better analysis counts

Portable Sulfur Analysis

Sindie® OTG is a portable sulfur analyzer, delivering reliable and precise results in hydrocarbons from ULSD and gasoline to marine fuels and crudes. Operate in-the-field, on-board marine environments, and in laboratories. Sindie OTG complies with ASTM D7039 and ISO 20884.

Applications

- Total sulfur analysis from ultra low sulfur fuels up to crude
- For refinery labs, pipeline terminals, on-board use, additive plants, testing vans and inspection laboratories

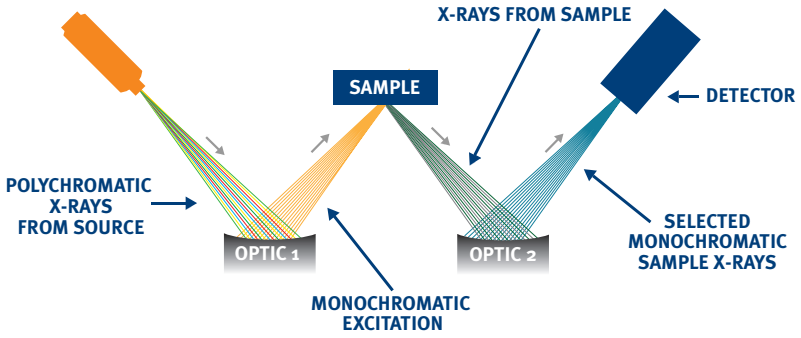
Features and Benefits

- LOD: 0.7 ppm at 900 s
- Dynamic Range: 0.7 ppm - 10 wt%
- Use Accucells for hassle-free sample prep
- Fits on any bench and compatible for use in mobile labs/vans
  - Dimensions: 34cm (w) x 23.5cm (d) x 30cm (h)
  - Weight: 18.5 kg
  - Utility: Standard wall power: 100-240 VAC at 2.2 A
- Extremely low maintenance: no conversion gasses, heating elements, columns, or quartz tubing
- Easy to use
  - Intuitive touch screen
  - Just plug-in and measure
  - Measurement time: 30-900 s
- 20 W air-cooled excitation tube

ASTM D7039 and ISO 20884

TRUSTED PRECISION

Monochromatic Wavelength Dispersive X-ray Fluorescence (MWDXRF®) utilizes state-of-the-art focusing and monochromating optics to increase excitation intensity and dramatically improve signal-to-background over high power traditional WDXRF 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. MWDXRF is a direct measurement technique and does not require consumable gasses or sample conversion.



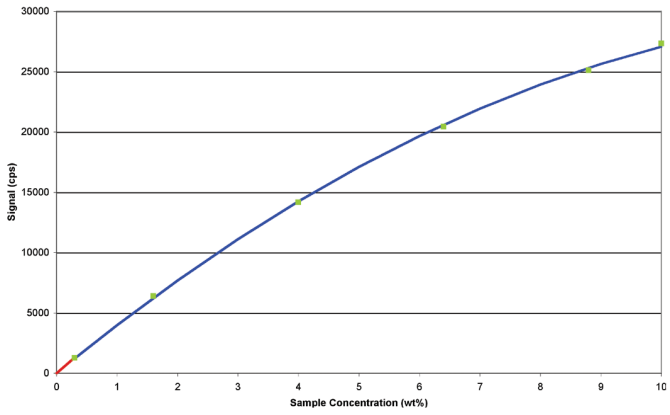
ACCUCELLS

- No assembly of separate film & cup components
- Pre-vented sample cups
- Eliminates sample & cup contamination
- Utilizes XOS Accucell sample cups

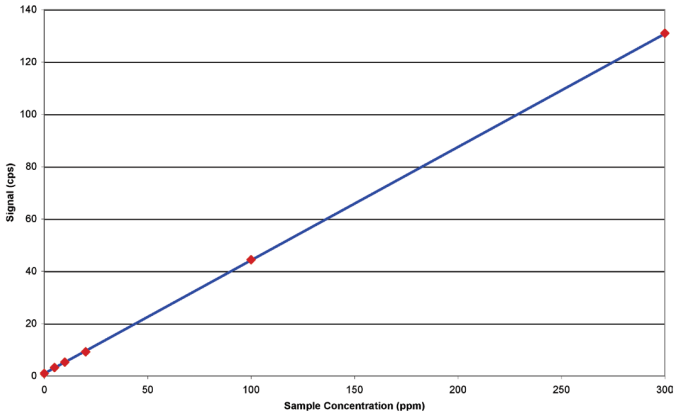
Precision
Typical repeatability (r) and reproducibility (R) values in diesel fuel, at 95% confidence. 900 s measurement time.

Sulfur Concentration (ppm)	r	R
2	0.6	1.2
8	0.9	1.8
15	1.1	2
100	3	6
500	6	12

High Range Calibration



Low Range Calibration



Sindie uses a weighted least squares regression in low range which is extremely linear and easy to set up. Typical correlation (R value) is expected to be on the order of 0.999 or better.

Product Specifications

Model	Sindie OTG (On The Go)
Test Method	ASTM D7039 and ISO 20884
Dimensions	34 cm (w) x 23.5 cm (d) x 30 cm (h)
Power	100-240 VAC at 2.2 Amps
Sample Cup Volume	1 ml
Ambient Temperature Requirements	5-35° C (40-95° F)
Dynamic Range	0.7 ppm to 10 wt%
Measurement	30-900 s
Calibration	8 calibration curves. Automatic and manual calibration functionality`

XOS®
better analysis counts
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