

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

WORLD CALIBRATOR PC INTERFACEABLE



Displayless VERSION



VFD-VERSION



2 Year Warranty ✓



Rev: 09 July 2024

WORLD CALIBRATOR Displayless Version



Notable Features:

- PC Interface program:
 - Western or Asian Languages
- Operator Selectable Options
 - Multiple language options; European or Asian Version
 - Multi gas option
 - Volumetric or mass flow
 - At Reading or Full Scale Accuracy Calibration Type
 - Reference T and Reference P
 - Engineering units for all reported parameters
- Semi-Automatic calibration-verification when used with F&J digital air samplers
- Customizable calibration report
- Standard Accuracy: $\pm 1.0\%$ Full Scale (F.S.)
- Customizable to 1% of Reading Accuracy
- Two Year Warranty
- Complementary Storage Case

WORLD CALIBRATOR Vacuum Fluorescent Display (VFD) Version



Notable Features:

- Vacuum Fluorescent Display:
 - (4 lines \times 24 characters)
- 4 button key pad for stand alone operation
- Mass flow or Volumetric flow
- Volume Totalization Feature
- Operator selectable Reference T and P
- Operator selectable engineering units
- Multi gas option
- Standard Accuracy: $\pm 1.0\%$ Full Scale (F.S.)
- Customizable to 1% of Reading Accuracy
- User customizable calibration report
- Semi-Automatic calibration-verification when used with F&J digital air samplers
- PC Interface program:
 - Western or Asian languages
- Two Year Warranty
- Complimentary Storage Case

Common Features and Specifications

MEASUREMENT PRINCIPLE

Flow Sensor: Differential Pressure Sensor
Standardization: Operator selectable values for reference temperature and pressure
Flow Curve linearization: Individually calibrated and software corrected

MEASUREMENT RANGES

Air flow: Various flow ranges available
Temperature: -40° - 122° F (-40° - 50° C)
Barometric pressure: 30 - 22 In-Hg (760 - 559 mm-Hg); (101.325-74.5 kPa)
approx. Sea level to 5900 ft. (1800 m) elevation above sea level
Optional low range to 10 In-Hg (254 mg) (33.86 kPa)

MEASUREMENT ACCURACY

Air flow: Standard $\pm 1.0\%$ of full scale; custom $\pm 1\%$ of Reading available as an option
Temperature (Typical): $\pm 1^\circ\text{C}$ over range -20°C to 50°C
Barometric pressure: $\pm 1\%$ of reading over measurement range of 22.00-30.00 "Hg

STANDARD TEMPERATURE and PRESSURE CHOICES:

Temperature 32°F (0°C) 59°F (15.0°C) 68°F (20.0°C) 70°F (21.1°C) 77°F (25.0°C)
Pressure 29.92"Hg (1 atm, 760mm Hg, 1.013 bar, 101.325 kPa)
1 bar, (100kPa, 750mm Hg, 0.987 atm 29.53"Hg)

