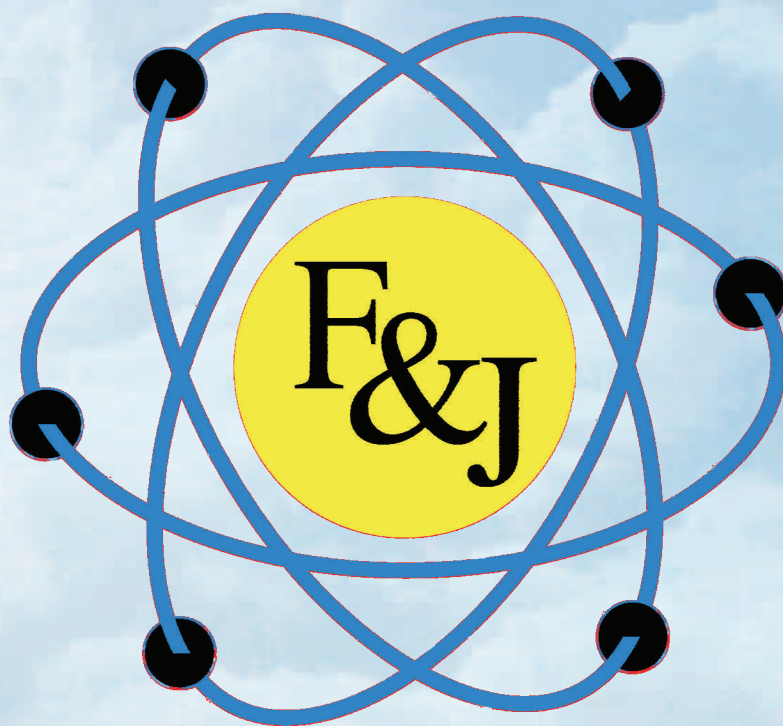


F&J SPECIALTY PRODUCTS, INC.

THE NUCLEUS OF QUALITY AIR MONITORING PROGRAMS



AIR SAMPLER TECHNOLOGY OPTIONS

Rev.: 17 Sept. 2014

COMPARISONS OF THE THREE F&J AIR SAMPLER TECHNOLOGY DESIGNS:

	Global Air Sampling Systems	Digital Flow Meter Systems	Analog Systems
Digital Display	X	X	—
RS232 Port(s)	X (Dual)	X	—
Correction of Flow and Volume to Reference T and P	X (operator selectable)	X (factory settable)	—
Capability to Report Flow and Volume data corrected to ambient conditions of T&P	X	X	—
Automatic Flow Control	X	X	Mechanical Regulator
Volume Accumulation	X	X	—
Elapsed Time Measurement	X	X	—
Auto shut-off on Time	X	X	—
Auto shut-off on Volume	X	X	—
Engineering Units Selection	Operator Selectable	Factory Settable	Factory Settable
Flow	X	X	X
Volume	X	X	—
Temperature	X	X	—
Pressure	X	X	—
Computer commands for remote control by PC device	X	X (On-Off only)	—
Periodic Sampling	X	—	—
On-board Data Storage	X	—	—
Mass Flow or Volumetric	X (operator selectable)	Volumetric only	Uncorrected Volumetric
Type of Gas (8 options)	X (operator selectable)	Air only	Air only
Power Outage Reporting	X	—	—
Language Options	X	—	—
Password Protection	X (3 levels)	—	—
Selectable RS232 Output Frequency	X	X	—
Selectable Data Storage Frequency	X	—	—
Report of min., max., avg values	X	—	—
Report of % Availability	X	—	—
Identification of Company	X	—	—
Identification of sample site	X	—	—
Identification of Filter(s)	X	—	—
Real Time Clock	X	—	—

