

## Driving a **Higher Standard** in Industrial Hygiene Flow Calibration



“ The students using the Dry Cal and/or DC-Lite universally exclaim it is the easiest calibrator to use. Instead of no more school books the new motto could be no more messy soap, breaking bubbles or messy cleanup. They also like the way it looks The Dry Cal and/or DC-Lite is finer than frog hair. Bios International is investing in the future of the environmental health science and industrial hygiene professions by providing students with their wonderful equipment.

The generous donation of the two Dry Cal and/or DC-Lite units means that our students have access to the latest and greatest technology in calibration. In addition, with all of the budget cuts throughout education obtaining precious funds to procure equipment is becoming more difficult. The use of their units is easier for me because there is no more emptying soap after the students use it. Also it is a pain to have to buy special soap from the manufacturer for outrageous prices.

I think Bios is the greatest thing since sliced bread. ”

### **D. Gary Brown, Dr. PH, CIH**

Associate Professor of Environmental Health Science  
Eastern Kentucky University, Richmond, Kentucky



# Bios

Driving a Higher Standard  
in Flow Measurement<sup>SM</sup>

Accuracy. Reliability. Convenience.

## • Bios Defender™ 500 Series

The Defender Series of true primary gas flow standards gives the occupational health and safety professional everything he or she needs to help protect people in the workplace from the risks associated with air quality. Simply turn it on, attach it to your pump and begin taking flow measurements. It's that simple.

Both the Defender 510 and 520 come with Bios Optimizer™ 110 stand-alone software for record keeping, with an upgrade option to Optimizer 120 for the ultimate calibration database. If you want an enhanced audit trail, use the Defender 520 "three-in-one" standard to record the temperature and pressure conditions of the calibration process – instantly, and without the need for additional equipment.

<b>Flow Ranges</b>	<b>Low (L)</b> 5 mL – 500 mL/min <b>Medium (M)</b> 50 mL – 5,000 mL/min <b>High (H)</b> 300 mL – 30,000 mL/min
<b>Accuracy</b>	1% Volumetric (of reading)
<b>Size</b>	Small enough to fit easily in your hand; slim enough to slide into a briefcase or tote
<b>Weight</b>	29 oz / 820 g
<b>Dimensions (H x W x D)</b>	5.5 x 6 x 3 in / 140 x 150 x 75 mm

User-Selectable Measurement Units	
<b>Volumetric Flow</b>	mL/min L/min cc/min cf/min
<b>Pressure (Defender 520 only)</b>	mmHg PSI kPa
<b>Temperature (Defender 520 only)</b>	°C °F

Featuring **Proven DryCal® Technology**, the Defender primary flow standard uses a near-frictionless piston and photo-optic sensors to deliver fast, precise volumetric flow measurements at the push of a button, without messy soap solutions. Even better, our patented technology provides the OHS professional with ultimate defensibility in an increasingly litigious environment - and especially when calibrated annually by Bios. Convenience, accuracy and reliability have made Bios primary standards the first choice among thought-leaders, engineers, scientists and regulatory professionals worldwide.



Our ISO 17025-accredited lab is one of the world's most accurate, with third party accreditation by NVLAP of NIST.

Bios offers an array of defensible flow measurement products and solutions, delivering precision, reliability and convenience to the hands of professionals in a wide range of applications, including industrial hygiene, environmental, process control and R&D.



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