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Sindie 7039 XR
Sulfur Analyzer

3 Plug-It-In and Measure
Results with One Touch
Unrivaled Precision

From ULSD and gasoline to fuel oil and crude, SINDIE 7039 analyzers provide the ultimate plug-it-in and measure solution — without the need for consumable gasses or the complications of high temperature operations. The introduction of the SINDIE 7039 G3 bench-top analyzer presents a breakthrough in detection performance with the Limit of Detection in diesel and gasoline matrices of 0.15 ppm. (300 s. measurement time). The standard configuration for this Monochromatic WD XRF analyzer quantifies the sulfur concentration from 0.15 ppm up to 3000 ppm. The optional XR package extends the measurement range of the analyzer up to 10 wt. %. (The XR option does not require any hardware changes). MWD XRF (per ASTM D 7039) is a direct measurement technique which does not require sample conversion, consumable gases or high temperature operating conditions.

SINDIE 7039 G3 uses preassembled ACCU-CELL sample cups, designed to keep the sample and the cup free of external contamination and particles. ACCU-CELL cups eliminate the need for the user to put together the various separate film and cup components. The cups are pre-vented so there's no need for the user to punch a pressure relief hole. One standard 5 ml pipette will fill the cup and that's it. Fast, clean and precise.

Contact us to schedule a SINDIE demonstration at you site or for more details visit us at www.xos.com.



APPLICATION AREAS:

- Total sulfur analysis from ultra low sulfur fuels up to crude.
- Designed for refinery labs, pipeline terminals, additive plants, testing vans and inspection laboratories.

FEATURES AND BENEFITS:

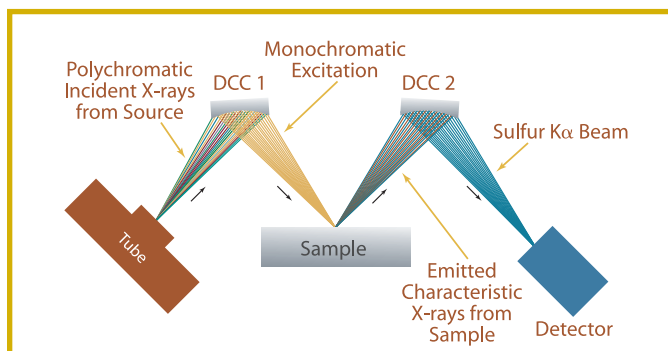
- LOD: 0.15 ppm at 300 s.
- Dynamic Range:

Standard:	0.15 ppm up to 3000 ppm
XR package:	0.15 ppm up to 10%
- Repeatability

	Std. Dev.	Repeatability (95% confidence)
1 ppm	0.08 ppm	0.3 ppm
10 ppm:	0.2 ppm	0.8 ppm
100 ppm:	0.8 ppm	2.5 ppm
500 ppm:	1.7 ppm	6 ppm
- Fits on any bench, in every lab: 14.5" w x 19.5" d x 13.5" h
- Plug-it-in and measure: standard wall power is only utility required.
- User interface: Touch Screen.
- Utilizes the ACCU-CELL pre-assembled sample cups for enhanced precision, operator ease-of-use and productivity.
- User programmable measurement time: 30-300 s.
- One calibration curve for diesel and gasoline matrixes over the full dynamic range
- Extremely low maintenance:
 - No conversion gasses
 - No heating elements
 - No quartz tubes or columns
- Low power air cooled excitation tube.
- Robust polyamide windows enables industrial use. No exposed Be windows.

FIGURE 1

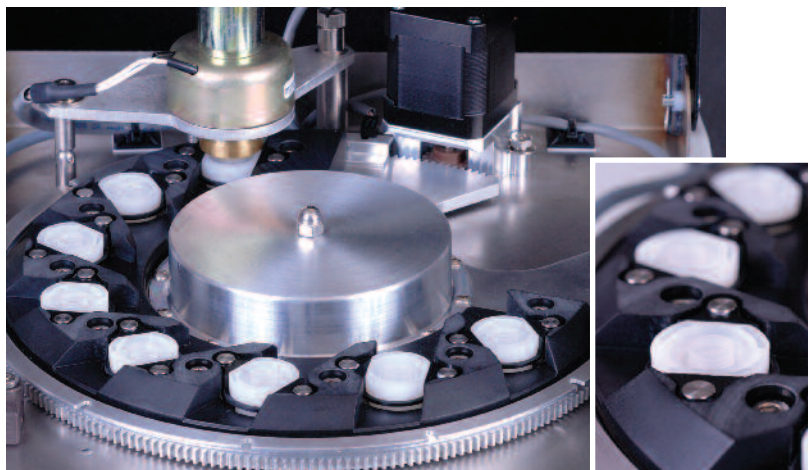
Monochromatic WD XRF per ASTM D 7039



- Monochromatic excitation = extremely low background
- Broad dynamic range from 0.4 ppm wt. up to 10 wt %
- No consumable gasses or sample conversion required

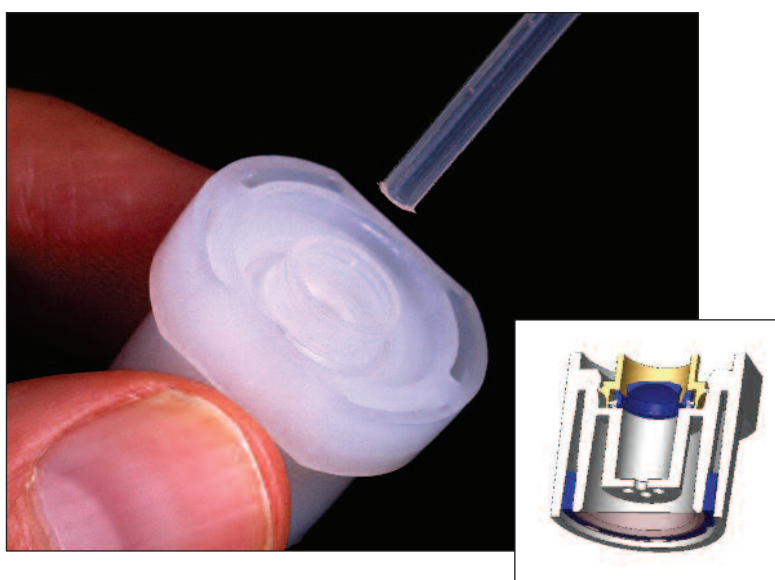
SINDIE Autosampler

- 8 sample capacity
- Increases productivity
- Utilizes XOS Accu-Cell cups



ACCU-Cell Sample Cups

- No assembly of separate film and cup components required
- Sample cups are pre-vented
- Avoid sample & cup contamination
- One discharge of 1 ml pipette will fill the cup



Test Method	In accordance with ASTM Standard Test Method D-7039
Dimensions	13" w x 12" d x 9" h
Power	100-120 VAC, 47-63 Hz at 2.0 Amps 200-240 VAC, 47-63 Hz at 2.0 Amps
Other Utilities	None
Sample Introduction	Maximum sample cup volume: 2ml.
I/O Ports	Ethernet 10/100 base T RS 232
Ambient Temperature Requirements	5–40°C (40–104°F)
Dynamic Range	0.15 ppm–10% (wt.)
Measurement Time	30-900 seconds (user selectable)



better analysis counts

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