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Sindie OTG

Sulfur Analyzer



Plug-It-In & Measure. Results with One Touch. Unrivaled Precision.

The Sindie OTG is the only PORTABLE sulfur analyzer and provides reliable quality results from ULSD and gasoline to marine fuels and crudes. The analyzer is suitable for operating in-the-field, on-board marine environments and in laboratories. The analyzer uses Monochromatic WD XRF per ASTM D7039 and is compliant with ISO 20884. Analysis on demand, when and where you need it.

Application Areas:

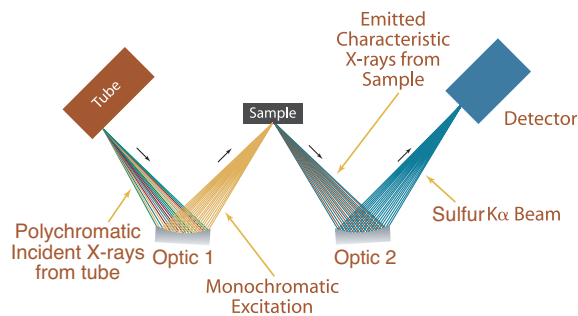
- Total sulfur analysis from ultra low sulfur fuels up to crude.
- For refinery labs, pipeline terminals, on-board use, additive plants, testing vans and inspection laboratories.
- Complies with ASTM D7039 and ISO 20884.

Features and Benefits:

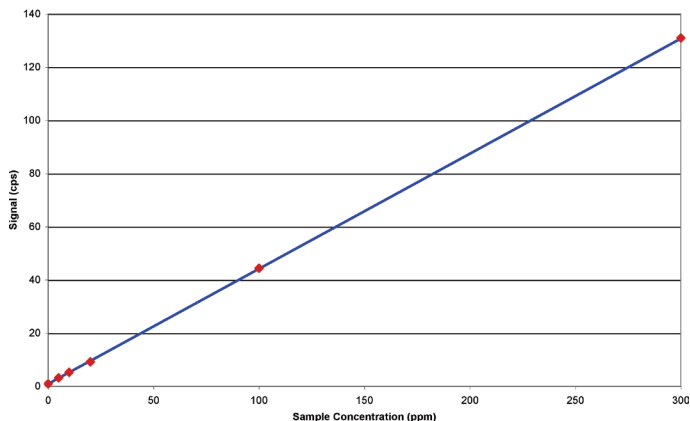
- Fits on any bench and compatible for use in mobile labs/vans.
- Dimensions: 33 cm (h) x 30 cm (w) x 23 cm (d).
- Weight: 18.5 kg.
- Utility: Standard wall power: 100-240 VAC at 2.2 A.
- No need for gasses, no high temp operating conditions.
- LOD: 0.7 ppm at 900s
- Dynamic Range: 0.7 ppm-10% ppm wt.
- User Interface: Touch Screen.
- ACCU-CELL pre-assembled sample cups for enhanced precision, operator ease-of-use and increased productivity.
- User programmable measurement time: 30-900 s.
- One calibration curve will run both diesel and gasoline.
- Extremely low maintenance: No conversion gasses, heating elements, quartz tubes or columns.
- Robust polyimide window for easy cleaning.
- 20 W air-cooled excitation tube.

MWD XRF

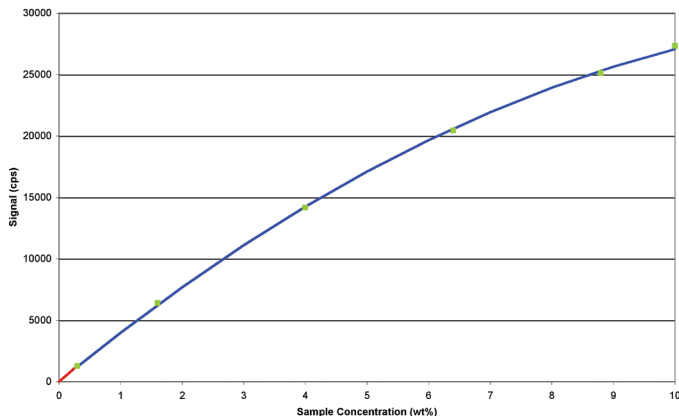
Monochromatic Wavelength Dispersive X-Ray Fluorescence (MWD XRF) utilizes state-of-the-art focusing and monochromating optics to increase excitation intensity and dramatically improve signal-to-background over high power traditional WD XRF instruments. This enables significantly improved detection limits 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.



Low Range Calibration



SINDIE-XR Calibration Curve



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



ACCU-CELL Sample Cups

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

Product Specifications

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
Other Utilities	None
Sample Introductions	Maximum sample cup volume: 1 ml.
Ambient Temperature Requirements	5-35° C (40-95° F)
Dynamic Range	0.7 ppm - 10% ppm wt.
Measurement	30-900 s



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