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Sindie 2622 M-SERIES
Sulfur Analyzer

Sulfur Analysis with Compliance Flexibility

The Sindie 2622 bench-top analyzer complies with ASTM D2622, D7039 and ISO 20884 methods, enabling complete flexibility in sulfur analysis. No compromises in detection, performance and reliability - the SINDIE 2622 analyzer is the ideal sulfur analytical solution from ultra low sulfur diesel and gasoline to heavy fuel oil and crudes. One analyzer – three compliance solutions.

Application Areas:

- Total sulfur analysis from ultra low sulfur fuels to crudes.

- For use in refinery labs, pipeline terminals, additive plants and inspection laboratories.

- Complies with ASTM D2622, D7039 and ISO 20884.

Features and Benefits:

- LOD: 0.4 ppm at 300 s.

- Dynamic Range: 0.4 ppm to 10%

- Fits on any bench:
  37 cm (w) x 50 cm (d) x 34 cm (h).

- Plug-it-in and measure: power is only utility.

- Touch Screen user interface.

- User programmable measurement time: 30-900 s.

- Two calibrations covers both gasoline and diesel matrices over full dynamic range:
  - 0.4 – 3000 ppm wt
  - 0.3 – 10% wt

- No conversion gasses, heating elements, quartz tubes or columns.

- 75 W air-cooled excitation tube.

- Robust polyamide window for easy cleaning.

Options:

- LIMS data output software capability.

MWD XRF

Monochromatic Wavelength Dispersive X-Ray Fluorescence (MWD XRF) utilizes state-of-the-art focusing and monochromating optics to increase excitation intensity and dramatically improve signal-to-background over high power traditional WD XRF instruments. This enables significantly improved detection limits and precision and a reduced sensitivity to matrix effects. A monochromatic and focused primary beam excites the sample and secondary characteristic fluorescence x-rays are emitted from the sample. A second monochromating optic selects the sulfur characteristic x-rays and directs these x-rays to the detector. MWD XRF is a direct measurement technique and does not require consumable gasses or sample conversion.
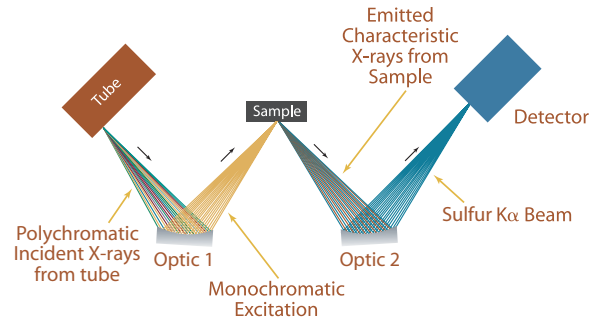
SINDIE-XR Calibration Curve
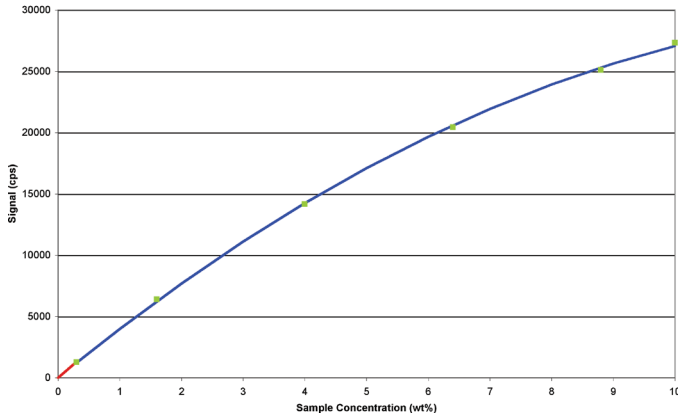
Low Range Calibration
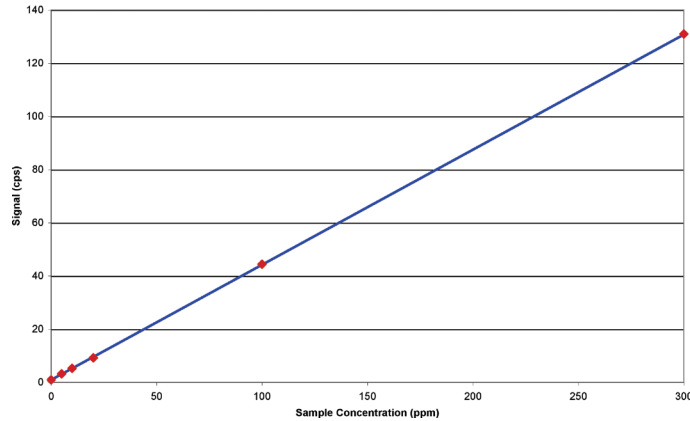
Precision

Typical repeatability (r) and reproducibility (R) values in diesel fuel, at 95% confidence. 300s measurement time.

Sulfur Concentration (ppm)	r	R
4	0.4	1.0
8	0.7	1.2
15	0.9	1.7
100	3	6
500	6	12

Product Specifications

Test Method	ASTM D7039, D2622 and ISO 20884
Dimensions	37 cm (w) x 50 cm (d) x 34 cm (h)
Power	100-120 VAC, 47-63 HZ at 6.0 Amps/200-240 VAC, 47-63 HZ at 6.0 Amps
Sample Cup Volume	10 ml
I/O Ports	Ethernet 10/100 base T, RS232
Ambient Temperature Requirements	5-40° C (40-104° C)
Dynamic Range	0.4 ppm – 10%
Measurement	User selectable: 30-900 s
Calibration	8 calibration curves. Automatic and Manual Calibration functionality.

XOS®

better analysis counts