Digital Flow Meter Air Sampler Features

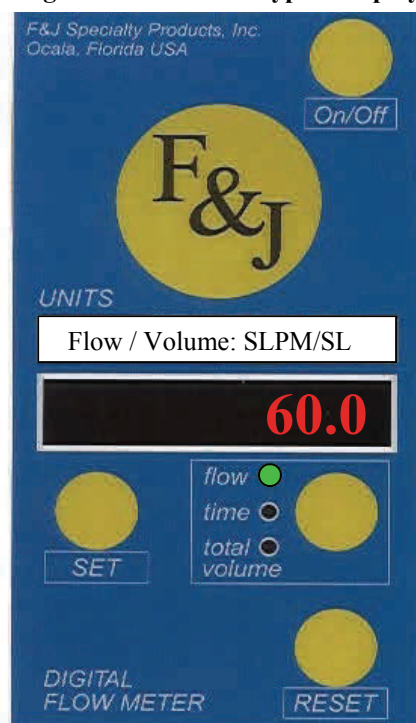
Operator Selectable Options:

Shut off Type	
On Time	0 min to 168 hours
On Volume	0 to 9.99×1099
RS232 Output Frequency	1/sec, 1/min,1/6min,1/hr
Automatic Flow Control:	Operator selectable within the instrument's operating flow Range

Factory Settable Options:

Flow/Volume units	sccm/scc, SLPM/SL, SCFM/SCF, sm3/hr, sm3/min
Temperature units	°C, °F
Pressure units	in.Hg, mmHg, kPa
Reference Temperature	0°C,20°C,70°F,25°C
Reference Pressure	29.92 inHg (760 mmHg)
Display Dimming Function	On or Off
Auto Shut-off Function	On or Off
Flow Control	On or Off
Sampling Mode	Volumetric
Gas Type	Air
Language Options for Label	English, French

Digital Flow Meter Keypad/Display

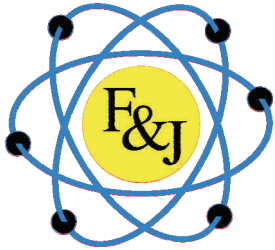


GLOBAL AIR SAMPLER SYSTEM FEATURES

Operator Selectable Features in Setup Mode

Language Options:	English, French
Sampling Mode:	Volumetric Flow, Mass Flow, or Isokinetic Flow*
Gas Type:	Air, O ₂ , N ₂ , H ₂ , CO, CO ₂ , C ₃ H ₆ , He, NH ₃
Engineering Units	
Volumetric Flow:	sccm, SLPM, SCFM, sm ³ /min, sm ³ /hr
Mass Flow:	kg/hr, g/min, lbs/hr
Temperature:	°C, °F
Pressure:	In. Hg, mm Hg, bar, mbar, atm, kPa, hPa
Reference T and P	
Reference T:	0°C, 15°C, 20°C, 21.1°C (70°F), 25°C
Reference P:	101.325 kPa (760 mm Hg), 100 kPa (1bar)
Data Output Frequency:	1 sec, 1 min, 10 min, 20 min, 30 min, 1 hr
Data Storage Frequency:	1 min, 10 min, 20 min, 30 min, 1 hr
Operating Mode:	Continuous or Periodic
Periodic Sampling Options:	1 hr. (12 five minute periods), or weekly (24 one hour periods for each of the 7 days)
Ending Mode:	By time, By volume
Operator Selectable Passwords:	2 levels
Date and Time Setup	Input of real time and date
Alarm Settings	<ul style="list-style-type: none">• Flow (<u>±</u>10%, <u>±</u>15%, <u>±</u>20%),• Temperature (high and low),• Inlet pressure drop (dust loading) and• Inlet pressure (high and low)
Optional Communication Ports	RS485, Ethernet

* Requires optional isokinetic functions to be installed to received data from F&J GAS-100/100E Duct Flow Monitor.



ELITE LIGHT SYSTEMS

PORTABLE LOW VOLUME AIR SAMPLING SYSTEMS

PORTABLE OR REMP AIR SAMPLING APPLICATIONS

5

Best

GAS-EDL-1
ELITE DIGITAL LIGHT (EDL)
Global Air Sampling System
Technology



The Ultimate in End User
Customization and features to support
automation and data management
requirements
Lightweight (<15 lbs)
Low Maintenance!



