Samsara for Water & Wastewater

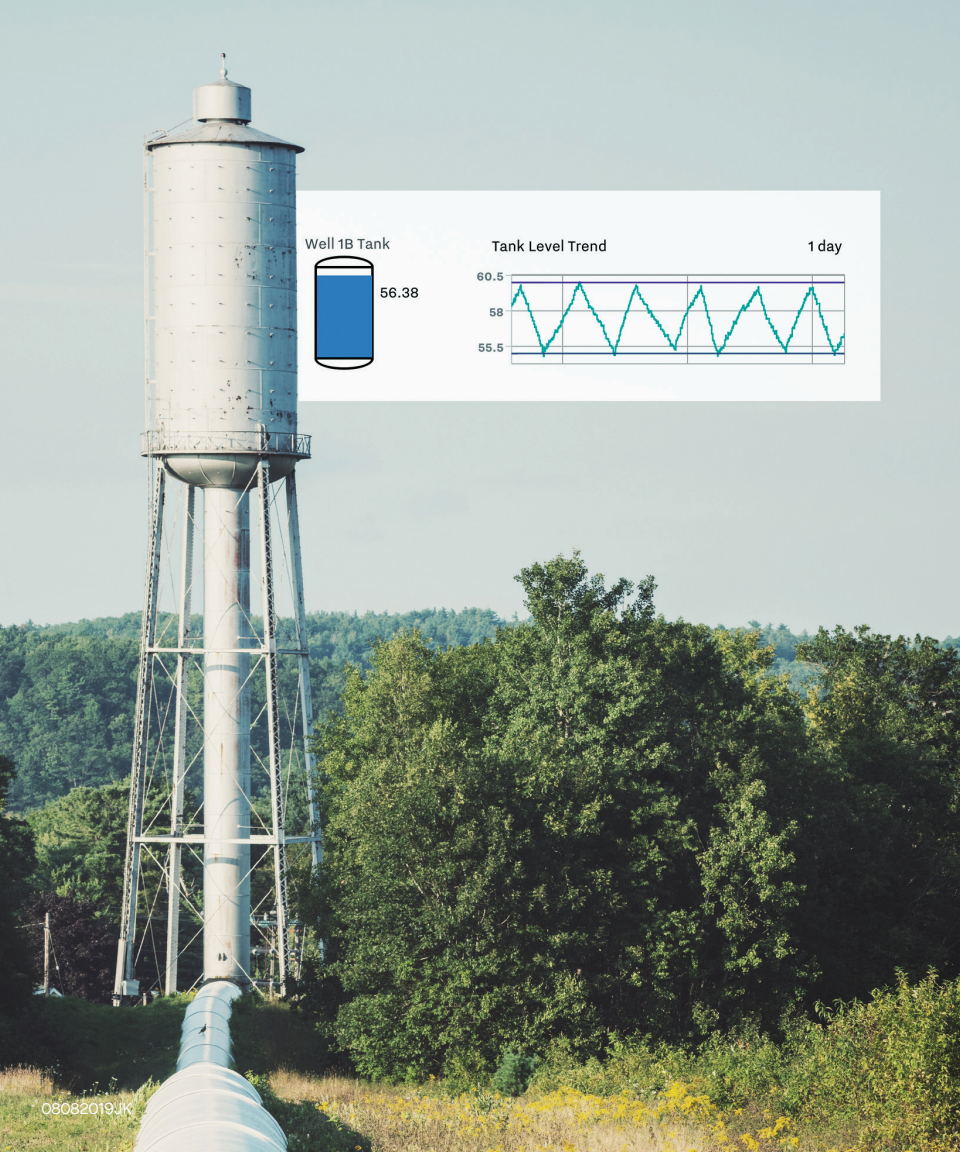
SOLUTION OVERVIEW

SAMSARA FACTS

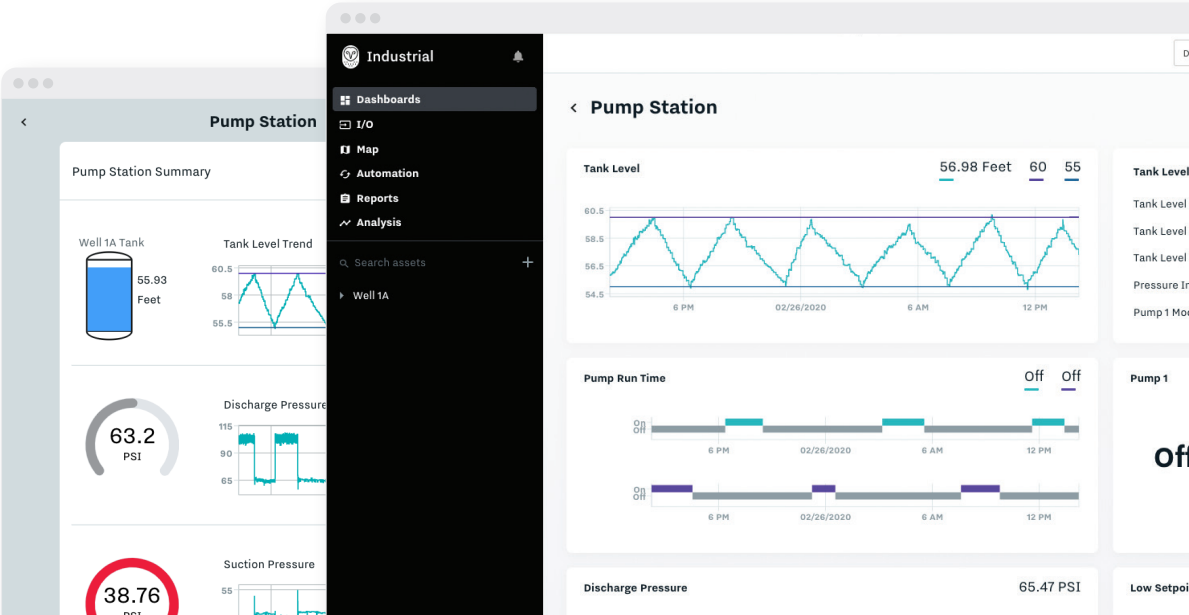
10,000+ customers worldwide

200,000 new devices added annually

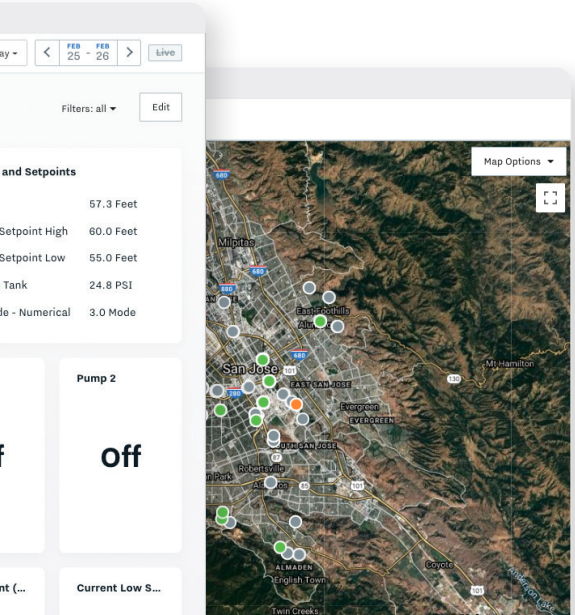
Offices in San Francisco, San Jose, Atlanta, and London



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

SAMSARA FOR WATER & WASTEWATER

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.

CASE STUDY

City of Chowchilla

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

Industrial
Dashboards
I/O
Map
Automation
Reports
Analysis
Search assets
Well 1A
Wellsite Water
100%
Day
Pump Station Summary
Pump #1
Off
Pump #1 Trend
1 day
On
Off
9 PM
02/26/2020
3 PM
Pump #2
Off
Pump #2 Trend
1 day
Well 1A Tank
55.73
Feet
Tank Level Trend
1 day
60.5
58
55.5
63.2
PSI
Discharge Pressure
1 day
115
90
65
Pump 1 Mode AUTO Mode
Pump 2 Mode AUTO Mode
Pump 1 Mode
1 day
AUTO
02/25/2020
