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Автоматический анализатор CNSolution 9310 OI Analytical

The CNSolution™ 9310 Online Cyanide Analyzer improves accuracy of cyanide detection in precious metal leaching solutions by offering a dynamic continuous-monitoring approach, significantly reducing operating costs.

The OI Analytical CNSolution™ 9310 Online Cyanide Analyzer is designed to measure available cyanide in precious metal leaching solutions by USEPA Method OIA-1677 and ASTM D 6888-09. The gas-diffusion amperometry technique in these methods has been demonstrated to be free of interferences from copper and metallic sulfides that impair the accuracy of traditional techniques such as titration.

CNSolution 9310 Online Cyanide Analyzers enable gold and silver mills to accurately measure and control cyanide levels at key points in the cyanidation process. Continuous online monitoring provides a dynamic view of the process rather than periodic snapshots obtained by grab sampling and laboratory analysis. Improved accuracy facilitates tighter control of cyanide usage and can significantly reduce a plant's operating costs.

CNSolution™ 9310 Features:

Provides highly accurate measurement of available cyanide in precious metal leaching solutions

Uses well proven gas-diffusion amperometry technique in Methods USEPA OIA-1677 and ASTM D 6888-09

Analyzer measurement ranges support use throughout the cyanidation process

Detector response for each sample is displayed in real-time as a peak on the touch-screen display

Continuous monitoring improves accuracy allowing more control of cyanide usage



Operating Principle

FIA by gas diffusion amperometry

Measurement Technique

Amperometric detection – silver electrode

Measurement Ranges (ppm)

0.2 to 50 / 2.0 to 500 / 20 to 2000 ppm CN

Reference Methods	USEPA OIA-1677 / ASTM D 6888-09 (Available CN)
Calibration	2 point calibration
Measurement Accuracy	+ 5% at 50-ppm
Sample Introduction	Continuous on-line fill-and-spill sampling system
Sampling Interval	User programmable
Analysis Time	<3 minutes
Operating Environment	5 – 45 °C, up to 90% humidity (non-condensing)
Operator Interface	Windows® CE-based, Color touch-screen display
Reagents Required	Water, NaOH, HCl, CN ⁻ calibration standards
Power Requirements	24V _{DC}
Output Relays	2 (system alarm, sample alarm)
Analog Output	2 4-20mA (user-configurable concentration)
Data Export	To PC via Ethernet, or using USB memory stick
Instrument Enclosure	NEMA 4X / IEC Class IP-56
External Dimensions	48.3 cm H x 31.1 cm W x 31.1 cm D (19 " H x 12.25 " W x 12.25 " D)
Weight	11 kg (24 lbs.)

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