2 Year Warranty ✓

Better

DF-EDL-1
ELITE DIGITAL LIGHT (EDL)
Digital Flow Meter System



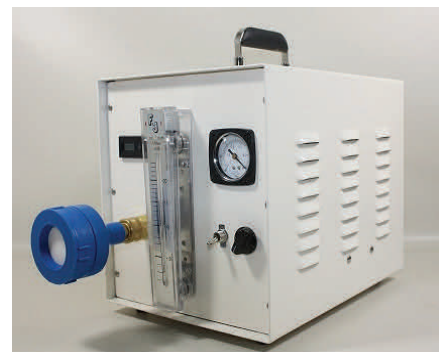
Powerful and affordable
Good automation of the air
sampling process
Lightweight (< 15 lbs)
Low Maintenance!



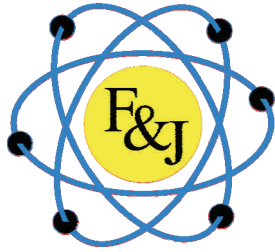
2 Year Warranty ✓

Good

LV-EAL-1
ELITE ANALOG LIGHT (EAL)
Air Sampler



Maintenance free vacuum generating
system
Very lightweight (13 lbs)



PORTABLE LOW VOLUME AIR SAMPLING SYSTEMS OILESS CARBON VANE SYSTEMS

Best

GAS-1
Global Low Volume Air Sampler
System



Precision machined DP flow sensor.
State-of-the-Art electronics.
Vacuum Fluorescent Display (VFD); 4
Line x 24 characters.
Constant air flow regulator.

Better

DF-1
Digital Flow Meter Air Sampler
System



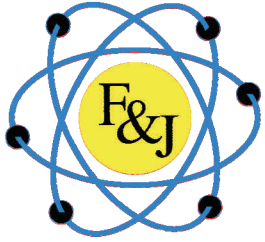
Reference or ambient flow conditions
are operator selectable.
Storage of elapsed time and volume in
the event of power outage.

Good

LV-1
Low Volume Analog Air Sampler
System



Designed for continuous indoor use.
Internal intake and exhaust mufflers.
Rotometer and Vacuum gauge.



PORTABLE HIGH VOLUME AIR SAMPLING SYSTEMS SMALL DIAMETER FILTER HOLDER DESIGNS

Best



DFHV-1D

Digital Flow Meter-**Brushless** Motor
Electrical Power: 1100 Watts

Better



DFHV-1

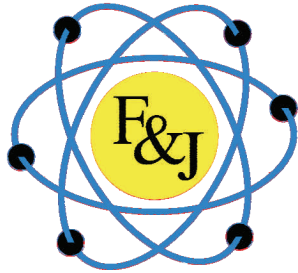
Digital Flow Meter-Brushed Motor
Electrical Power: 900 Watts

Good



HV-1

Traditional Analog-Brushed Motor
Electrical Power: 700 Watts



PORTABLE HIGH VOLUME AIR SAMPLING SYSTEMS 4 INCH (102 MM) DIAMETER FILTER HOLDER DESIGNS 100—120 VAC; 50/60 HZ, 1 PH

Best



DFHV-1DS

Digital Flow Meter-**Brushless** Motor
Electrical Power: 1100 Watts

Better



DFHV-1S

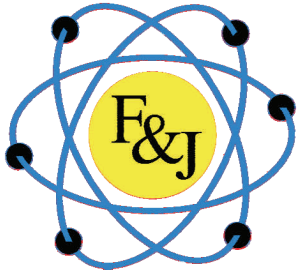
Digital Flow Meter-Brushed Motor
Electrical Power: 900 Watts

Good



HV-1S

Traditional Analog-Brushed Motor
Electrical Power: 700 Watts



ELITE LIGHT SYSTEMS

LOW VOLUME AIR SAMPLING SYSTEMS

REMP AIR SAMPLING APPLICATIONS

Best

GAS-EDL-22
Global Air Sampling System
System



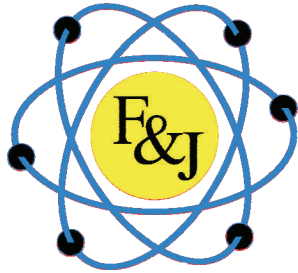
Powerful: Flow rate to 170 LPM
Very low maintenance.
Automatic flow control.
Brushless motor.

