

SafeGuard™ Explorer™ Arsenic

Portable Arsenic Analyzer

SafeGuard™ Explorer™ is a lightweight and portable arsenic analyzer offering accurate and reliable detection of arsenic anytime and anywhere.

Small water systems, research centers, remediation system vendors and consulting engineers looking for economical and accurate field analysis of arsenic will benefit by using the SafeGuard™ Explorer™ portable analyzer from Aqua Metrology Systems. The battery powered analyzer is housed in a rugged transport case to facilitate the detection of arsenic levels anywhere and anytime. SafeGuard Explorer performs rapid, repeatable and reliable analysis of arsenic down to 1 ppb in less than 15 minutes; lab analysis is not required. The system does not produce a hazardous material requiring handling or disposal.

SafeGuard™ Explorer™ Benefits

- Obtain operational data on influent and effluent arsenic levels
- Monitor critical process steps to aid in arsenic remediation process control and optimization
- Quickly detect declining effectiveness of arsenic remediation process and remain in regulatory compliance

SafeGuard™ Explorer™ Features

- Portable
- Simple operation
- Robust design
- Reliable and repeatable results
- Highly sensitive, accuracy down to 1 ppb Total As
- Rapid measurement (< 15 minutes)
- Long lasting sensor
- Non-hazardous waste and reagents
- Long reagent life, ambient controlled storage not required
- Battery powered, rugged transport case
- Low capital and operating costs



SafeGuard™ Explorer™ Arsenic Specifications

PERFORMANCE

Measurement Range	1 - 10,000 ppb for As(III), As(V) and Total As
Measurement Accuracy	1 ppb or $\pm 15\%$, whichever is higher for As(III), As(V) and Total As
Measurement Time	< 15 minutes
Sample Requirements	Temperature: 0 - 50°C pH range: 2 - 12

SYSTEM

Power Source	108 - 132 VAC 60 Hz to wall transformer
Controller	PC/Laptop (Note: computer is not included with system, but it is optional)
Analytical Method	Anodic Stripping Voltammetry (ASV)
Operating Ranges	Intended temperature range of operation: 0 - 50°C Intended humidity range of operation: 20 - 95% relative humidity
Operating System Requirements	Windows 10
Data File Format	Export to Excel, Matlab
Briefcase Dimensions	20" H x 14" W x 5" D
Briefcase Weight	7 lbs, not including laptop

*Note- specifications are subject to change without notification.