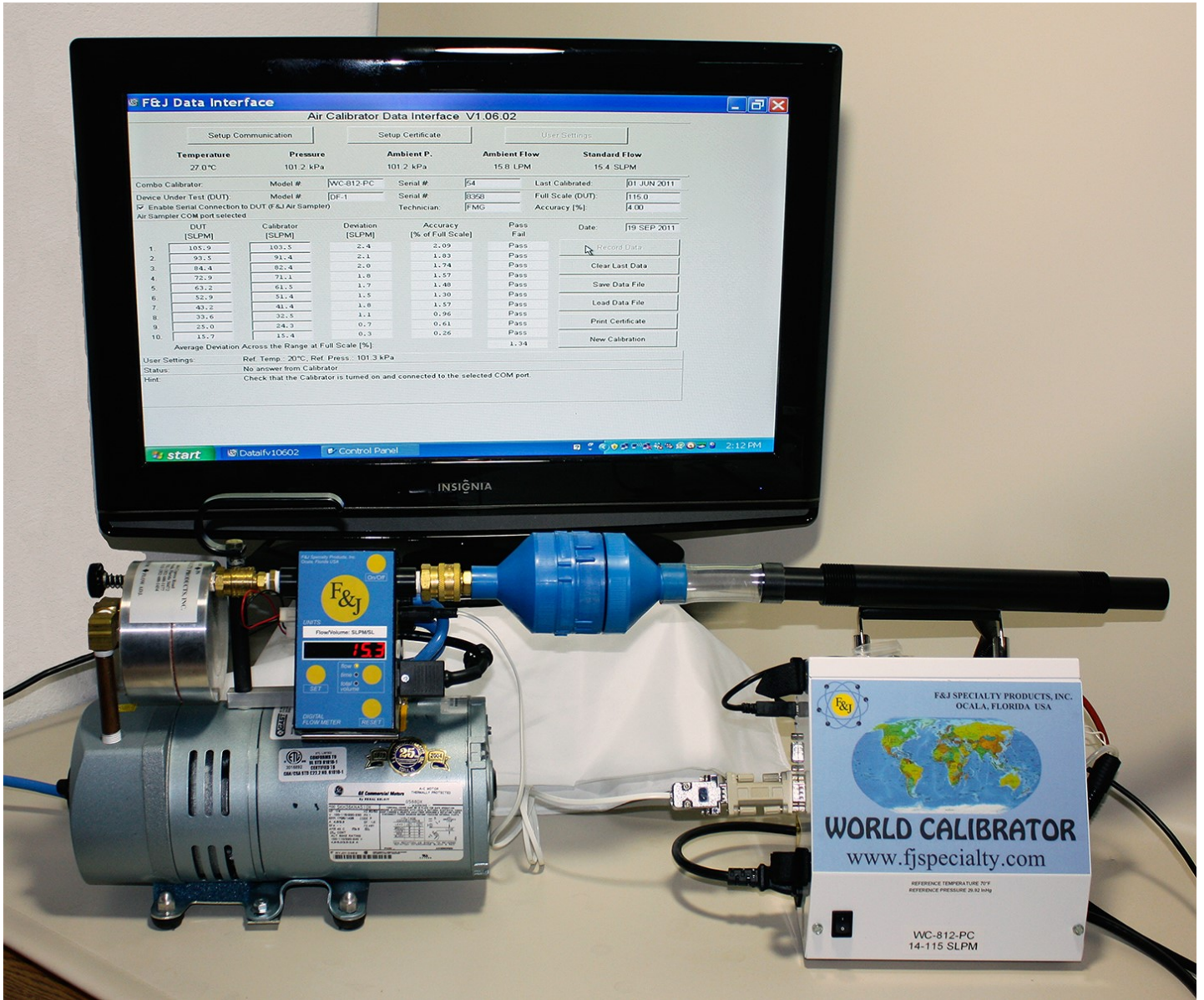
PARAMETERS and RESOLUTIONS DISPLAYED on the PC SCREEN

	Parameter	Engineering Unit	Resolution	
Flow Options:	CFM	Cubic feet per minute	0.01	CFM
	LPM	Liter per minute	.1	LPM
	m ³ /min	Cubic meter per minute	0.0001	m ³ /min
	m ³ /hr	Cubic meters per hour	0.001	m ³ /hr
	cc/min	Cubic centimeter per minute	1	cc/min
Temperature:	F	Degree Fahrenheit	0.1	Degree F
	C	Degree Celsius	0.1	Degree C
	In-Hg	Inches of Mercury	0.01	In-Hg
Pressure:	mm-Hg	Millimeters of Mercury	0.1	mm-Hg
	kPa	Kilo pascals	0.1	kPa
	atm	atmospheres	0.001	atm
	bar	bar	0.001	bar

GENERAL SPECIFICATIONS

Power requirements: Max 0.6A; 100–120 VAC;50/60Hz Max 0.3A; 220–240 VAC;50/60Hz
Operating temperature: -4°F to 122°F -20°C to 50° C
Storage temperature: -20°F to 158°F -29°C to 70° C
Dimension (L×W×H) 8.625"×3.75"×8.375" 219×95.25×213mm
Weight: 8 lbs. 6 oz. 3.8 Kgs.
Installation Category: Pollution Degree 2
Enclosure Rating: IPXO
Communications Ports: Dual RS232, one Mini-USB Connector, two DB-9
PO OS: Windows 98, Windows XP, Vista, Windows 7 and Windows 10 operating systems

