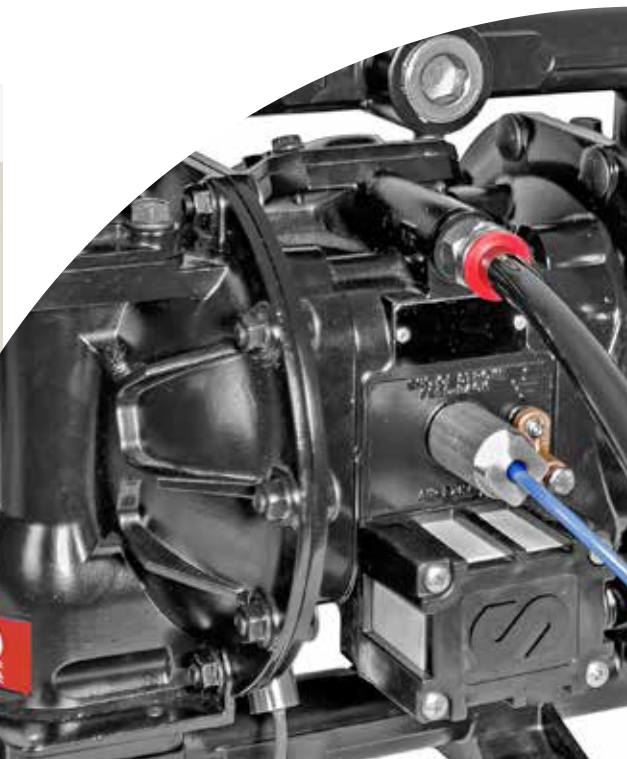# AIRTALDE

Upump

The Smart Pump Controller

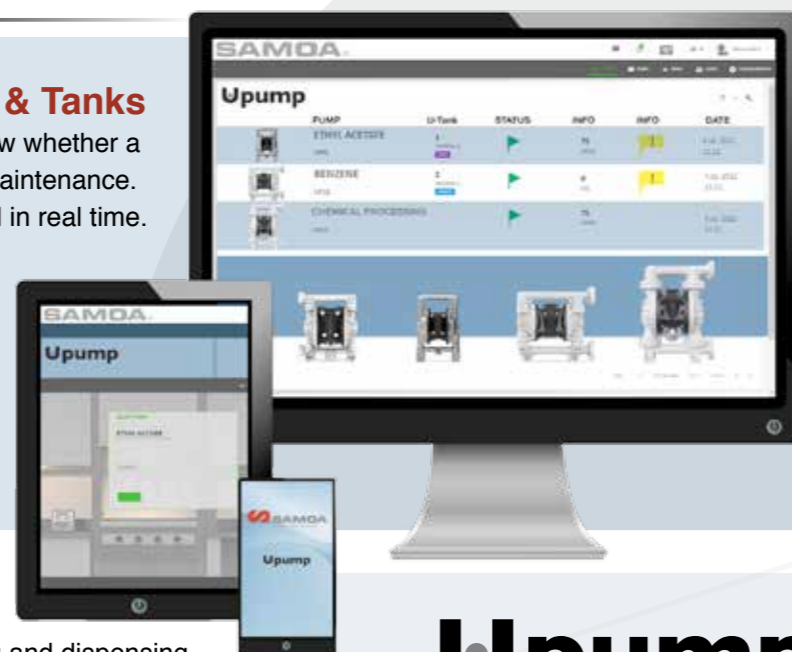**Reduce Waste, Increase Efficiency and Boost Productivity**

Wi Fi

What is U·pump?

U·pump is a Pump monitoring system that allows pump control and performance track to prevent failures and increase operational efficiency.

Real-time Monitoring of Pumps & Tanks

► **Status of the pump.** The system would show whether a pump is OK, failing or needs some kind of maintenance.
► **Tank level.** The system shows the tank level in real time.
► **Pump speed.** It displays the pump speed (in cycles per minute) and controls the maximum speed allowed.
► **Cycle count.** To identify the life of the pump and set predictive maintenance alerts.
► **Air working pressure.** The system is able to show the working pressure in real time.

