Portable Closed Loop PID Controller for Life Sciences

Flotek

Integrating Sonotec flow sensors with the Flotek closed loop PID controller.

PANTHER
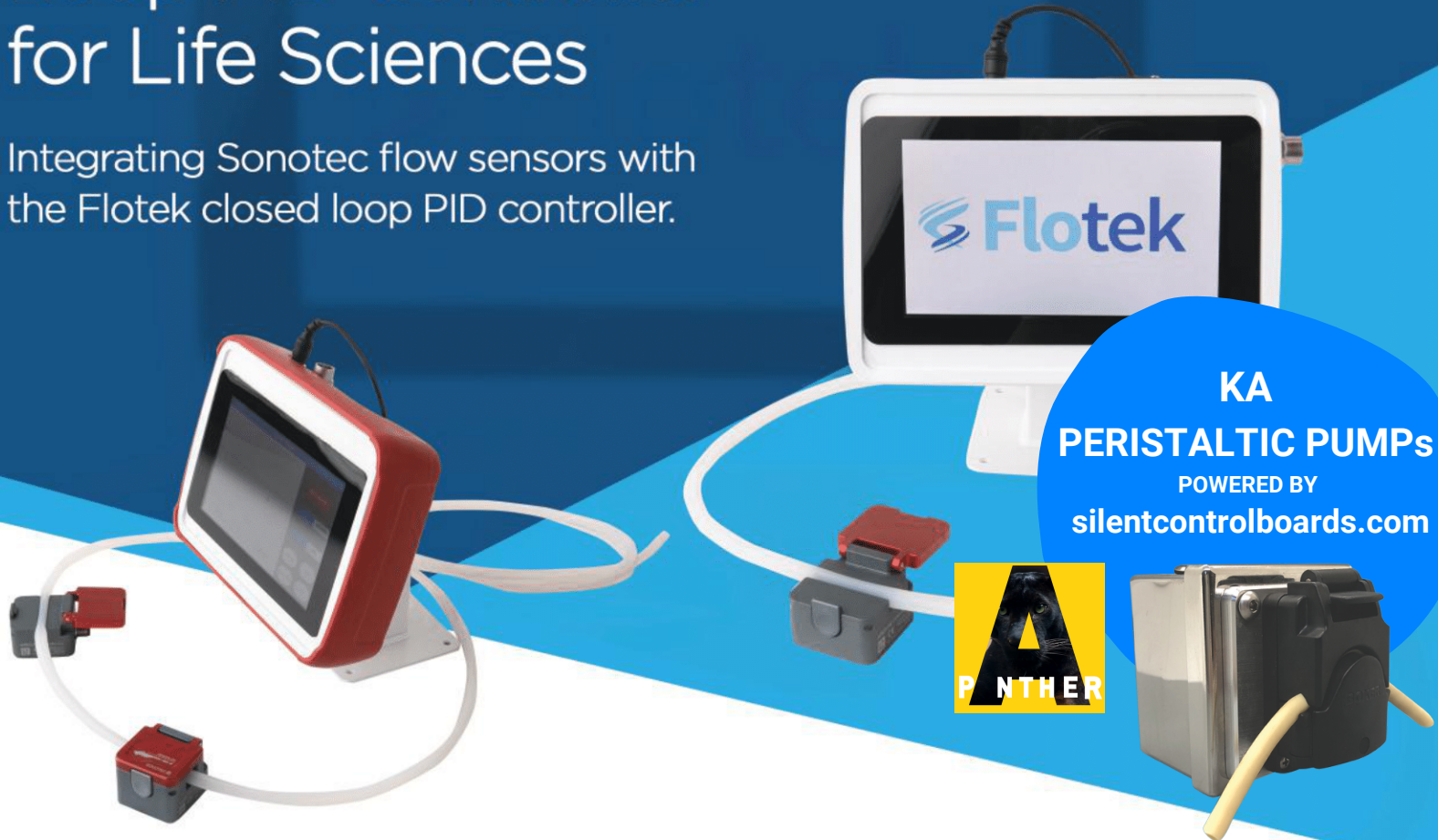
The new Economical Flotek Controller is a self-contained,"open architecture," one channel PID closed loop controller manufactured to control any pump, load cells and sensors from a single portable, compact unit. Designed to be cost-effective and with a user- friendly touch screen interface, the Flotek Controller provides the ability to control, monitor and data log a wide variety of applications.

The Flotek Controller communicates via WIFI, USB, HDMI, analog (4-20mA), digital (modbus) and ethernet (RJ45) and integrates seamlessly with the Sonotec ultrasound, non-invasive flow meters for unrivaled precision and accuracy.

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Applications for the **Flotek Controller** with **Sonotec Flow Meters**:

- ☑ Create a PID closed control loop

- ☑ Pump feedback and control

- ☑ pH control - acid/base additions

- ☑ Bolus feed/Dosing - carbon (glucose) feeding

- ☑ Balance feed rate - in/out

- ☑ Filling/Dispensing - for vials and bottling lines

- ☑ Perfusion (Continuous Culture Applications) - replacing scales and load cells Integrated turnkey controller system (pump, tubing, flow sensor, load cell)

- ☑ Closed Loop pressure control pacing off a pressure transducer

Flotek Controller Technical Specifications:

Unit Dimensions: Width/Length: 220mm X 140mm
Height: 50mm

Weight: 2.6lbs or 1.2kg

Materials: ABS- Engineered Plastic

Operating System: Linux Based Operating System

Highly Adaptable Interface: WiFi accessible (On/Off, Password Protected), 2x USB (2.0), HDMI (for monitors), Analog (4-20mA), Digital (Modbus), and Ethernet (RJ45).

User Interface/Operational Options: 7" or 10" on-board touch screen display, direct monitor connection (via HDMI), USB for mouse and keyboard connection, or wireless connection to external touch screen or tablet.

Internet Remote Access (Password Protected)

Voltage: 120/220V and Fuse Protected

Customer General Questions:

What types of inputs/outputs is the Flotek Controller compatible with?
The Flotek controller is compatible with: WiFi, USB (2.0), HDMI, Analog (4- 20mA), Digital (Modbus), and Ethernet (RJ45).

How many inputs/outputs can one Flotek Controller handle?
This Flotek Controller is our economical version and is designed for one PID loop - controlling one pump from a set point from one sensor. (Sonotec, Mettler, Hamilton, Pendotech..any analogue or digital signal)

What are my options for viewing/interfacing with the Flotek Controller?
The user interface options for the Flotek Controller are also modular depending on your application.The Controller can be equipped with 10" touch screen or be connected directly to a monitor, or wirelessly linked to a touch screen, tablet, or mobile device.

What can I accomplish with the Flotek Controller and Sonotec flowsensors?
Extremely accurate measurement of the flow rate by Sonotec sensors allows the Controller to modulate the pump output to deliver your process fluids with precision and accuracy both flow rate and volume dispensing.

Another awesome product from,

Flotek

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