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Header 2

List View

- General Information**
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Procurement Folder: 1949548

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: ENVIRONICS INC

Alias/DBA:

Total Bid: \$98,832.48

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CRFQ

SO Dept: 0313

SO Doc ID: DEP2600000032

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Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 2

Total of All Attachments: 2



Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
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**State of West Virginia  
 Solicitation Response**

**Proc Folder:** 1949548  
**Solicitation Description:** Multi-Gas Dilution Calibrators w/Ozone Generators  
**Proc Type:** Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2026-05-07 13:30	SR 0313 ESR04212600000007338	1

**VENDOR**  
 000000219346  
 ENVIRONICS INC

**Solicitation Number:** CRFQ 0313 DEP2600000032  
**Total Bid:** 98832.47999999999592546373605 **Response Date:** 2026-04-21 **Response Time:** 11:11:10  
**Comments:**

**FOR INFORMATION CONTACT THE BUYER**

Joseph (Josh) E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@wv.gov

**Vendor Signature X** **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Multi-Gas Dilution Calibrators w/Ozone Generators	6.00000	EA	16285.000000	97710.00

Comm Code	Manufacturer	Specification	Model #
49241708			

**Commodity Line Comments:**

**Extended Description:**

Multi-Gas Dilution Calibrators w/Ozone Generators

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Shipping charges	1.00000	EA	1122.480000	1122.48

Comm Code	Manufacturer	Specification	Model #
78121603			

**Commodity Line Comments:** Shipping cost is total for 6 Units at \$187.08 ea. Insured ground.

**Extended Description:**

Shipping charges

## DESCRIPTION

The Environics® Series 6100 Computerized Multi-Gas Calibration System is a computer controlled, state-of-the-art instrument for dynamic calibration of ambient air analyzers. The Series 6100 automatically performs zero, precision, span and multi-point calibrations using NO, NO<sub>2</sub>, SO<sub>2</sub>, CO, O<sub>3</sub>, hydrocarbons and other gases of interest. The 6100 meets or exceeds all U.S. Environmental Protection Agency requirements. Both in service and new Series 6100 can be optimized for low levels of ozone, down to 2 ppb repeatably.

The Series 6100 consists of a single chassis supporting up to 3 thermal mass flow controllers, an ozone generation module, a mixing zone, a reaction chamber for gas phase titration, and control electronics.

Commands are entered from the front panel and displayed on a backlit 4 line by 20 character liquid crystal display. The instrument may also be remotely operated using contact closures or the RS-232 serial data interface, both standard in the Series 6100.

The mass flow controllers are calibrated to a NIST (National Institute of Standards and Technology) traceable primary standard. The calibration data consists of a comparison of desired versus actual flow over the full dynamic range of the instrument with linear interpolation between points. Calibration data is stored in non-volatile memory and may be updated by the user with a suitable standard.

The Series 6100 ozone generator is factory calibrated using a NIST traceable ozone standard. This temperature controlled, ultra-violet (UV) based ozone generator includes a precision photo-optical feedback circuit to compensate for lamp aging effects.

The Series 6100 is available in either a standard rack mount or portable configuration.

## PRODUCT FEATURES AND BENEFITS

User-friendly interactive software with plain language prompts is simple to use, reducing technician training time and virtually eliminating error.

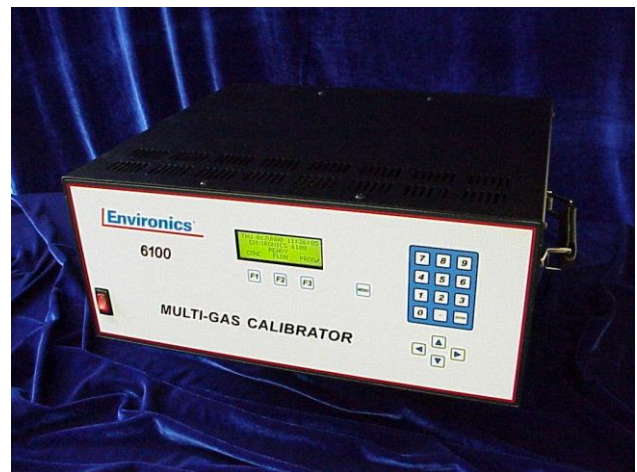
Automatic calculation of dilution and span gas flows based on commanded concentration eliminates the need for manual computation and allows rapid transition from point to point.

Internally-stored mass flow controller calibration data improves accuracy by as much as a factor of ten and simplifies field recalibration.

Internally-stored ozone generator calibration data insures linear, repeatable ozone generation without photometer control. Ozone generator performance exceeds U.S. EPA criteria for ozone transfer standards.

Ozone generator pressure compensation ensures repeatable ozone generation at a flow rate and back pressure other than that at which it was originally calibrated.

Full, two-way RS-232 Serial Data Interface (standard) permits remote operation of the instrument including data collection, gas selection, initiation of zero, span and multi-point calibrations.



## SOFTWARE

- **Blend (Conc. Mode):** In response to software prompting, user selects gas port, span (cylinder) gas concentration, output gas flow (total) and output gas concentration. Series 6100 automatically delivers concentrations at the total flow specified.
- **Generate Ozone:** Allows user to specify, then generate a precise concentration of ozone.
- **Gas Phase Titration:** Utilizes blend and generate ozone routines to lead user through GPT using "excess NO" method.