Pump Control

The pump can be remotely controlled through the system, capable of programming batching and dispensing operations so that operators only need to select the task to start.

Failure Detection with emergency stop

The sensorized pump detects leakage and dry running so that the system can automatically stop the pump to avoid damage or undesired outcomes in the production process

Warnings & Alerts

Once the pump detects a failure, the system sends an alert identifying the source of the problem. U·pump can also be configured to send predictive maintenance alerts at a certain cycle count of a pump.

Historical Data

Historical data of maintenances, pump events, and pump speed is available in the U·pump software to check and download in excel format.
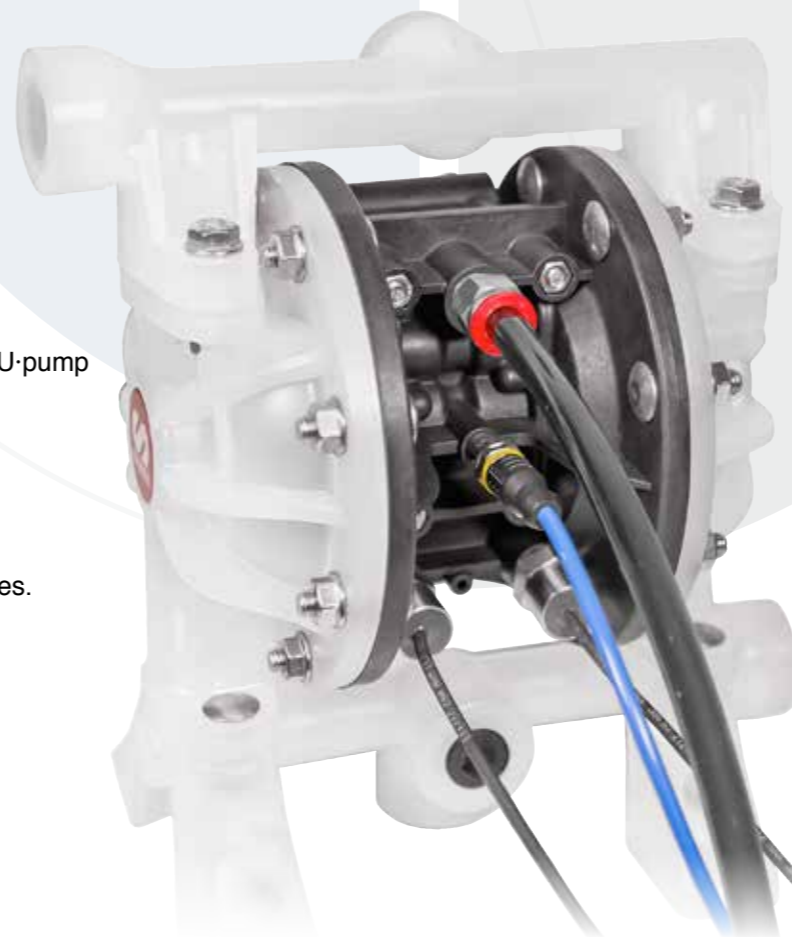
Integration

U·pump has an API to integrate with 3rd party production softwares.

Remote access

U·pump is a web based software that is compatible with PC, tablet, and smartphones.

Upump

Why U·pump?

Efficiency and Reliability in your production processes

Maximize pump performance
Tracking the pump performance allows you to increase the efficiency in your manufacturing processes.

Reduce mistakes and unnecessary work
Pre-set and automate batching and dispensing transactions reduces operator's mistakes and time.

Reduce risk of unexpected pump failures

Predictive maintenance alerts and failure detection reduces the possibility of leakage or dry-running potentially resulting in:

► Expensive fluid waste and consequent clean up
► Production process downtime associated cost
► Pump maintenance
► Pump repair and replacement costs in the worst case scenario

Remote tracking & control of your pumps

Remote access increases production efficiency and reliability:

► No failures in the production line without knowledge of the operators, avoiding fluid and time waste during the production process.
► Operational time saving as operators do not need to walk around production lines to check and control.

