

# Portable Closed Loop PID Controller For Life Sciences

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



The new Flotek Controller is a self-contained, "open architecture" PID closed loop controller manufactured to control several pumps, load cells and sensors with a single portable, compact unit. Designed to be cost-effective and with a user friendly 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.

## 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, loadcell)
- ✔ Closed Loop pressure control pacing off a pressure transducer

## **Flotek Controller** Technical Specifications:

### **Unit Dimensions:**

Width/Length: 7.75" x 5.75" or 20cm x 15cm

Height: 5.75" or 15cm

**Weight:** 5.9 lbs or 2.7kg

**Materials:** Epoxy Coated Aluminum

**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).

**Scalable:** Base model comes with 4 connections and is expandable in cassettes of 4 (up to 50)

**UserInterface/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 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,



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