World Calibrator, PC and DF-1 Setup



The World Calibrator PC program enables a user to perform the following functions:

1. Customize the calibrator measurement parameters to match the output parameters of the Device Under Test (DUT)
2. Perform a semi-automatic calibration with any F&J digital instrument
3. Print a calibration form; either Full Scale (F.S.) or at Reading accuracy
4. Archive the calibration data file electronically to reprint certificate or review calibration data
5. Enables operator to perform calibration-verifications on analog instruments as well as digital instruments

WORLD CALIBRATOR Displayless Version Typical Flow Range STANDARD FLOW MODELS

100-120 VAC		220-240 VAC	
Model	CFM (SLPM)	Model	CFM (SLPM)
WC-801-PC	.15 to 1 (4 - 28)	WC-801E-PC	.15 to 1 (4 - 28)
WC-802-PC	.25 to 2 (7 - 56)	WC-802E-PC	.25 to 2 (7 - 56)
WC-803-PC	0.4 to 3.0 (9 - 85)	WC-803E-PC	0.4 to 3.0 (9 - 85)
WC-812-PC	.5 to 4 (14 - 115)	WC-812E-PC	.5 to 4.0 (15 - 115)
WC-828-PC	1 to 9 (28 - 255)	WC-828E-PC	1 to 9 (28 - 255)
WC-814-PC	2 to 14 (56 - 400)	WC-814E-PC	2 to 14 (56 - 400)
WC-530-PC	5 to 30 (142 - 850)	WC-530E-PC	5 to 30 (142 - 850)
WC-1000-PC	5 to 40 (142 - 1132)	WC-1000E-PC	5 to 40 (142 - 1132)
WC-550-PC	6 to 50 (170 - 1415)	WC-550E-PC	6 to 50 (170 - 1415)
WC-870-PC	10 to 70 (283 - 1980)	WC-870E-PC	10 to 70 (283 - 1980)

HIGH FLOW MODELS

100-120 VAC		220-240 VAC	
Model	CFM (m³/hr)	Model	CFM (m³/hr)
WC-890-PC	15 to 90 (26 - 153)	WC-890E-PC	15 to 90 (26 - 153)
WC-125-PC	30 to 125 (51 - 212)	WC-125E-PC	30 to 125 (51 - 212)
WC-150-PC	40 to 150 (68 - 255)	WC-150E-PC	40 to 150 (68 - 255)
WC-200-PC	50 to 200 (85 - 340)	WC-200E-PC	50 to 200 (85 - 340)
WC-300-PC	60 to 300 (102 - 510)	WC-300E-PC	60 to 300 (102 - 510)
WC-400-PC	70 to 400 (119 - 680)	WC-400E-PC	70 to 400 (119 - 680)
WC-600-PC	100 to 600 (170 - 1020)	WC-600E-PC	100 to 600 (170 - 1020)

BATTERY MODEL PART NUMBERS *

100-120 VAC		220-240 VAC	
WC-801B-PC	WC-870B-PC	WC-801BE-PC	WC-870BE-PC
WC-802B-PC	WC-890B-PC	WC-802BE-PC	WC-890BE-PC
WC-803B-PC	WC-125B-PC	WC-803BE-PC	WC-125BE-PC
WC-812B-PC	WC-150B-PC	WC-812BE-PC	WC-150BE-PC
WC-828B-PC	WC-200B-PC	WC-828BE-PC	WC-200BE-PC
WC-814B-PC	WC-300B-PC	WC-814BE-PC	WC-300BE-PC
WC-530B-PC	WC-400B-PC	WC-530BE-PC	WC-400BE-PC
WC-550B-PC	WC-600B-PC	WC-550BE-PC	WC-600BE-PC

* Battery models do not bear the CE mark or UL/CSA approvals

Note: F&J Multi-Sensor World Calibrator models are only manufactured in the Vacuum Fluorescent Display Series