Integrate with 3rd party's production software through API

Eases the process of tracking and controlling all the elements of a production process saving operator time.
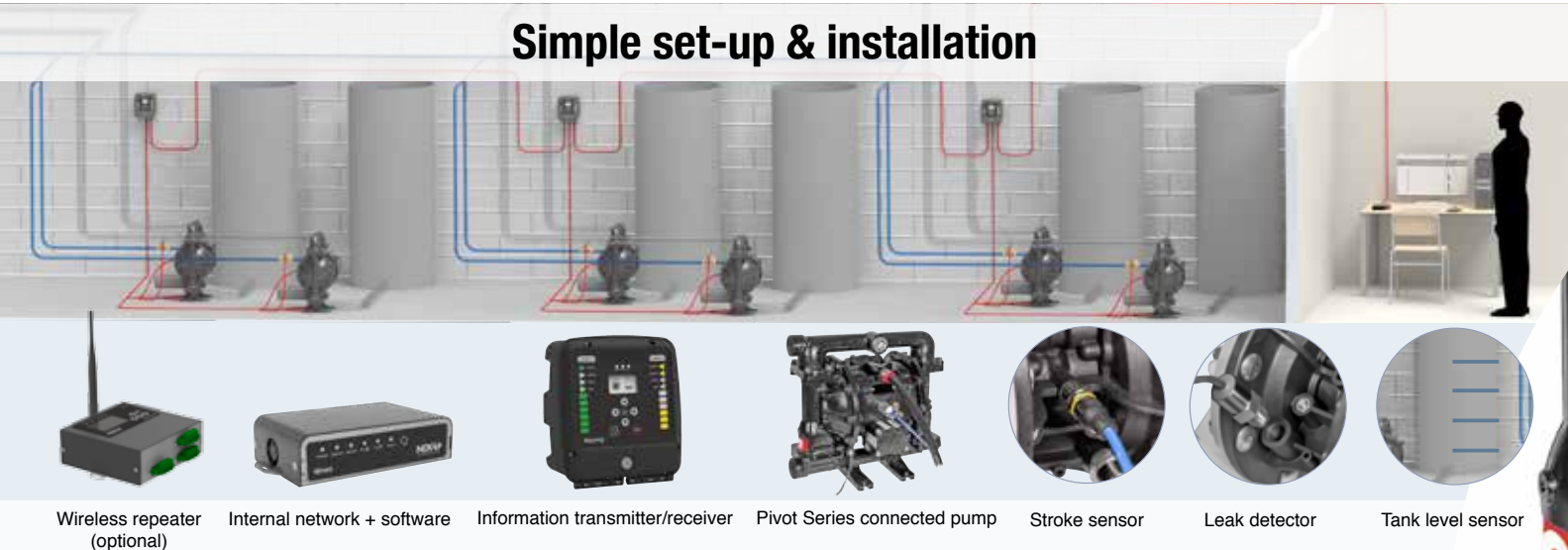
Highly recommended

► **When pumping fluids that can damage environment.**
► **With pumps in remote locations.**
► **When processing expensive fluids.**
► **When regulations require monitoring.**

U·pump features

U·pump is a versatile system that can be configured to fit your needs. All PIVOT series AODD Pumps are prepared to be sensorized and connected to U·Pump.

Simple set-up & installation

| Wireless repeater (optional) | Internal network + software | Information transmitter/receiver | Pivot Series connected pump | Stroke sensor | Leak detector | Tank level sensor |

Pumps & Tanks Monitoring

Information
- System Status.
- Pump Speed (Cycles per minute).
- Cycle Count.
- Working Pressure.
- Tank Level.

Failure Detection (with emergency stop)
- Leakage.
- Dry-Running.
- Tank Stock Level.

Real-Time Alerts
- Failure Alerts.
- Predictive Maintenance Alerts.

Pump Control
- Start / Stop Function.
- Programmable: Batching & Dispensing.
- Pump Timer.

Historical Data
- Maintenance History.
- Pump Speed Record.
- Events History.
- Exportable reports.

Integration
- API.

Interaction
- Web App compatible with tablets, PC, or Smartphone.
- Remote Access.

R-07/22 • 100 u. • Creator Silk 350 g/m²