



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
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The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Solicitation Response(SR) Dept: 0313 ID: ESR01272600000004290 Ver.: 1 Function: New Phase: Final

Modified by batch, 02/05/2026

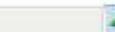
Header [General Information](#) [Contact](#) [Default Values](#) [Discount](#) [Document Information](#) [Clarification Request](#)

Procurement Folder: 1872109

SO Doc Code: CRFQ

Procurement Type: Central Purchase Order

SO Dept: 0313

Vendor ID: 000000230863 

SO Doc ID: DEP2600000021

Legal Name: MET ONE INSTRUMENTS INC

Published Date: 1/15/26

Alias/DBA:

Close Date: 2/5/26

Total Bid: \$139,171.14

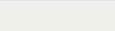
Close Time: 13:30

Response Date: 02/03/2026 

Status: Closed

Response Time: 12:27

Solicitation Description: Multi-Gas Dilution Calibrators w/Ozone Generators

Responded By User ID: metone1 

Total of Header Attachments: 3

First Name: Joe

Total of All Attachments: 3

Last Name: Mattos

Email: joe.mattos@acoem.com

Phone: 541-471-7111



Department of Administration
Purchasing Division
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Post Office Box 50130
Charleston, WV 25305-0130

**State of West Virginia
Solicitation Response**

Proc Folder: 1872109

Solicitation Description: Multi-Gas Dilution Calibrators w/Ozone Generators

Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2026-02-05 13:30	SR 0313 ESR0127260000004290	1

VENDOR

000000230863

MET ONE INSTRUMENTS INC

Solicitation Number: CRFQ 0313 DEP2600000021

Total Bid: 139171.1400000000139698386192 **Response Date:** 2026-02-03 **Response Time:** 12:27:30

Comments: N30 Days

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	23028.190000	138169.14

Comm Code	Manufacturer	Specification	Model #
49241708			

Commodity Line Comments: See Bid Specs vs CAL 3000 Comparison Sheet submitted with this bid
 RFQ Requirement Serinus Cal 3000 Specification Status
 Portability: Portable configuration with carry handle permanently attached to one side. Standard rack-mount chassis; carry handle is not an option. Shortfall
 Weight: Maximum of 30 lbs. 23.8 kg (approx. 52.5 lbs). Shortfall
 Width: 17.0" to 18.0". Chassis: 16.5"; Front Panel: 16.9". Shortfall
 Height: 7.0" to 8.0". Chassis: 6.4" (4RU); Front Panel: 6.9". Shortfall
 Depth: 15.0" to 16.0". Rack length: 23.5"; Total length: 26.1". Shortfall
 Case Construction: Mechanically attached rubber feet at bottom four corners. Equipped with 9/16" high foot bumpers. Meets
 Surface: Smooth surfaced case on all but back panel. Aluminium/Steel enclosure with smooth surfaces; cooling vents and handles are accepted. Meets
 Connections: All power, signal, and gas connections must be mounted to the back panel. All gas ports and communication interfaces (RS232, USB, I/O) are on the rear panel. Meets
 Diluent Gas Inlet: Minimum one (1) 1/4" Swagelok 316L SS bulkhead fitting. 1/4" Kynar bulkheads Shortfall
 Cylinder Gas Inlet: Minimum one (1) 1/8" Swagelok 316L SS bulkhead fitting. Standard uses 1/8" stainless steel tubing and fittings. Meets
 Calibration Gas Outlet: Minimum one (1) 1/4" Swagelok 316L SS bulkhead fitting. Standard uses four (4) Kynar 1/4" output ports. Shortfall
 I/O Connections: Must accept bare wire. Uses a 25-pin discrete I/O connector; breako

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	1002.000000	1002.00

Comm Code	Manufacturer	Specification	Model #
78121603			

Commodity Line Comments:

Extended Description:

