

SYD-0689 Ultraviolet Fluorescence Sulfur-in-Oil Analyzer

Summary

This instrument is made as per the requirements of the People's Republic of China Industry Standard SH/T 0689 Light Hydrocarbons, Engine Fuels and Other Oils for the Determination of Total Sulfur Content (Ultraviolet Fluorescence Method). It is designed and manufactured using a combination pulsed ultraviolet fluorescence method and computer control technology. It is suitable for testing the low-sulfur content of gasoline and diesel including National V standards, as well as the testing of total sulfur content in liquid, gas, and solid samples. It can be widely used in petroleum, chemical industry, electric power, coal, food, environmental protection and other fields. It is a sulfur content analysis instrument with advanced technology and wide application in China.



I. Main technical features

1. Desktop computer, windows operating platform. All parameter settings and tests can be completed through direct human-machine dialogue.
2. Using computer control technology to automatically complete data collection, processing, storage and printing, the test has a wide linear range and strong anti-interference ability.
3. Using imported fluorescence excitation source, membrane desiccant, filter, etc., the test has high sensitivity, fastness, stability, high precision and good consistency.
4. Adopt advanced temperature control system, rapid and stable heating, temperature control accuracy can reach $0.5\% \pm 1^{\circ}\text{C}$ in the full temperature control range.
5. It can test the sulfur content of liquid, gas and solid samples, with strong adaptability and wide application fields.
6. Adopting an assembled integrated desktop structure design, the host, computer system, temperature and flow controller, and sampler form a whole, which is novel and beautiful. .
7. Require less samples and test fast. The machine test time for each sample is about 2 minutes.

II. Main technical specifications

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|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Test method: | Pulsed ultraviolet fluorescence method |
| 2. State of measurable samples: | Liquid, gas, solid |
| 3. Measurement range: | 0.1mg/L~10000mg/L (Liquid) |
| 4. Lower detection limit: | 0.05mg/L |
| 5. Repeatability error: | $X \leq 0.5\text{mg/L}$; $\pm 0.1\text{mg/L}$
$0.5\text{mg/L} < X \leq 1.0\text{mg/L}$; $C_v \leq 10\%$
$1.0\text{mg/L} < X \leq 5.0\text{mg/L}$; $C_v \leq 5\%$
$X > 5.0\text{mg/L}$; $C_v \leq 2.5\%$ |
| 6. Temp. range: | room temperature~1200℃; |
| 7. Temp. control accuracy: | 0.5%±1℃ |
| 8. High voltage range: | DC 0V~900V, according to the concentration of the measured sample, set the required value through the operating system |
| 9. Power supply : | AC 220V±22V, 50Hz±1Hz |
| 10. Total power consumption: | ≤3kW |
| 11. Dimension:
not included) | 660mm×500mm×400mm (Computer is |
| 12. Net weight: | 40kg (Computer is not included) |



Sulfur standard samples, 1 Box