Better

DF-EDL-22
Environmental Low Volume Air
Sampler with Digital Flow Meter



Bright LED display.
Reference or ambient flow con-
ditions are operator selectable.
Elapsed time meter.
Auto shut-off on time or volume.



LOW VOLUME AIR SAMPLING SYSTEMS

REMP AIR SAMPLING APPLICATIONS

OILLESS CARBON VANE SYSTEMS

Best

GAS-22
Global Air Sampling
System Technology



The Ultimate in End User
Customization and Features to
support Automation and Data
Management Requirements

Better

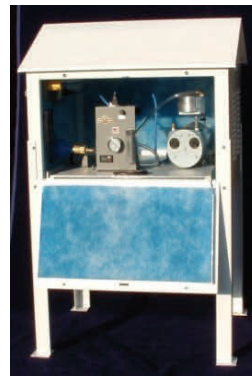
DF-22
Digital Flow Meter



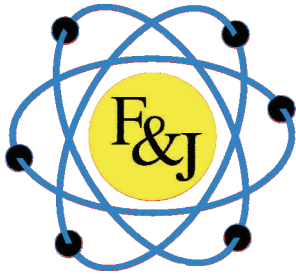
Powerful and Affordable
Good Automation of the Air
Sampling Process

Good

LV-22 Analog
Air Sampling Systems



Rugged
Durable and
Budget Friendly



LOW VOLUME AIR SAMPLING SYSTEMS 28B SERIES

Best

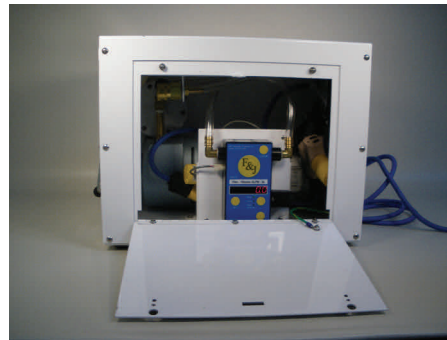
GAS-28B
Global Air Sampling
System Technology



The Ultimate in End User
Customization and Features to sup-
port Automation and Data Manage-
ment Requirements

Better

DF-28B
Digital Flow Meter



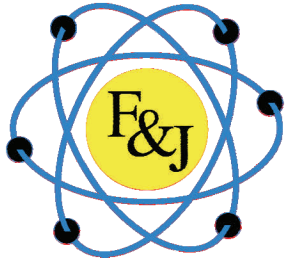
Powerful and Affordable
Good Automation of the Air
Sampling Process

Good

FJ-28B Analog
Air Sampling Systems



Rugged
Durable and
Budget Friendly



HIGH VOLUME TSP AMBIENT AIR SAMPLING SYSTEMS 100 - 120 VAC; 50/60 HZ, 1 PH

Best

GAS-60810D
Global Air Sampling
System Technology



The Ultimate in End User
Customization and Features to
support Automation and Data
Management Requirements

- Flow/Volume corrections to both Reference and Ambient T and P conditions is Automatic -

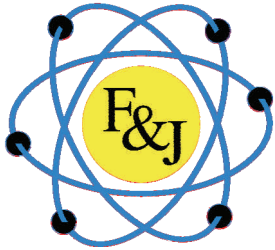
Better

DF-60810D
Digital Flow Meter



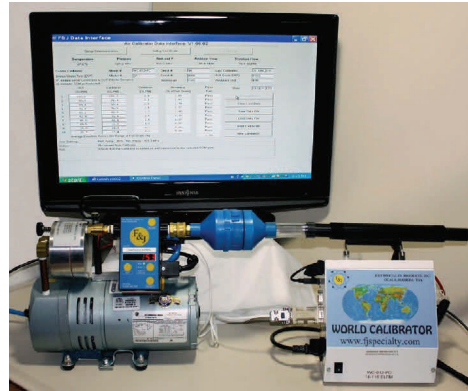
Powerful and Affordable
Good Automation of the Air
Sampling Process

