Maid Labs TECHNOLOGIES

WHO WE ARE

MAID Labs Technologies is a Canadian company specialized in lift station monitoring, using sophisticated real time volumetric flow algorithms and diagnostics. We acquired our expertise over the past 30 years by analyzing thousands of lift stations. To our surprise, one third of lift stations had equipment malfunctions affecting flow results. We concluded that real-time diagnostics were required in order to improve flow calculations and to supply predictive maintenance warnings to the users. Our R & D focus is on energy-saving products for existing pumping equipment. Our flow accuracy is our reputation.

MISSION

We strive to provide innovative high-quality flow meter & diagnostic solutions at a reasonable cost, products that allow municipalities to increase the efficiency of their staff and equipment. We create tools to help our customers save time, energy and money.

PROBLEMS

SCADA systems should never have to report emergencies by being proactive instead of reactive. Lift station pumps are not operated to be efficient. Lift station data analysis is nonexistent. Equipment's abnormal behaviors should be reported before degenerating into catastrophic events. Budgets and financial viability, sustainability, planning and resilience of aging assets are some of the challenges facing our industry. We can help.

TECHNOLOGY

We manufacture small monitoring devices that fit on the panel door, on a DIN rail or in a toolbox as a portable diagnostic tool. It logs flow, level, current, run time, starts, etc. every second for few years. Data and reports are accessed via Internet and USB key. It generates alarms and allows TCP/IP MODBUS access to its computed information.

Our technology is in constant evolution. Now that we master volumetric flow technology in real-time, we are collaborating with Montreal University to increase pump efficiency in lift stations through SCADA systems.

BENEFITS

- The perfect complement to any existing SCADA system … or can be used as one.
- The only flow-based operating system that increases the efficiency of pumps and volumetric capacity during storm surges.
- Real-time volumetric flow using installed level sensors to calculate high precision flow in and out of the station.
- Affordable, takes just a few minutes to install.
- Simply add this powerful computer to reduce substantially the power consumption and run times of the existing pumps.
- Cut electrical bills by up to 20%.
- Inexpensive solutions to prevent expensive problems.
- Portable version to troubleshoot or crosscheck existing systems
- To prove lift stations were built according to specifications

944 André-Liné, Granby, QC,
Canada J2J 1E2
T: 450 375-2144
Toll-free: 1 855 875-2144
www.maidlabs.com

GREEN TECHNOLOGY
ENERGY SAVINGS
SMART CITY

Volucalc Hybrid™ Series

TO BETTER MANAGE WASTEWATER PUMP STATIONS

2 MODELS AVAILABLE

CS CONSTANT SPEED

Abnormal behaviors are reported before degenerating with real-time diagnostics using flow and efficiency monitoring.

VS VARIABLE SPEED

Adds to the **CS model** to calculate flow through variable speed pump stations.

FlowMaid™

AFFORDABLE DATALOGGER WITH COMMUNICATION

With **2 analog inputs**, **a discrete input**, an **analog output** and **2 relay output**.
It is also an **open-channel flow meter** which can **work on batteries** over a year **with cellular communication**.

SensorMaid

MULTIFUNCTION DATALOGGER

USB, Wi-Fi, Ethernet, cellular (with modem) and optional battery operation or backup.

- 5 digital inputs,
- 6 analog inputs individually set to current (4 inputs), 0-5VCC, 0-10VCC, 0-24VCC and 4-20 mA.
- 2 digital outputs (C contact 1 amp)
- 1 analog output (4-20 mA)

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Worldwide patent pending on real-time volumetric flow.