WORLD CALIBRATOR

VFD Version

Typical Flow Range

STANDARD FLOW MODELS

100-120 VAC		220-240 VAC	
Model	CFM (SLPM)	Model	CFM (SLPM)
WC-801-VFD	.15 to 1 (4 - 28)	WC-801E-VFD	.15 to 1 (4 - 28)
WC-802-VFD	.25 to 2 (7 - 56)	WC-802E-VFD	.25 to 2 (7 - 56)
WC-803-VFD	0.4 to 3.0 (9 - 85)	WC-803E-VFD	0.4 to 3.0 (9 - 85)
WC-812-VFD	.5 to 4 (14 - 115)	WC-812E-VFD	.5 to 4.0 (15 - 115)
WC-828-VFD	1 to 9 (28 - 255)	WC-828E-VFD	1 to 9 (28 - 255)
WC-814-VFD	2 to 14 (56 - 400)	WC-814E-VFD	2 to 14 (56 - 400)
WC-530-VFD	5 to 30 (142 - 850)	WC-530E-VFD	5 to 30 (142 - 850)
WC-1000-VFD	5 to 40 (142 - 1132)	WC-1000E-VFD	5 to 40 (142 - 1132)
WC-550-VFD	6 to 50 (170 - 1415)	WC-550E-VFD	6 to 50 (170 - 1415)
WC-870-VFD	10 to 70 (283 - 1980)	WC-870E-VFD	10 to 70 (283 - 1980)

HIGH FLOW MODELS

100-120 VAC		220-240 VAC	
Model	CFM (m ³ /hr)	Model	CFM (m ³ /hr)
WC-890-VFD	15 to 90 (26 - 153)	WC-890E-VFD	15 to 90 (26 - 153)
WC-125-VFD	30 to 125 (51 - 212)	WC-125E-VFD	30 to 125 (51 - 212)
WC-150-VFD	40 to 150 (68 - 255)	WC-150E-VFD	40 to 150 (68 - 255)
WC-200-VFD	50 to 200 (85 - 340)	WC-200E-VFD	50 to 200 (85 - 340)
WC-300-VFD	60 to 300 (102 - 510)	WC-300E-VFD	60 to 300 (102 - 510)
WC-400-VFD	70 to 400 (119 - 680)	WC-400E-VFD	70 to 400 (119 - 680)
WC-600-VFD	100 to 600 (170 - 1020)	WC-600E-VFD	100 to 600 (170 - 1020)

BATTERY MODEL PART NUMBERS *

100-120 VAC		220-240 VAC	
WC-801B-VFD	WC-870B-VFD	WC-801BE-VFD	WC-870BE-VFD
WC-802B-VFD	WC-890B-VFD	WC-802BE-VFD	WC-890BE-VFD
WC-803B-VFD	WC-125B-VFD	WC-803BE-VFD	WC-125BE-VFD
WC-812B-VFD	WC-150B-VFD	WC-812BE-VFD	WC-150BE-VFD
WC-828B-VFD	WC-200B-VFD	WC-828BE-VFD	WC-200BE-VFD
WC-814B-VFD	WC-300B-VFD	WC-814BE-VFD	WC-300BE-VFD
WC-530B-VFD	WC-400B-VFD	WC-530BE-VFD	WC-400BE-VFD
WC-550B-VFD	WC-600B-VFD	WC-550BE-VFD	WC-600BE-VFD

* Battery models do not bear the CE mark or UL/CSA approvals

USER SETTINGS SCREEN

Impostaz. Utente

Lingua

- English
- Nederlands
- Français
- Deutsch
- Español
- Italiano
- Русский
- Български

Tipo Flusso

- Volumetrico
- Massa

Tipo Precisione

- Fondo Scala
- A Lettura

OK

Cancel

Temperatura

- °C
- °F

Pressione

- atm
- InHg
- mmHg
- bar
- kPa
- mbar
- hPa

Flusso

- CFM
- LPM
- cc/min
- m³/hr
- m³/min

Flusso di Masa

- g/min
- lbs/hr
- kg/hr

Temp. di Riferimento

- 32°F, 0°C
- 59°F, 15°C
- 68°F, 20°C
- 70°F, 21°C
- 77°F, 25°C

Press. di Riferimento

- 1 atm, 29.92 InHg, 760 mmHg, 1.013 bar, 101.3 kPa
- 0.987 atm, 29.53 InHg, 750 mmHg, 1 bar, 100 kPa