02/26/2020
6 AM
3 PM

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)

SOFTWARE

Feature Highlights

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

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

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

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

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

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

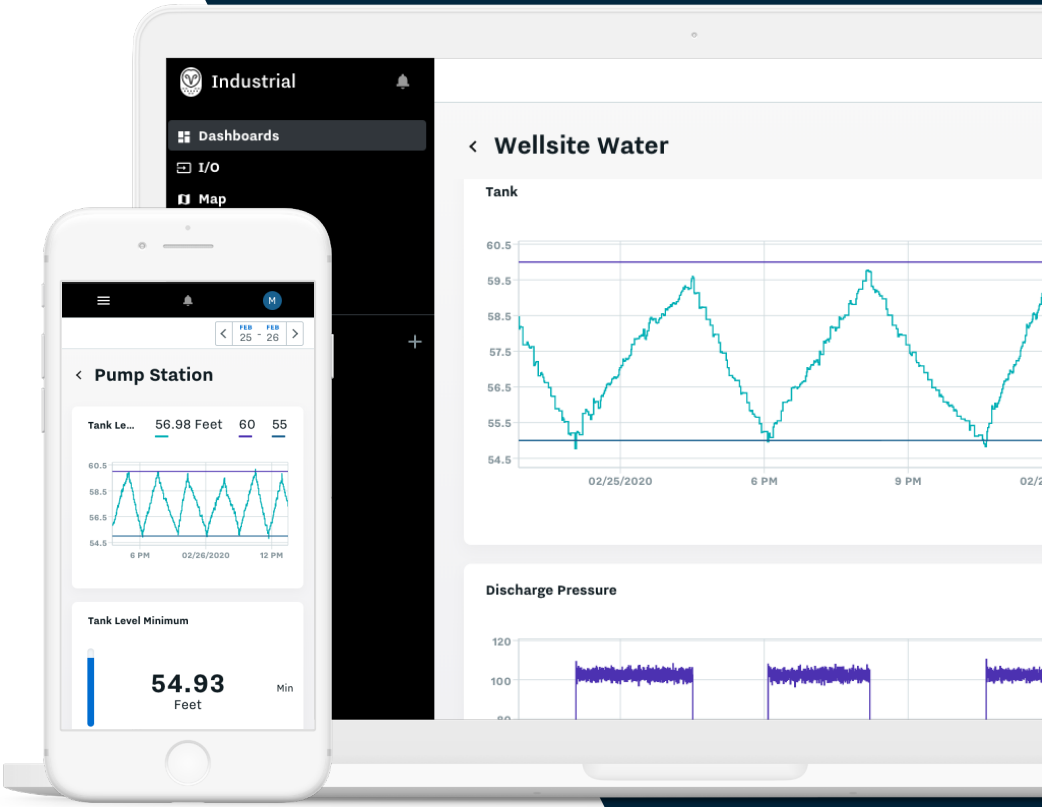
OPEN API
Collect data directly via API in real-time or automatically send operational data to enterprise apps to improve back-office efficiency

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

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



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“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.”

San Jose Water Company

COLBY SNEED

Director of Operations

samsara

samsara.com/industrial/water