Samsara for Water & Wastewater

SOLUTION OVERVIEW

SAMSARA FACTS

10,000+ customers worldwide

200,000 new devices added annually

Offices in San Francisco, San Jose, Atlanta, and London
A Complete Platform for Connected Water Operations
Samsara offers a complete, easy-to-use platform to improve efficiency, safety, and sustainability across operations.

**GAIN COMPLETE VISIBILITY**
Easily connect tanks, pumps, wells, lift stations, or existing SCADA systems and start using real-time data across your organization.

**DELIVER OUTSTANDING SERVICE**
Monitor and alert on level, pressure, flow, vibration, and temperature to identify issues, prevent downtime, and more effectively schedule maintenance.

**EMPOWER WATER OPERATORS**
Support operators with mobile access to monitoring dashboards, alert notifications, and the ability to control and manage setpoints remotely.

Learn more at: SAMSARA.COM/INDUSTRIAL/WATER
Remote monitoring and control for water distribution and treatment.

Samsara is an Industrial IoT company that provides water companies with end-to-end data visibility, analytics, and control from an industrial gateway with built-in LTE connectivity, wireless vibration sensors, and the Samsara cloud dashboard—all in one integrated, easy-to-use, affordable platform.

Customers trust Samsara’s technology to drive business outcomes across remote sites and in primary operating facilities: to optimize performance, drive efficiency, prevent downtime, save time and ensure safety for site workers, and to deliver superior service to their customers.
The City of Chowchilla leverages Samsara to improve customer service, efficiency, and visibility across their municipal water operations.

- **Real-time visibility** into tank level, pump status, chlorine residual, treatment plant flow, well pressure and more allows Chowchilla to monitor operations for safety, reliability, and efficiency.

- **Operators are empowered** with mobile dashboards, alerts, and control so that pumps can be turned on or off remotely and residents consistently have access to safe water.

- **Ease of use and setup** made it possible for Chowchilla to be operational with a cost-effective SCADA system in a matter of days.
With Samsara, we’re able to see real-time pressure in the system, whether the well is on or not, vibration issues, and we’re able to react before we get hundreds of calls”

JASON ROGERS
Director of Public Works
Combining Hardware, Software, and Cloud in a Complete Platform

Industrial Gateway
Includes pre-provisioned LTE cellular service that brings your remote site data directly to the cloud, local data storage, local control program execution, and is fully interoperable

Cloud Dashboards
Simple and intuitive dashboards to visualize operational data in real-time. Drag-and-drop tools make it easy for anyone to build graphical or metric dashboards
HARDWARE

Seamless Integration, Easy to Deploy

IG21 Industrial Gateway

Centralized data collection, local control, secure communication, and built-in LTE cellular service

Connect via integrated analog/digital I/O or through existing PLCs and control systems (Modbus TCP/RTU, OPC-UA, EtherNet/IP, MQTT)
PM11
Power Monitor

Wired power monitoring sensor to analyze consumption and efficiency for power-intensive equipment.

Captures fine grained single-phase and three-phase power usage with real-time visibility from cloud dashboards.

HM11
Machine Health Monitor

Wireless, real-time vibration and surface temperature sensors for critical industrial equipment

Waterproof, ruggedized design for hazardous environments. Mounts directly onto machines with zero-configuration connectivity to the gateway.
SOFTWARE

Feature Highlights

MONITORING
Gain remote, real-time visibility into operational data like pressures, flows, and levels to reduce on-site visits

MAPS & METADATA
View assets in interactive maps and add customizable asset data like model number, installation date, and more

OPEN API
Collect data directly via API in real-time or automatically send operational data to enterprise apps to improve back-office efficiency

ANALYSIS
Identify the root cause and quickly resolve issues by comparing data across assets and sites over time

REPORTS
Simplify compliance reporting with instant access to downloadable reports on historical data

MOBILE FORMS
Replace paper-based logs and data collection by providing operators with mobile forms that automatically sync with the dashboard

FORMULAS
Drive continuous improvement efforts by calculating and visualizing key performance indicators (KPIs) in real-time

ALERTS
Minimize downtime with easy to configure alert notifications for emails, texts, or phone calls

CONTROL
Enable operators to respond to leaks, drops in pressure, and other issues instantly with remote control of setpoints and on/off switches
Improve efficiency and customer service with a constant, real-time view on the status of equipment spread across remote water sites.

➤ Real-time view of tank levels at any site
➤ Easily create custom alerts to prevent pump outages
➤ Monitor and control pressure and flow across multiple pumps
“Working with Samsara has been a pleasure. Our ability to pull data from hundreds of locations in real-time has given us the opportunity to see overall plant efficiencies in ways we could have only dreamed about in the past.”

COLBY SNEED
Director of Operations
San Jose Water Company