

YK-0689N Ultraviolet Fluorescence Sulfur, Nitrogen-in-Oil Analyzer



Summary:

The instrument adopts the principles of ultraviolet fluorescence (S) and chemiluminescence (N), and is widely used in petrochemical, import and export commodity inspection, biopharmaceuticals, environmental protection, health, teaching, scientific research and other departments, crude oil, distillate oil, petroleum gas, petrochemical industry Total sulfur/total nitrogen content in products, foods, etc.

Standard:

S: ASTM D5453、D6667、D7183、GB/T 17930、GB/T 11060、SH/T 0689
 N: ASTM D4629、D5762、GB/T 17674、SH/T 0657、0704

Specification:

- Measurement range: 0.1mg/kg~10000mg/kg~% (S)
 0.1mg/kg~10000mg/kg~% (N)
- Lower detection limit: 0.05mg/kg (S) , 0.1mg/kg (N)
- Measurable sample: Solid, liquid, gas (optional for nitrogen digester and sampler)
- PMT high voltage range: DC400V~900V
- Standard curve correlation coefficient: ≥ 0.999
- Temperature control range and accuracy: RT~1300℃, $\pm 1^{\circ}\text{C}$
- Measurement accuracy, repeatability error:

Range	Repeatability error
$0.1 < x \leq 1.0 \text{ mg/kg}$	$\pm 0.1 \text{ mg/kg}$
$1 < x \leq 10 \text{ mg/kg}$	$C_v \leq 6\%$
$10 < x \leq 100 \text{ mg/kg}$	$C_v \leq 2\%$
$\geq 100 \text{ mg/kg}$	$C_v \leq 1\%$



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Feartures:

- Windows Operating platform, computer control analysis, data processing and other processes, display the working status of the whole process; test parameters and results can be saved or printed; historical data query and graphic playback can be realized, which is convenient for comparison and analysis.
- One needle injection, simultaneous detection of sulfur and nitrogen, the two test results can be tested at the same time, and the analysis speed is fast (2-3min/sample)
- The core detector of the instrument is manufactured with patented technology of preventing light leakage and air leakage, which makes the instrument have the advantages of high sensitivity, low noise, wide linear range, and strong anti-interference ability.
- Core components: membrane dryer, filter, xenon lamp, photomultiplier tube, injection needle, filter membrane and other main accessories are original parts imported from the United States, Japan, and Europe to ensure the quality of the instrument and the accuracy of analysis results
- Imported xenon lamp is used as the ultraviolet pulse light source, the light intensity is stable, the attenuation is slow, and the service life is up to 5 years.
- The instrument adopts international popular circuits and imported components, which reduces instrument noise and improves detection sensitivity
- High voltage can be adjusted arbitrarily, standard sample calibration adopts single-point calibration, which is convenient, fast and accurate.
- Using an electronic ozone generator, the amount of ozone generated can be adjusted, which can meet the detection of large-content nitrogen.
- Gas pipeline back pressure detection, the gas pipeline is cut off or the gas source is not turned on, the instrument can give an alarm to ensure that the detector, pipeline, etc. are not contaminated.
- Imported high-quality heating wire is used, and the life of the cracking furnace is longer.
- With delayed shutdown function, the experiment is over, and the time can be set to automatically shut down, allowing the cracking furnace to cool naturally, and automatically shut down when the time comes, which overcomes the shortcomings of manual waiting.
- Instrument calibration: The instrument is calibrated with standard samples imported from the United States and Japan to ensure the accuracy of the instrument measurement.