- **Manual (Flow Mode):** Allows user to manually command a desired rate of flow for each mass flow controller.
- **Display:** Allows user to monitor flow rates for each mass flow controller separately. Also provides ozone oven block temperature during generate ozone and gas phase titration routines.
- **Maintain Ports:** User enters the name of the span gas in the source cylinder, its concentration (ppm) and the port to which the cylinder is connected.

## SPECIFICATIONS

### Mass Flow Controller (as a percent of setpoint)\*

	From 10 to 100% of Full Scale Flow
Accuracy:	
Concentration:	± 1.0%
Flow:	± 1.0%
Repeatability	± 0.05%

\* Mass flow controllers are calibrated using a NIST traceable Primary Flow Standard, using a Reference Temperature of 25° C (77°F) and a Reference Pressure of 760mm Hg (29.92 in. Hg)

Warm up time: 30 minutes

### Ozone Generator

Concentration Range: 0.02 - 0.5 ppm at 5 – 10 slpm  
 Optional Ranges: Low ozone – 2 ppb  
 0.05 - 1 ppm at 5 – 10 slpm

Other ranges available upon request

Accuracy: ±2% or ± 0.003 ppm  
 30 day repeatability: ±2% or ± 0.003 ppm

### Mechanical

#### Inlets

Balance: External 1/4" Swagelok™\*  
 Span(s): External 1/4" Swagelok™\*

#### Outlet

One external 1/4" Swagelok™\*

\*(or compatible fitting)

### Operating Pressures at inlets

Minimum: 15 psig (1.03 Bar)  
 Nominal: 25 psig (1.72 Bar)  
 Maximum: 30 psig (2.07 Bar)

### Wetted Surfaces

Tubing:	Teflon™
Glass Chambers	Pyrex™
MFC's:	Stainless Steel
Seals:	Viton™

### Operating temperatures

32° - 122° F (0° - 50° C)

### Performance Temperature Range

59° - 95° F (15° - 35° C)

### Weight

Standard: 20 lbs.  
 Including Options: 30 lbs.

### Dimensions (w x h x d)

Portable: 17" x 7" x 15"  
 Rack: 19" x 7" x 15"

### Electrical

Standard: 100 VAC to 250 VAC, (50/60 Hz)  
 Current: 2 Amps (maximum)

### Operating Modes

Front panel keypad  
 Internal timer control  
 RS-232 serial data interface  
 I/O control (8 inputs / 8 outputs) programmable through software

### Data I/O

RS-232 serial data interface  
 I/O Control (8 inputs / 8 outputs)

### OPTIONS

- Rack Mount
- Extra Gas Inlets
- Solenoid Valve on Output
- Permeation Oven
- 3<sup>rd</sup> Mass Flow Controller
- Ammonia/H2S Circuit



Or [click here](#) to learn more

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April 8, 2026

**Ref. Quote # 9012R3**

Dear Renu,

Environics is pleased to provide the following quotation for the Series 6100 Computerized Multi-Gas Calibration System. Specifications, terms and prices are outlined below. Quote revision corrected misunderstanding on the calibration request.

**Base Price Standard Unit:**

**\$16,285.00**

This unit will dilute gas, and generate ozone for GPT of NO with O<sub>3</sub> to produce NO<sub>2</sub> and includes:

- One **20 SLPM** dilution gas mass flow controller
- One **100 SCCM** span gas mass flow controller
- One **10 SCCM** span gas mass flow controller

**Note:** MFCs include full 11 point calibration

- One Dilution Gas Inlet Port
- Four Span Gas Inlet Ports
- Ozone Generation Module, reaction chamber and electronics for ozone calibration and gas phase titration: 0.5ppm at 5LPM, standard 5 point calibration
- RS-232 Serial Data Interface (Terminal/Printer Computer/Modem)
- I/O control (8 inputs / 8 outputs) programmable through software
- Portable Configuration
- All Teflon tubing
- USB-ETH Adapter (YJETH-232)

**Unit total: \$ 16,285.00**

**Total price for 6 units: \$ 97,710.00**

**+Shipping estimate for 6 units (Insured Ground\*) \$ 1,122.48**

**General Notes**

- Payment –Net 30. All prices in USD and include a resale discount of 10% and cash discount of 2%. If paying by credit card or with an automated early pay system, this discount does not apply.
- Shipping of units is 7-10 weeks after receipt and acceptance of P.O. and deposit
- All gases used in this gas mixing system should be dry and compatible with noted seal and other materials. The gas mixing system quoted herein does not include any design precautions for mixing corrosive or explosive gases. The use of such gases voids all warranties.
- Shipping – Billed to customer DHL, Fedex or UPS account or added to invoice - Due to the custom nature, orders are non-cancellable/refundable.
- Warranty - Two year parts & labor, excludes consumables
- Quote Validity – June 30, 2026. All prices, terms and conditions of sales are subject to change without notice.
- Non-US Customers – If you are purchasing from outside the US, an Export User Certificate is required with your order.
- Full terms and conditions upon request.

*Computerized Gas Mixing / Dilution / Calibration Systems*