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404 Cypress Road, Ocala, FL 34472, USA Tel: +1 352 680-1177 Fax: +1 352 680-1454 www.fjspecialty.com

DATA INTERFACE SCREEN

F&J Data Interface

Air Calibrator Data Interface V1.07.03

Setup Communication | **Setup Certificate** | **User Settings**

Temperature 76.9°F | **Sensor Pressure** 29.75 InHg | **Barometric Pressure** 29.75 InHg | **Ambient Flow** 0.00 CFM | **Standard Flow** 0.00 SCFM

World Calibrator: Model # Serial # Last Calibrated:

Device Under Test (DUT): Model # Serial # Full Scale (DUT):

Enable Serial Connection to DUT (F&J Air Sampler) Technician: Accuracy [%]:

Data from Air Sampler is OK

	DUT [SCFM]	Calibrator [SCFM]	Deviation [SCFM]	Accuracy [% of Full Scale]	Pass Fail	Date: <input type="text" value="01 JUN 2017"/>
1.	4.01	3.99	0.02	0.50	Pass	<input type="button" value="Record Data"/> <input type="button" value="Clear Last Data"/> <input checked="" type="button" value="Save Data File"/> <input type="button" value="Load Data File"/> <input type="button" value="Print Certificate"/> <input type="button" value="New Calibration"/>
2.	3.70	3.71	-0.01	-0.25	Pass	
3.	3.23	3.25	-0.02	-0.50	Pass	
4.	2.87	2.91	-0.04	-1.00	Pass	
5.	2.43	2.46	-0.03	-0.75	Pass	
6.	2.00	1.98	0.02	0.50	Pass	
7.	1.68	1.66	0.02	0.50	Pass	
8.	1.24	1.27	-0.03	-0.75	Pass	
9.	0.83	0.81	0.02	0.50	Pass	
10.	0.41	0.39	0.02	0.50	Pass	
Average Deviation Across the Range at Full Scale [%]:					0.58	

User Settings: Volumetric, Accuracy Type: Full Scale, Ref. Temp.: 32°F, Ref. Press.: 29.92 InHg, Gas: Argon, Tube #2 (B14)

Status: Data from Calibrator is OK

Hint: Click Record Data and Clear Last Data to manage data lines. Click Print Certificate to generate a certificate using the recorded data table. Click New Calibration to delete all data and start a new test. While there are recorded data lines, User Settings is unavailable.

At Reading Accuracy Calibration Certificate

<p>CERTIFICATE OF CALIBRATION</p>	<p>F&J SPECIALTY PRODUCTS, INC. 404 Cypress Road Ocala, FL 34472 USA Tel: +1 352 680-1177 Fax: +1 352 680-1454 Email: fandj@fjspecialty.com www.fjspecialty.com THE NUCLEUS OF QUALITY AIR MONITORING PROGRAMS</p>
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MODEL #:	Test	SERIAL #:	1027		
REFERENCE INSTRUMENT:	Test	CALIBRATION DATE:	31 MAY 2017		
REFERENCE SERIAL #:	56	RECALIBRATION DATE:	31 MAY 2018		
REFERENCE CALIBRATED:	15 JUL 2011				
FLOW TYPE:	Volumetric	ACCURACY TYPE:	At Reading		
REFERENCE TEMPERATURE:	32°F	REFERENCE PRESSURE:	760 mmHg		
GAS:	Argon				
INSTRUMENT FULL SCALE:			30 [SCFM]		
INSTRUMENT ACCURACY AT READING:			± 1.5 [%]		
			ACCURACY AS % At Reading [%]		
	DEVICE UNDER TEST	REFERENCE INSTRUMENT	DEVIATION AT READING	PASS OR FAIL	
	FLOW [SCFM]	FLOW [SCFM]	[SCFM]		
	1. 6.95	6.97	-0.02	-0.29	Pass
	2. 9.10	9.05	0.05	0.55	Pass
	3. 12.02	12.12	-0.10	-0.83	Pass
	4. 15.88	15.98	-0.10	-0.63	Pass
	5. 18.61	18.68	-0.07	-0.37	Pass
	6. 21.23	21.47	-0.24	-1.12	Pass
	7. 24.53	24.45	0.08	0.33	Pass
	8. 26.80	26.91	-0.11	-0.41	Pass
	9. 28.81	28.75	0.06	0.21	Pass
	10. 30.19	30.16	0.03	0.10	Pass
	AVERAGE DEVIATION ACROSS THE RANGE AT READING [%]:			0.48	
<p>This is to certify that the instrument identified on this certificate has on this date certified to be within the instrument accuracy specified above. The Reference Flow Device bears letters of certification traceable to the National Institute of Standards and Technology (NIST), USA.</p>					
<p>CALIBRATED BY: _____ /KL/</p>					