- Flow/Volume correction to Reference or Ambient T and P conditions is operator Selectable -



F&J SPECIALTY PRODUCTS, INC. DIGITAL AIR FLOW CALIBRATION SYSTEMS

Best ± 1.0% Accuracy



World Calibrator Series

PC Interfaceable System
The Ultimate in End User
Customization and Features

Better Accuracy
± 2.0% Standard
± 1.0% (optional)



Compact Digital V.2 Series

Powerful
Accurate and
Operator Friendly

Good ±2.0% Accuracy



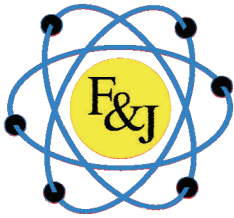
Mini-Calibrator Series

Small
Compact and
Budget Friendly

Comparisons of F&J Air Flow Calibrator Designs

Features	Mini-Calibrator	V.2 Series Calibrator	WC –VFD Series	WC-PC Series
Correction of Air Flows to a Reference T and P	X (factory settable)	X (factory settable)	X (operator selectable)	X (operator selectable)
Ambient Flow Option	No	Yes	Yes	Yes
Setting of Engineering Units				
Flow Rate/Volume	X (factory settable)	X (operator selectable)	X (operator selectable)	X (operator selectable)
Temperature (°C or °F)	X (factory settable)	X (operator selectable)	X (operator selectable)	X (operator selectable)
Pressure	X (factory settable) 3 options	X (factory selectable) 2 options	X (operator selectable) 5 options	X (operator selectable) 5 options
Accuracy Available	± 2.0%	± 2.0% ± 1.0% (optional)	± 1.0%	± 1.0%
Gas	Air	Air	Operator selectable 5 options	Operator selectable 5 options
Flow Mode	Volumetric	Volumetric	Volumetric or Mass Flow	Volumetric or Mass Flow
Calibration Certificate	No	No	Yes	Yes
Display	1 Line LED	1 Line LED	4 Line VFD/PC Screen	PC Screen
RS232 port	Yes	Yes	Dual	Dual
Power	110 or 240 VAC	110 or 240 VAC	110 or 240 VAC	110 or 240 VAC
Battery option	Yes (In development)	Yes	Yes	No
Multi-Flow Range Option	No	No	No	Yes
Multiple Language Option	No	No	Yes 9 options*	Yes 9 options
Semi-automatic calibration	No	No	Yes	Yes
PC Software Option	No	Yes	Standard	Standard

* Utilizing PC software option



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

PRODUCT PROFILE

Air Sampling Systems

- High Volume Air Samplers
 - Portable Grab Samplers
 - Environmental Systems
 - Enzyme Dust Samplers
 - PM10 Systems
- Continuous Air Samplers
 - Environmental Systems
 - Portable
 - Fixed Station
- Personal Air Samplers
- Emergency Response DC Powered Air Sampling Systems

Filter Paper

- Glass Fiber
- Cellulose
- Membrane
- Quartz

Filter Holders

- Open face
- In-Line
- Lapel Monitors
- Materials
 - Plastic
 - Aluminum
 - Stainless Steel

Radon Detection Devices

- 2-Day Passive Charcoal Canisters
- 7-Day Passive Charcoal Canisters
- Continuous Radon Monitors

Tritium Detection Systems

- Portable and Fixed Station Collection Systems utilizing Silica Gel or Molecular Sieve Absorbents
- Continuous Tritium Monitors

New Products

- Global Air Sampling Systems
- Digital Flow Meter Air Samplers
- C-14 Collection Systems
- ELITE DIGITAL LIGHT (EDL) Air Samplers
- Isokinetic Air Sampling Systems
- MEGA High Volume Air Samplers
- ULTRA High Volume (CTBTO) Air Samplers

Radioiodine Collection Cartridges

- TEDA Impregnated Charcoal
- Silver Zeolite
- Custom Cartridges
- Bulk Silver Zeolite

Air Flow Calibrators

- World Calibrator Series
- Compact Digital V.2 Series
- Bubble Calibrators for Personal Air Samplers



Fast & Friendly Customer Service

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Ordering by Fax

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