

FOR IMMEDIATE RELEASE

## **CP Biotools Launches PONDERA™ Weight Controller to Assist in Process Management and Control in the Biopharmaceutical and Other Industries**

**Princeton, NJ, January 9, 2026** – CP Biotools, a provider of advanced bioprocessing solutions, is pleased to announce the availability of the Pondera Weight Controller that is a convenient and effective tool for use in biopharmaceutical laboratory and production operations as well as other industrial process applications. It enables a weight to be reached or maintained in a container on a scale by turning a pump on until a set point is reached. Most scales that have an RS232 Serial Port can be connected to the controller and any pump with a dry contact remote start/stop capability can be used.

Key Applications Include:

- Maintenance of weight in a cell culture bioreactor in applications such as a continuous perfusion where spent media is removed at a slow and steady rate and fresh media must be added back to the bioreactor
- Any application where liquid is drawn from a source container and the source container must be replenished to maintain its constant volume
- Automated filling of containers to a specific weight without tying up precious manpower

The operational principle is a weight setpoint is entered by the user on the touch-screen and when the Pondera is in weight control mode which is activated via the touch-screen, a relay signal to the pump is activated to turn the pump on when current weight is below the setpoint. The pump turns off once weight reaches the setpoint. In addition, it has capability to use a level sensor installed on a vessel, as an alternative to a scale, to turn on a pump when the level drops below the sensor height. Different types of level sensors such as capacitance, optical, conductive ultrasonic, or float-type switch can be used if they have a 5volt digital output signal. The controller has a variety of power options available on the rear panel connector to power the level sensors (5VDC, 12VDC, 24VDC).

The intuitive software is used to access all control features via the 5-inch touchscreen on the panel of the ABS plastic product housing. All external electronic interface connectors are conveniently on the rear panel, and they are water-tight to protect the product in different types of environments. The Ethernet port installed on the rear panel offers an interface for data capture to external systems.

“CP Biotools recognized the need for this product when it was searching for a solution that was required as an accessory that some customers would need to use our ‘Novel Single-Use Perfusion Bioreactor Without a Mixing Impeller’ that is in development”, said John Benson, Product Development Manager at CP Biotools. Continuing, “Our perfusion bioreactor in development has a pump built-in as its mixing mechanism”, Benson emphasizes “however the bioreactor still requires a users’ bioreactor control system to control the critical bioreactor parameters of pH, dissolved oxygen, and temperature.

Not all bioreactor control systems have the feature that controls the bioreactor vessel weight or level that is an absolute requirement in a perfusion process so the Pondera can fill that capability gap”.

The technical capabilities of the Pondera Weight Controller are designed to address a range of requirements:

- **Unmatched Scalability:** Any capacity scale can be connected to it. As an alternative, to using a scale, a variety of level sensors can be used with it on any size vessel. And pumps of different types and any flow rate can be used.
- **Precision Control:** The weight control system can be setup to program control to better than 1% of vessel weight.
- **Flexibility:** Using the level sensor or a scale, any type of container can be used- bottles, plastic / metal containers / tanks, or storage bags.
- **Connectivity:** The system includes an Ethernet port utilizing the MODBUS and EtherNet/IP protocols for seamless data capture by external computerized systems.

“A range of off-the-shelf cables are available to interface to scales such as those offered by Mettler Toledo, and commonly used pumps” added Benson. “This creates a plug and play system that is up and running in minutes”

For more information on how Pondera can create a more efficient process please visit [www.cpbiootools.com/weight-controller/](http://www.cpbiootools.com/weight-controller/)

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### **About CP Biotools**

At CP Biotools, our objective is to commercialize CP Biotools' existing products and develop additional products based on the patents we own with a focus on scalability, flexibility, and cost efficiency. Our proprietary technology provides life-science laboratories and biopharmaceutical companies the processing tools they need to accelerate research, increase productivity and deliver in-demand therapies.

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