

SAFE GUARD™ II

Trace Metals Analyzer

with Nano-Band™ Technology

TraceDetect introduces SafeGuard II, ensuring your water cleanliness through automated trace metal analysis.

SafeGuard II offers flexible, robust monitoring of a variety of samples. With just a push of a button after loading your sample, SafeGuard II's fully automated operation returns your contaminant levels in an easy-to-read display. Generating data and compliance reports for routine facility operations support is simple and straightforward.

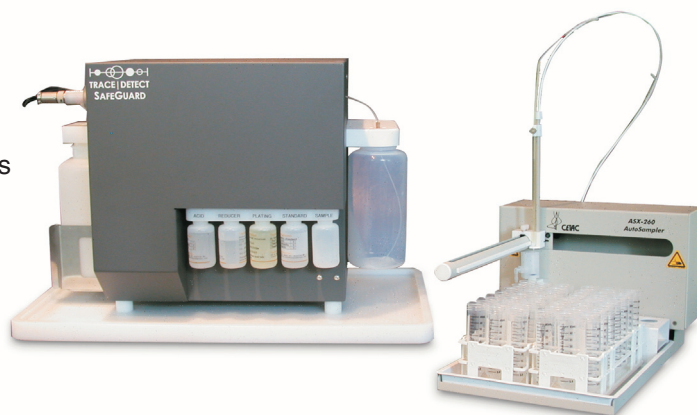
With its compact design, SafeGuard II is an application-specific, independent monitoring station located at-line or in your own on-site quality assurance lab, wherever it may be needed. SafeGuard II's comprehensive easy-to-use interface offers modes for advanced users, as well as routine maintenance. The software is flexible and powerful enough to support ongoing development of new water contaminant treatment programs, yet simple and direct enough to spot-check routine grab sample results. Save precious time and money by eliminating the need to send samples to an outside lab.

SafeGuard II Features

- Fully automated operation with Chemist in the Box™ technology
 - Eliminates operator variability to insure accuracy to 1 ppb
 - Measurement time less than 30 minutes
 - Correlation with ICP-MS (+/- 10% typical)
 - Configurable for As, Cu, Pb, Zn, Cd, and Hg
 - Easily accessible grab sample port
 - Data logging records results, allows report generation and results archiving

SafeGuard II Application Examples

- Ground Water
 - Determine total As concentration in source waters
- Drinking Water
 - Stay in compliance with 10 ppb limit
- Wastewater & Effluent Analysis
 - Understand & control your wastewater emissions
 - Eliminate costly fines
- Arsenic Removal Media
 - Monitor arsenic removal media to ensure optimal effectiveness & lifetime
- Batch sampling
 - Increase throughput with batch sampling on integrated autosampler



Autosampler optional



180 North Canal Street Seattle, WA 98103
206.523.2009 www.tracedetect.com

SAFEGUARD II Specifications

Performance

Measurement Range	1 - 100 ppb
Measurement Accuracy	1ppb or $\pm 20\%$, whichever is larger
Measurement Time	Less than 30 minutes
Trace Metals Supported	Arsenic, Lead, Copper, Cadmium, Zinc, and Mercury
Sample Requirements	Temperature: 5 °C to 45°C, room temp. is ideal Pressure: 5 - 75 psi pH Range: 1.0 - 8.0 Minimum sample size: 15 mL Samples which contain solids must be prefiltered
Sampling Scheme	Side port accepts standard screw-on sample Configurable to perform automatic 50:1 dilutions with no additional hardware

System

User Interface	Windows-based SafeGuard software displays easy-to-read results
Electrical	100-240V, 50/60 Hz, 1.5 A (Three grounded sources required)
Operating Conditions	Temperature: 20°C +/- 10°C Humidity: 5 - 95%, non-condensing
Other Requirements	Nitrogen Gas: 25-50 psi Deionized Water: 18 MOhm (these requirements are configuration-dependent)
Dimensions	24" W x 15.5" H x 13.5" D

Options

Autosampler	CETAC ASX-260 Dual rack, 21 vials/rack 50 mL vials (sample size can be much less) CETAC service support
Dimensions	13" W x 24" H x 20" D
Upon request	Additional CETAC autosamplers available (ASX-130, ASX-520) Additional CETAC-compatible racks available Additional CETAC-compatible vials available

ASV results show excellent correlation with ICP-MS