Shipping charges

RFQ Requirement	Serinus Cal 3000 Specification	Status
Portability: Portable configuration with carry handle permanently attached to one side. Standard rack-mount chassis; carry handle is not an option.	23.8 kg (approx. 52.5 lbs).	Shortfall
Weight: Maximum of 30 lbs.	Chassis: 16.5"; Front Panel: 16.9".	Shortfall
Width: 17.0" to 18.0".	Chassis: 6.4" (4RU); Front Panel: 6.9".	Shortfall
Height: 7.0" to 8.0".	Rack length: 23.5"; Total length: 26.1".	Shortfall
Depth: 15.0" to 16.0".	Equipped with 9/16" high foot bumpers.	Shortfall
Case Construction: Mechanically attached rubber feet at bottom four corners.	Aluminium/Steel enclosure with smooth surfaces; cooling vents and handles are excepted.	Meets
Surface: Smooth surfaced case on all but back panel.	All gas ports and communication interfaces (RS232, USB, I/O) are on the rear panel.	Meets
Connections: All power, signal, and gas connections must be mounted to the back panel.	1/4" Kynar bulkheads	Meets
Diluent Gas Inlet: Minimum one (1) 1/4" Swagelok 316L SS bulkhead fitting.	Standard uses 1/8" stainless steel tubing and fittings.	Shortfall
Cylinder Gas Inlet: Minimum one (1) 1/8" Swagelok 316L SS bulkhead fitting.	Standard uses four (4) Kynar 1/4" output ports.	Meets
Calibration Gas Outlet: Minimum one (1) 1/4" Swagelok 316L SS bulkhead fitting.	Uses a 25-pin discrete I/O connector; breakout board compatible	Shortfall
I/O Connections: Must accept bare wire.	Back panel is recessed within the chassis frame.	Meets
Back Panel Inset: Protective inset so connections do not stand proud of case edges.	Uses detachable IEC mains power cord with protective earth conductor.	Meets
Power Cord: Detachable, three-conductor IEC power cord.	100–240 VAC autoranging; Max power 130 VA (~1.1A @ 120V).	Meets
Operating Power: 100–125 VAC, 50/60 Hz; max 4 Amps current consumption.	32°F to 113°F (0°C to 45°C); 20–35°C for optimum performance.	Meets
Temp Range: 32°F to 122°F (0°C to 50°C).	Standard is 10 SLPM; 20 SLPM is available	Shortfall
MFC 1: Dilution MFC with full-scale of 20 SLPM.	Standard is 50 sccm; 100 sccm is available	Meets
MFC 2: Cylinder gas MFC with full-scale of 100 sccm.	10 sccm is an optional extra.	Meets
MFC 3: Cylinder gas MFC with full-scale of 10 sccm.	NIST traceable; supports 5–10 calibration points stored in non-volatile memory.	Meets (Extra)
MFC Calibration: NIST traceable; 11-point calibration data stored in memory.	Employs a glass measurement cell and mixing manifold.	Shortfall (10 vs 11 pts)
Mixing Chamber: Borosilicate Glass/Pyrex chamber meeting EPA requirements.	UV lamp with heater, thermistor, pressure sensors, and photometer feedback loop.	Meets
O3 Generator: UV Lamp based with temp/pressure and photo-optical feedback.	Repeatability < 1% (24 hrs); precision 0.5 ppb or 0.2% of reading.	Meets
O3 Accuracy: 2.0% of requested concentration or within 3 ppb.	Dual RS232, USB, TCP/IP (Ethernet), and Bluetooth.	Meets
Remote Access: Bi-directional RS-232, Ethernet, and remote programming.	Stores 64 points and 16 sequences (total capacity context-dependent).	Shortfall
Step Capacity: Minimum 90 individual calibration steps.	Features internal solenoid bullet valves for flow control.	Meets
Output Solenoid: Closes when powered down or under microprocessor control.	Backlit LCD display capable of multi-line text and graphics.	Meets
Display: Alpha-numeric, min 4 lines x 20 characters.	24-month (2-year) warranty from date of shipment.	Meets
Warranty: Minimum two-year warranty on parts and labor.		