Calibration Software and Equipment provided by F&J SPECIALTY PRODUCTS, INC. (V1.07.03 EN)
 404 Cypress Road, Ocala, FL 34472, USA Tel: +1 352 680-1177 Fax: +1 352 680-1454 www.fjspecialty.com

Full Scale Accuracy Calibration Certificate

CERTIFICATE OF CALIBRATION	F&J SPECIALTY PRODUCTS, INC. 404 Cypress Road Ocala, FL 34472 USA Tel: +1 352 680-1177 Fax: +1 352 680-1454 Email: fandj@fjspecialty.com www.fjspecialty.com THE NUCLEUS OF QUALITY AIR MONITORING PROGRAMS
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MODEL #:	Test	SERIAL #:	7784
REFERENCE INSTRUMENT:	Test	CALIBRATION DATE:	01 JUN 2017
REFERENCE SERIAL #:	56	RECALIBRATION DATE:	01 JUN 2018
REFERENCE CALIBRATED:	15 JUL 2016		
FLOW TYPE:	Volumetric	ACCURACY TYPE:	Full Scale
REFERENCE TEMPERATURE:	32°F	REFERENCE PRESSURE:	29.92 InHg
GAS:	Argon		
INSTRUMENT FULL SCALE:			4.00 [SCFM]
INSTRUMENT ACCURACY AT FULL SCALE:			± 2.00 [%]

	DEVICE UNDER TEST	REFERENCE INSTRUMENT	DEVIATION AT READING	ACCURACY AS % Of F.S. [%]	PASS OR FAIL
	FLOW [SCFM]	FLOW [SCFM]	[SCFM]		
1.	4.01	3.99	0.02	0.50	Pass
2.	3.64	3.66	-0.02	-0.50	Pass
3.	3.21	3.25	-0.04	-1.00	Pass
4.	2.88	2.90	-0.02	-0.50	Pass
5.	2.36	2.35	0.01	0.25	Pass
6.	1.98	1.99	-0.01	-0.25	Pass
7.	1.45	1.42	0.03	0.75	Pass
8.	1.01	0.99	0.02	0.50	Pass
9.	0.67	0.63	0.04	1.00	Pass
10.	0.41	0.39	0.02	0.50	Pass

AVERAGE DEVIATION ACROSS THE RANGE AT FULL SCALE [%]: **0.57**

This is to certify that the instrument identified on this certificate has on this date certified to be within the instrument accuracy specified above. The Reference Flow Device bears letters of certification traceable to the National Institute of Standards and Technology (NIST), USA.

