

HlePRO Solicitation for Goods and Services

Solicitation Title: Primary Flow Standard System

Description: NIST traceable Primary Flow Standard System (PFSS) capable of calibrating flow measuring devices at user defined flow rates.

Minimum Specifications for the PFSS:

1. Shall be Mesa Labs DryCal ML-800 or Equal
2. Shall be a primary standard
3. Shall be portable
4. Shall use near-frictionless dry piston and flow cell design
5. Shall not use any liquid
6. Shall include a base unit and three interchangeable flow cells with the following specifications:

	Cell 1 (Ultra Low)	Cell 2 (Low)	Cell 3 (High)
Flow Range, sccm	0.5-50	5-500	500-50,000
Accuracy, Standardized, %	±0.25	±0.15	±0.15
Time Per Reading, second	1-60	3-135	1-35

7. Shall measure gas flow rates of both pressure and vacuum flow sources
8. Shall have an integrated temperature sensor and barometric pressure in the gas flow stream for instant conversion of the volumetric readings into standardized flow
9. Shall have a backlit display
10. Shall be compatible with noncorrosive, noncondensing, noncombustible gases, less than 70% humidity
11. Shall be capable of obtaining readings with a push of a button
12. Shall be capable of obtaining readings manually (one reading at a time), or automatically in a hands-free continuous auto-read mode
13. Shall have RS-232 serial and USB ports, cable, and software to enable data to be downloaded to a Microsoft Excel spreadsheet.
14. Shall have an internal rechargeable battery capable of powering system for at least 6 hours
15. Shall have NIST-traceable calibration certificate(s) good for at least one year
16. Shall have a 120VAC adapter/charger, North American standard

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17. Shall have a Pelican storage case with customized storage compartments or foam cutouts
18. Shall have a 1 year warranty; 6 months for battery