Serinus® Cal 3000

Advanced Multi-Gas Dilution Calibrator with
Ozone Generator and Photometer

Reliability, accuracy and precision are hallmarks of Acoem's product range. It's why Acoem's Calibrators have long been trusted worldwide.

The Serinus Cal 3000* includes an ozone photometer for the accurate creation and delivery of ozone concentrations when calibrating ozone analysers. The photometer accurately and continuously measures the ozone concentration to control output of the internal ozone generator, providing an accurate ozone source for routine ozone calibration.

* Acoem Serinus Cal 3000 formerly known as Ecotech Serinus Cal 3000

Features

- Serinus Cal user interface makes all functions simple & intuitive
- In-built photometer & ozone generator for use as a Level 3 ozone transfer standard
- Ozone photometer based on the reliable & proven technology used in the Serinus 10 gas analyser.
- Can be certified as an ozone Level 2 or Level 3 transfer standard

Dilution & span flows

Dilution gas inputs:	1 standard 100 – 200 kPa (g) (2 optional)
Source gas inputs:	4 standard 100 – 200 kPa (g) (8 optional)
Dilution mass flow controller:	10 SLPM, 0 Deg, 1 ATM (std), 1 SLPM, 2 SLPM, 5 SLPM or 20 SLPM (optional), 2nd MFC* (optional)
Source mass flow controller:	50 SCCM, 0 Deg, 1 ATM (std), 10 SCCM, 20 SCCM, 100 SCCM, 500 SCCM or 1 SLPM, 2 SLPM (optional), 2nd MFC* (optional)
Flow accuracy (constant temp):	Within 1 % of full scale
Flow repeatability:	Within 0.15 % of full scale
Linearity:	Within 0.15 % of full scale
Operating gas pressure:	100 – 200 kPa
Zero drift:	< 0.6 % per year
Response time:	< 5 seconds
Output manifold:	4 output ports standard
Dilution ratio:	Variable 10:1 to 2000:1 (std configuration)
Case dimensions	
rack length:	597 mm (23.5") (front to rear)
Total length (with latch release):	638 mm (25.1")
Chassis width:	418 mm (16.5")
Front panel width:	429 mm (16.9")
Chassis height:	163 mm / uses 4RU (6.4")
Front panel height:	175 mm (6.9")
Weight:	23.8 kg

* Additional source MFC reduces available source ports by 1 and results in no analog output being available

Communication

User interface:	Via front panel keypad or computer
Programmable calibrations:	16 separate programmable sequences 32 separate programmable points
Analog output:	Voltage output of 0 to 5 V, with menu selectable zero off set of 0, 5 or 10 %
Analog input:	Three analog voltage inputs (0 - 5 VDC) CAT I rated
Digital output:	RS232 port #1: Normal digital communication RS232 port #2: Multidrop port used for multiple analyser connections on a single RS232 USB port connection on rear panel 25 pin connector with discrete status & user control USB stick memory (front panel) for data logging, event logging & parameter storage 8 Digital Outputs, open collector max 400 mA each at 12 VDC (max total output 2A) 8 Digital Inputs, 0 - 5 VDC CAT I rated 1 Diluent Control, + 12 V output.

Power

Operating voltage:	100 - 240 V VAC 50 / 60 Hz (autoranging)
Power consumption:	165 VA maximum 95 VA after warm-up
Operating conditions ambient temperature range:	0 - 45 °C (32 - 104 °F), 20 - 35 °C for optimum performance
Pressure:	Maximum altitude: 3000 m above sea level.

Ozone generator

Output concentration:	3 ppb to 5000 ppb
Flow rate:	Variable dependent on Dilution Mass Flow Controller installed
Repeatability:	< 1 % short term (24 hours) 5 % long term at constant temperature & humidity.

