



KETOS Shield™

SOLUTION OVERVIEW

REAL-TIME WATER QUALITY TESTING MADE EASY - ALL FROM A SINGLE SYSTEM

KETOS Shield is a smart water management solution for understanding what's in our water. A water quality monitoring system that provides real-time insights on over **20+ parameters** including heavy metals – all from a single IoT (internet-aware) modular system.

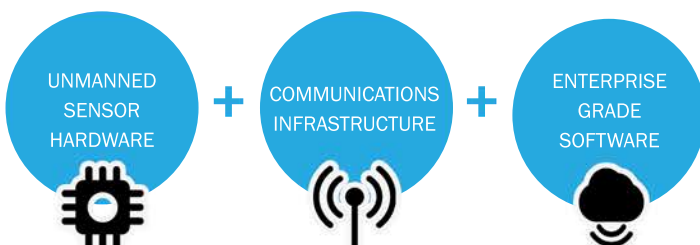
Coupled with an enterprise-grade cloud based software analytics platform, Shield is completely autonomous and eliminates the need for static water testing, constant cleaning or manual calibration.

Ideal for high-frequency water quality sampling environments, Shield is trusted for a number of industry applications such as source water monitoring (ground/surface), industrial process water, reservoirs, produced water from fracking and even drinking water quality.

ZERO CAPEX SUBSCRIPTION SERVICE MODEL

The ease of installation with no CapEx investments, no customer-driven maintenance and comprehensive warranty increases adoption. Shield is easily configured to communicate to the cloud using a variety of industry-standard communication protocols with the flexibility of the platform to integrate decades of static customer data for a single unified view of operations.

ACTIONABLE INSIGHTS & PREDICTIVE INTELLIGENCE



INTELLIGENCE BEYOND WATER SAMPLING

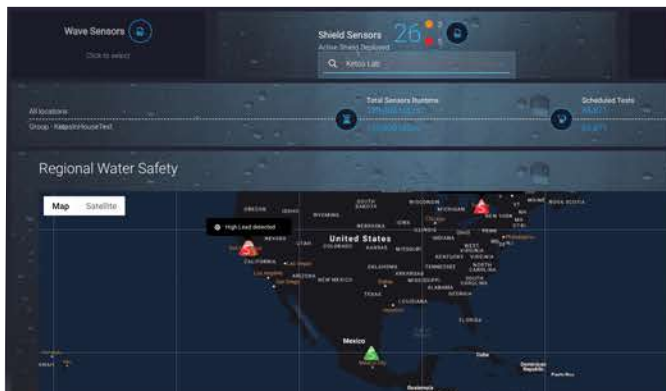
The Shield solution provides operators with real-time alerts, EPA or custom threshold based diagnostics, custom reports, historical trends and mission-critical actionable insights by continuously analyzing water data in conjunction with advanced machine learning. This not only provides an early warning system for quality issues, but through predictive modeling can also optimize process control such as chemical feed, groundwater contamination and water reuse.

The ability to view multiple deployments as a centralized operational interface provides significant value as a location-mapped smart grid with secure access for different types of users.

Contact us for more information
today at sales@ketos.co

OVER 20+ WATER QUALITY PARAMETERS TRACKED

Alkalinity	Lead
Arsenic	Manganese
Boron	Mercury
Cadmium	Nitrates
Chlorine	Oxidation Reduction Potential
Chromium	pH
Conductivity	Phosphorus
Copper	Salinity
Dissolved Oxygen	Silica
Hardness	Total Dissolved Solids
Iron	Temperature



Live Data With User Triggered Thresholds

SOLUTION BENEFITS

- ☒ Eliminate the need for manual water quality testing
- ☒ Early warning system in real-time to enable users to measure, manage and monetize water as a resource
- ☒ Understanding groundwater contamination through active well-water monitoring
- ☒ Enabling operators to optimize chemical feed costs and manage water reuse efficiently
- ☒ Reduce costs associated with pipe replacement through proactive learning of corrosion
- ☒ Removing the need for additional 3rd party software for data management or additional integrator for system maintenance and all associated costs.
- ☒ Lab-precision accuracy with operating range extending to very low sensitivities
- ☒ EPA-compliant techniques with patented and proprietary commercialization features
- ☒ Single modular system - eliminates the need for multiple analyzers, manual processing for analytics and 3rd party modeling for predictions
- ☒ Automated cloud based custom reporting (no manual compliance monitoring)
- ☒ Comprehensive - sensing for 20+ water quality parameters including heavy metals, inorganics and several environmental and water health parameters
- ☒ Remote sensing of system health for reliable operations
- ☒ Advanced predictive analytics with artificial intelligence and machine learning algorithms for a variety of factors that affect water composition or quality.
- ☒ Real-time data visualization with GPS location data for every installation allowing smart grid mapping of all deployments
- ☒ Easy installation - suitable for indoor and outdoor (NSF certifications)
- ☒ Communication over Wi-Fi / Cellular / Ethernet as per client requirements

SUITABLE FOR A NUMBER OF DIFFERENT INDUSTRY APPLICATIONS



Agriculture



Municipal



Industrial

FEATURES OF KETOS SHIELD



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