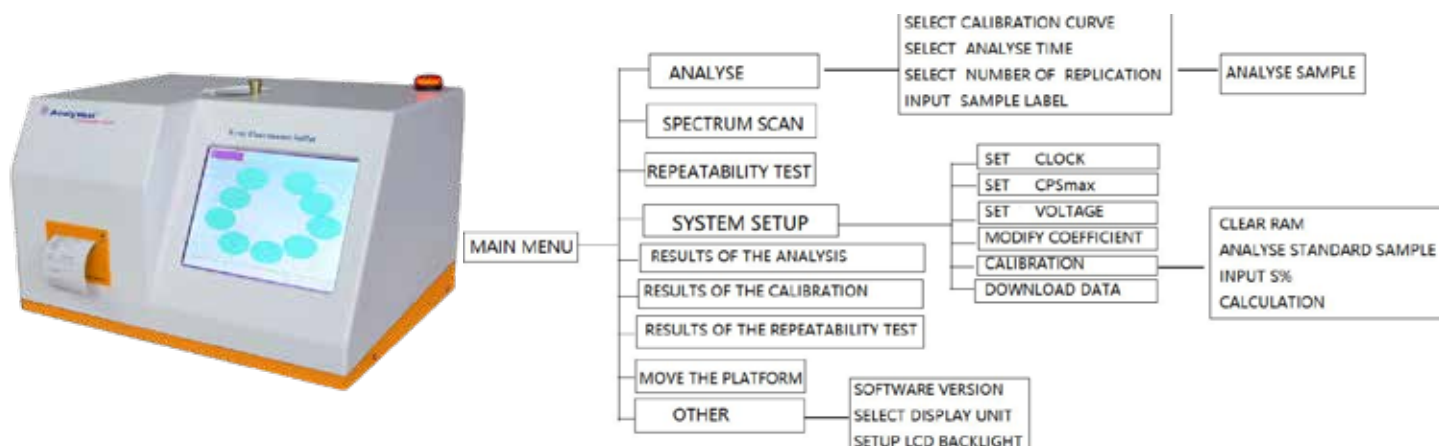
3040

►► Introduction :

- Environment pollution is attracting more and more governments and public concern. The cry for ecological environment and atmospheric environment protection is increasingly louder. The key culprit to atmospheric destruction and pollution is discharge of CO₂ and SO₂, which are from combustion of power fuels. Lowering down the sulfur content in the gasoline, diesel oil, heavy oils used in vehicles, ships, and airplanes will highly reduce pollution to atmosphere. Europe and our government have promulgated a series of standards on sulfur content of petroleum products to restrict its production and discharge. SO₂ may also cause catalyst poisoning in petrochemical industry and form acid rain in the atmosphere.
- The instrument is specially designed to determine sulfur content in the petroleum products. Adopts energydispersive principle, and with electrical, mechanical and microprocessor integration design, so it is rapid and accurate. It can meet the requirements of National Standard GB/T 17040 and GB/T11140 on repeatability and reproducibility, and it can also meet requirements of XFS 3294 on these indexes. It provides a measure to determine sulfur content during petroleum or petrochemical production process.

►► Application :

- It can be used to determine mass% of total sulfur in the crude petroleum, petroleum, heavy oil, diesel oil, gasoline, and naphtha.
- It can be used to determine total sulfur content in the products of coal chemical industry, such as primary benzene.
- It can be used to determine total sulfur or sulfide in other liquid or solid powder samples.



►► Features :

- The instrument adopts electromechanical integrated micro-computer design, 8-inch wide viewing angle capacitive touch screen (1024*768) display, backlight brightness can be set by the software, no keyboard is needed, and the interface is simple and beautiful.
- Wide variety of detection, wide measuring range, fast analysis speed, less sample consumption.
- Using the fluorescence intensity ratio analysis method, the temperature and air pressure are automatically corrected, and the hydrocarbon ratio (C/H) can also be corrected.
- The automatic diagnosis function of the instrument determines the working state and electrical parameters of the instrument.
- Using the disposable Mylar membrane sample cup, it can avoid cross-contamination; the sample cup is made of multi-function pressing, which is quick and convenient.
- The sample stage is positioned accurately, it is very convenient to place the sample and replace the oil leakage prevention component, and avoid the possibility that the detection system is contaminated.
- The instrument has a large amount of data storage. The default storage is 4096 content analysis results, 8192 count measurement data and 16 instruments calibration result data, the data can be queried, and it can also be uploaded to the computer through the RS-232 standard serial communication port.
- The instrument has the function of automatic peak stabilization, when the performance of the detector decreases, the system can automatically adjust the high voltage and correct the error.
- The instrument automatically selects the working curve by default, without user intervention.
- The user can select the measurement result unit, ppm or (m/m)%.
- Safety protection measures of X rays can prevent ionizing radiation damage to individuals or groups.

►► **Specification :**

1	Measuring range	17 ppm to 5%
2	Repeatability (r)	<0.02894 (S+0.1691)
3	Reproducibility (R)	<0.1215 (S+0.05555)
4	Detection limit	7 ppm
5	Oil sample quantity	3 ml (it is equal to sample depth of 3 mm~4 mm)
6	Measurement time	It can be set to 30s or 60s or 90s or 120s or 150s
7	It can make measurement automatically for single sample	Replication times can set 1,2, 3, 5, 10 at random; it will show average value and standard deviation at end of measurement.
8	Calibration curve numbers	It can save 10 calibration curves
9	Working condition	a. Ambient temperature: 5~30°C
		b. Relative humidity: ≤85% (30 °C)
10	Power supply	AC 220V±20V, 50 Hz; Rated power: 30 W
11	Dimension and weight	460mm*260mm*260mm; 12 kg

►► **Key Advantage :**

Model - XFS-3040 (ASTM D4294)

- 1) The Measuring Range is 17 ppm5% (S0000ppm)
- 2) The detection limit is 1ppm

Model - XFS-3294 (ASTM D4294)

- 1) It comes with 8-inch wide viewing angle capacitive touch screen (1024*768) display.
- 2) It has a large amount of data storage.
- 3) It has the function of automatic peak stabilization.
- 4) It selects the working curve by default, without user intervention.
- 5) The user can select the measurement result unit, ppm or (m/m)%.

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