Photometer

Range:	0-20 ppm
Precision:	0.5 ppb or 0.2 % of reading, whichever is greater
Linearity:	< 1 % of full scale
Noise at zero:	< 0.25 ppb
Response time:	30 seconds to 95 %
Zero drift:	Temperature: 1.0 ppb per °C 24 hours: < 0.3 ppb 7 days: < 0.3 ppb
Span drift:	Temperature: 0.1 % per °C 7 days: 0.5 % of reading.





POWERED BY ACOEM

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Grants Pass OR 97526
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www.metone.com

WEST VIRGINIA DEPT OF ENVIRONMENTAL PROTECTION Renu Chakrabarty 601 57TH STREET SE DIVISION OF AIR QUALITY CHARLESTON WV USA 25304	Quotation # 54165 Quotation Firm: 60 Days Payment Terms: C.C. Ship Date: 7 - 9 Weeks ARO Delivery Terms : Ex works Documentation & Handling	Rev:	Date: 1/29/2026
Please Reference Quote Number 54165 On Document When Ordering			

Please Send Purchase Order by email to the Met One Instruments Order Desk, orderdesk.moi@acoem.com

Line Qty	Item#	Description	Price	Disc	Price	Disc%	Extension
1		Quote for CAL 3000s					
2							
3	6	E020303	Serinus Cal 3000 Dilution Calibrator	21,700.00	20,615.00	5%	123,690.00
4	6	C040007	POWER CORD, 2M, USA	9.30	8.84	5%	53.01
5	6	E020317	PCA, NETWORK PORT, Calibrators (installed)	203.90	193.71	5%	1,162.23
6	6	E020312-11	20L DILUENT MFC, INSTALLED OPTION	7.20	0.00	100%	0.00
7	6	E020313-04	100 CC SOURCE MFC INSTALLED OPTION	7.20	0.00	100%	0.00
8	6	E020318-01	10CC ADDITIONAL SOURCE MFC INSTALLED OPTION	2,327.00	2,210.65	5%	13,263.90
9							
10	1	FRT.CHARGE	ESTIMATED SHIPPING VIA FEDEX GROUND	1,002.00			1,002.00
11							

Quote By: _____
David W. Gilmore

Total:(US\$) 139,171.14

Terms & Conditions

1. VALIDITY: Quotation will be valid for a period of 60 days from the quote date.
2. Please note the \$200 minimum value for all orders. Thank you for your support.
3. A credit card convenience fee of 3% will be applied to all credit card transactions.

THIS QUOTATION IS SUBJECT TO MET ONE STANDARD TERMS & CONDITIONS OF SALE.

Warranty Terms & Conditions

1. The warranty period for Met One supplied products and systems is 2 years (unless otherwise noted) from date of shipment or that as agreed to by Met One and the customer.
2. Met One warrants that its products will be free from defects in materials and workmanship under normal use and service for the duration of the warranty period.
3. Products which have been repaired or replaced during the warranty period are warranted for the remainder of the unexpired portion of the original warranty period.
4. RA (Return Authorization): Authorization and shipping instructions for the return of any product must be obtained by the purchaser from the Met One service department before returning the product.

Limitation of Warranty

The warranty set forth above does not extend to and shall not apply to:

Consumable or expandable items which require replacement during the normal course of operation.

Products which have been subject to abuse, misuse, neglect, accident, power reversal or improper installation.

Products damaged by improper operation, lightning or excessive power surges.

Products which have been repaired or altered by other than Met One authorized personnel, unless purchaser has properly altered or repaired the products in accordance with procedures previously approved in writing by Met One.

Met One offers no other warranties expressed or implied other than the Limited warranty contained herein which gives the purchaser specific legal rights. Met One has no liability for consequential damages. In any case, Met One's entire liability under any provision of this Agreement shall be limited to the amount actually paid by the purchaser for the product.

This Agreement is governed by the laws of the State of Oregon