CALIBRATED BY: _____ /KL/

Calibration Software and Equipment provided by F&J SPECIALTY PRODUCTS, INC. (V2.02.02 EN)
 404 Cypress Road, Ocala, FL 34472, USA Tel: +1 352 680-1177 Fax: +1 352 680-1454 www.fjspecialty.com



CERTIFICATE

Management system as per

ISO 9001:2015

The Certification Body TUV USA, Inc. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

F&J Specialty Products, Inc.
404 Cypress Road
Ocala, FL 34472
United States



Operates a management system in accordance with the requirements of ISO 9001:2015 and will be assessed for conformity within the 3 year term of validity of the certificate

Scope

Design and Manufacture of Portable and fixed station environmental air sampling instruments, airflow calibrators and supplies for radiological and non-radiological airborne pollutant monitoring applications. Product lines also include filter paper, filter holders, radioiodine collection cartridges and radon detection products.

Certificate Registration No. 58 100 20580008
Audit report No. 22-5613

Initial Certification Date: October 17, 2008
Issue Date: October 17, 2023
Expiry Date: October 16, 2026

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Accreditation Management
at TUV USA, Inc.

TUV USA, Inc.

215 Main Street, Salem, NH 03079 USA

www.tuv-nord.com/us





Contract Number: 800157

Certificate: **SGSNA/17/SUW/00304**
Test Report Number: SUW-4169042

Certified Product: World Calibrator

Trademark (if any):



Model(s):

WC-xxx-PC-z, WC-xxxE-PC-z, WC-xxx-VFD-z, WC-xxxE-VFD-z, WC-xxxB-VFD-z, WC-xxxBE-VFD-z, WC-xxxB-PC, WC-xxxBE-PC Where xxx can be 801, 802, 812, 828, 814, 530, 550, 870, 890, 125, 150, 200, 300, 400, 500, 600, 770 or 999, Where z can be O,C,* or Blank; WCMT-2, WCMT-2E, WCMT-3, WCMT-3E, WCMT-4, WCMT-4E, WCMT-VFD-2, WCMT-VFD-2E, WCMT-VFD-3, WCMT-VFD-3E, WCMT-VFD-4, WCMT-VFD-4E.

Technical Data: 1.0A; 100-240Vac; 50/60Hz

Name and Address of Applicant: F&J SPECIALTY PRODUCTS, INC.
404 Cypress Road, 34472, Ocala, Florida, United States of America

Name and Address of Manufacturer: F&J SPECIALTY PRODUCTS, INC.
404 Cypress Road, 34472, Ocala, Florida, United States of America

Name and Address of Factory: F&J SPECIALTY PRODUCTS, INC.
404 Cypress Road, 34472, Ocala, Florida, United States of America

This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at www.sgs.com. The product is certified according to ISO/IEC Guide 17067, *Conformity assessment - Fundamentals of product certification, System 3*, and in accordance with

UL 61010-1, 3rd Ed. May 11, 2012
CAN/CSA C22.2 No. 61010-1-12

Authorized by Effective date: 09 November 2017

Paul Krauss
Certifier

Consumer and Retail Services, a division of SGS North America Inc.
620 Old Peachtree Road, Ste. 100, Suwanee, GA 30024, USA
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Page 1 of 1



This certificate is issued by the company under its General Conditions for Certification Services accessible at www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this Certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



CERTIFICATE OF REGISTRATION



F&J SPECIALTY PRODUCTS, INC.

404 Cypress Road
Ocala, Florida 34472 USA

This laboratory is accredited in accordance with the recognized Standard ISO/IEC 17025:2017. "General Requirement for the Competence of Testing and Calibration Laboratories". This laboratory also meets the requirements of ANSI/NCSL Z540.3 2006 and any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of laboratory quality management systems

ISO/IEC 17025:2017

NIST Traceable Calibration & Servicing of Portable & Fixed Station Environmental Air Sampling Instruments & Air Flow Calibrators for Radiological & Non-Radiological Airborne Pollutant Monitoring Applications.

Additional Scope Detailed in the Attached Supplement

This approval is subject to the firm maintaining its system to the required standards, which will be monitored by AGS. In the issuance of this certificate, AGS assumes no liability to any party other than the firm named above, and then only in accordance with the agreed upon laboratory quality management systems.

Certification Number: AGS-US051717-1/3
Original Approval: May 17, 2017
Date of Issue: May 17, 2023
Date of Expiration: May 16, 2026


For and On Behalf of American Global Standards, LLC
Stephen Keenally, President



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