better analysis counts

Sindie 2622 G3 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:

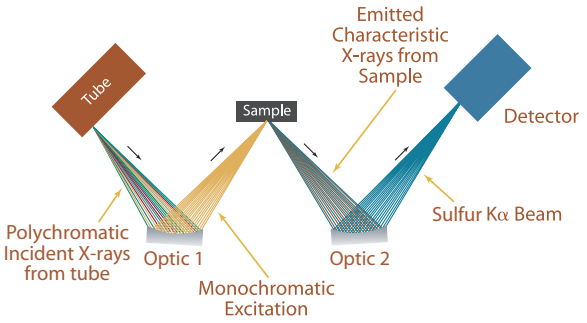
- LOD: 0.15 ppm at 300 s.
- Dynamic Range: 0.15 ppm to 10%
- Fits on any bench:
  37 cm (w) x 50 cm (d) x 34 cm (h).
- Plug-it-in and measure: power is the only utility.
- Touch Screen user interface.
- User programmable measurement time: 30-900 s.
- Two calibrations cover a variety of products over full dynamic range:
  - 0.15 – 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.

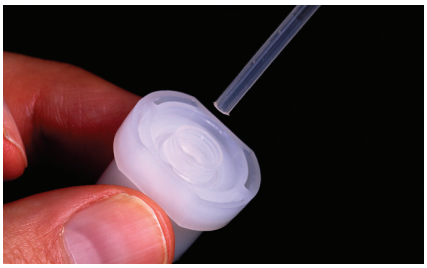
Options:

- 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.





ACCU-CELL Sample Cups

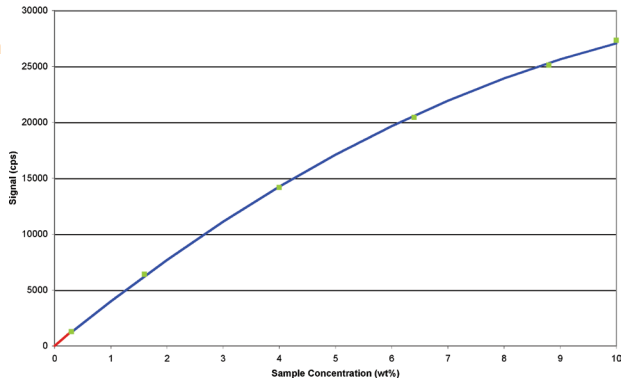
- No assembly of separate film & cup components
- Pre-vented sample cups
- Eliminates sample & cup contamination
- One discharge of 1 ml pipette will fill the cup

Precision

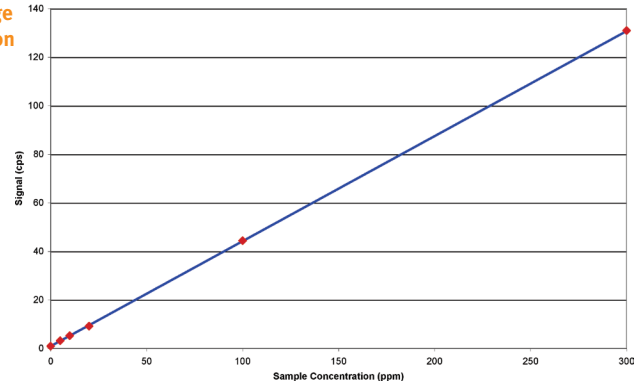
Typical repeatability (r) and reproducibility (R) values in diesel fuel, at 95% confidence. 300 s measurement time.

Sulfur Concentration (ppm)	r	R
2	0.3	0.7
5	0.5	0.8
8	0.6	1.0
15	0.8	1.4
100	2	4
500	5	10

SINDIE-XR Calibration Curve



Low Range Calibration



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	1 ml
I/O Ports	Ethernet 10/100 base T, RS232
Optional Computer Interface	Pentium, 100 MHz, 32 MB RAM/Windows 98 or newer operating system
Ambient Temperature Requirements	5-40° C (40-104° F)
Dynamic Range	Standard: 0.15 ppm – 10% ppm
Measurement	User selectable: 30-900 s
Calibration	8 calibration curves. Automatic and Manual Calibration functionality

XOS®

better analysis counts

15 Tech Valley Drive • East Greenbush, New York 12061, USA • 518.880.1500 • Fax: 518.880.1510
e-mail: info@xos.com • website: www.xos.com