

# SAFEGUARD™ Lead

## Automated Lead Analyzer

**SafeGuard™ is an automated lead analyzer for monitoring exposure to lead contamination from lead pipes, solder and brass fittings. It is designed to be used independently or in conjunction with MetalGuard™ Lead Alert!™ when this warns of an increase in contamination risk.**

The SafeGuard™ analyzer provides rapid, reliable and accurate analysis of lead to inform utilities and consumers of their exposure to lead contamination. SafeGuard's automated operation returns data on total lead contamination levels with just a push of a button after loading a sample.

### SafeGuard™ Applications

The SafeGuard analyzer provides high frequency data on lead levels with sensitivity down to 1 ppb. The benefits of using this novel analyzer include:

- Rapid analysis of the safety of drinking water in homes, schools, day-cares exposed to the risk of lead contamination.
- Delivery of results in minutes to identify contamination sites far faster than laboratory based analysis.
- Accurate measurement of total lead, a feature not available with hand-held analyzers.
- Rapid delivery of results ensures quarantined sites can be released more quickly after lead remediation.

### SafeGuard™ Features

#### Automated operation

- Eliminates operator variability
- Accuracy to 1 ppb or  $\pm 15\%$ , whichever is higher
- Measurement time of 30 minutes
- Correlation with standard method ( $\pm 15\%$ )
- Multiple stream including auto-sampler for 94 samples

#### Comprehensive data acquisition

- Data logging records results, allows report generation and results archiving

#### Low operational costs

- Employs a self-regeneration sensor and is auto-calibrating



SafeGuard™ Analyzer with optional autosampler

# SAFEGUARD™ Specifications

## PERFORMANCE

Measurement Range	Lead 1–1,000 ppb
Measurement Accuracy	1 ppb or ± 15%, whichever is higher
Measurement Time	30 minutes typical, up to 2 hours with sample preparation
Sample Requirements	Temperature: 5 - 40°C pH range: 2 - 12 for most trace metals, Cr(VI) 4 - 8 Minimum sample size: 15mL

## SYSTEM

User Interface	Windows-based software displays easy-to-read results
Electrical	100-240VAC, 50/60Hz 1.5A (Three grounded sources required)
Operating Conditions	Temperature: 5 - 40°C Humidity: 5 - 95%, non-condensing
Other Requirements	Nitrogen Gas: 25 - 50 psi 300 cubic ft. gas cylinder provides 6 months operation (1 test/hr) Deionized water: 18MOhm These requirements are configuration-dependent
Dimensions	24"W x 15.5"H, 13.5"D

## OPTIONS

Mineralizer	Standard set-up measures dissolved lead. For particulate and total lead readings the mineralizer option is required.
Autosampler	CETAC™ ASX-260 Dual rack, up to 42 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™ compatible autosamplers, racks and vials

\* Note- specifications are subject to change without notification.