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Header 3

List View

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

Procurement Folder: 1872109

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: MET ONE INSTRUMENTS INC

Alias/DBA:

Total Bid: \$139,171.14

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CRFQ

SO Dept: 0313

SO Doc ID: DEP2600000021

Published Date: 1/15/26

Close Date: 2/5/26

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 3

Total of All Attachments: 3



Department of Administration
Purchasing Division
2019 Washington Street East
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 ESR01272600000004290	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
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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 excepted. 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.	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 except	Meets
Connections: All power, signal, and gas connections must be mounted to the back pa	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; breakout board compatible	Meets
Back Panel Inset: Protective inset so connections do not stand proud of case edges.	Back panel is recessed within the chassis frame.	Meets
Power Cord: Detachable, three-conductor IEC power cord.	Uses detachable IEC mains power cord with protective earth conductor.	Meets
Operating Power: 100–125 VAC, 50/60 Hz; max 4 Amps current consumption.	100–240 VAC autoranging; Max power 130 VA (~1.1A @ 120V).	Meets
Temp Range: 32°F to 122°F (0°C to 50°C).	32°F to 113°F (0°C to 45°C); 20–35°C for optimum performance.	Shortfall
MFC 1: Dilution MFC with full-scale of 20 SLPM.	Standard is 10 SLPM; 20 SLPM is available	Meets
MFC 2: Cylinder gas MFC with full-scale of 100 sccm.	Standard is 50 sccm; 100 sccm is available	Meets
MFC 3: Cylinder gas MFC with full-scale of 10 sccm.	10 sccm is an optional extra.	Meets (Extra)
MFC Calibration: NIST traceable; 11-point calibration data stored in memory.	NIST traceable; supports 5–10 calibration points stored in non-volatile memory.	Shortfall (10 vs 11 pts)
Mixing Chamber: Borosilicate Glass/Pyrex chamber meeting EPA requirements.	Employs a glass measurement cell and mixing manifold.	Meets
O3 Generator: UV Lamp based with temp/pressure and photo-optical feedback.	UV lamp with heater, thermistor, pressure sensors, and photometer feedback loop.	Meets
O3 Accuracy: 2.0% of requested concentration or within 3 ppb.	Repeatability < 1% (24 hrs); precision 0.5 ppb or 0.2% of reading.	Meets
Remote Access: Bi-directional RS-232, Ethernet, and remote programming.	Dual RS232, USB, TCP/IP (Ethernet), and Bluetooth.	Meets
Step Capacity: Minimum 90 individual calibration steps.	Stores 64 points and 16 sequences (total capacity context-dependent).	Shortfall
Output Solenoid: Closes when powered down or under microprocessor control.	Features internal solenoid bullet valves for flow control.	Meets
Display: Alpha-numeric, min 4 lines x 20 characters.	Backlit LCD display capable of multi-line text and graphics.	Meets
Warranty: Minimum two-year warranty on parts and labor.	24-month (2-year) warranty from date of shipment.	Meets



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
Voice: (541) 471-7111
Fax: (541)-471-7116
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 Rev: Date: 1/29/2026

Quotation Firm: 60 Days

Payment Terms: C.C.

Ship Date: 7 - 9 Weeks ARO

Delivery Terms : Ex works

Documentation & Handling

**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