

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs



DF-22E



DF-28BE



DF-1E



DF-100E



DF-14ME

Low Volume Digital Flow Meter Air Sampling System

The Digital Flow Meter (DFM) air sampling systems provide air monitoring specialists with an affordable advanced-technology instrument that automates the air sampling process and provides excellent data quality and accuracy.

The DFM product line enables an operator to have factory installed operator requested engineering units for flow rate, temperature and pressure along with other useful features, which can be operator modifiable in the field.

Hardware features include an LED display, a four button keypad, automatic data saving feature for power outages and ability to remotely start and stop the air sampler via computer commands from a PC type device.

The flow rate and volume accuracy is a reliable $\pm 4.0\%$ of Full Scale (F.S.).

The F&J Digital Flow Meter air sampling systems out perform traditional analog air sampling systems in accuracy, data quality, simplicity of operation and their ability to interface with data transmission options. The DFM technology enables an end user to comply with present regulatory requirements and any future more stringent requirements.

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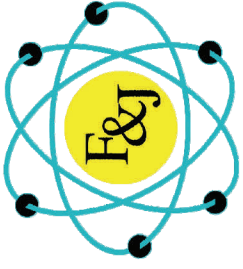
Low Volume Air Sampler Digital Flow Meter Options

Operator Selectable Options:

Shut off Type	
On Time	0 min to 168 hours
On Volume	0 to 9.99×10^{99}
RS232 Output Frequency	1/sec, 1/min, 1/6min, 1/hr
Flow Control:	Not Applicable for systems with mechanical regulator

Factory Settable Options:

Flow/Volume units	sccm/scc, SLPM/SL, SCFM/SCF, sm^3/hr , sm^3/min
Temperature units	$^{\circ}\text{C}$, $^{\circ}\text{F}$
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



Low Volume Digital Flow Meter Systems 220 - 240 VAC ; 50/60 Hz

	DF-1E	DF-100E	DF-14ME	DF-22E	DF-28BE	DF-75L-BL-AC
Dimensions L×W×H (in) (L x W x H cm)	16×7.5×13.25 (41 x 19 x 37)	8×8×12 (20.3×20.3×30.5)	18×15×4'-7" (46 x38x122-213)	32×26×48.25 (81 x 66 x 123)	19×12.5×13.25 (48 x 32 x 34)	11×11×18 (28 x 28 x 46)
Weight lbs. (kg)	36 (16,36)	4.1	67 (30,4)	112 (51)	59 (26,8)	
Maximum Flow CFM (LPM)	4.0 (115)	4.0 (115)	4.0 (115)	4.0 (115)	4.0 (115)	3.0 (85)
Maximum Vacuum ("Hg)	26	N/A	26	26	26	15
Regulator Type	Mechanical	N/A	Mechanical	Mechanical	Mechanical	Electronic
Motor H.P.	1/4	N/A	1/4	1/4	1/4	1/8
Power Requirements (watts)	1000	120	1000	1000	1000	200
Operating Temperature °C (°F)	-10 to 40 (14 to 104)	-29 to 40 (-20 to 104)	-10 to 40 (14 to 104)	-29 to 50 (-20* to 122)	-19 to 50 (-20* to 122)	-10 to 50 (14* to 122)
*Continuous operation only						
Storage Temperature (°C) (°F)	-18 to 50 (0 to 122)	-18 to 50 (0 to 122)	-18 to 50 (0 to 122)	-18 to 50 (0 to 150)	-18 to 50 (0 to 150)	-18 to 50 (0 to 122)
Voltage (AC)	220—240	220—240	220—240	220—240	220—240	220—240
IPX Rating	IPX2	IPX2	IPX2	IPX3	IPX3	IPX2
Enclosure Rating	Pollution Degree 2	Pollution Degree 2	Pollution Degree 2	Pollution Degree 3	Pollution Degree 3	Pollution Degree 2
Enclosure Protection	N/A	N/A	N/A	Powder Coat Paint	Powder Coat Paint	Enamel
Noise Level @ 1 meter (Average dB)	70	50	70	75	75	73

Available Options for Low Volume Digital Flow Meter Series



Flash Card Data Storage
Device
232FCDS

Data Storage Device, RS232
Input, Data
stored in SD Card (SD Card
not included)



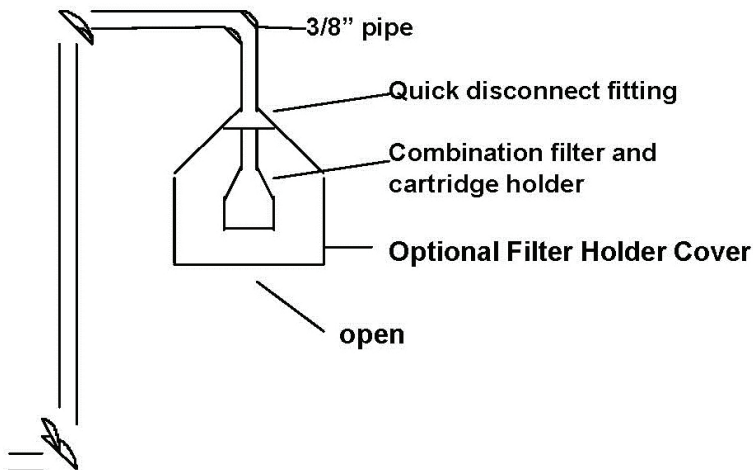
Surge Protection Device
FJ-SSI-HLASE
(Recommended for REMP systems)

Dimensions: 8”L × 8”W × 4.4”H
(20.3 x 20.3 x 11.2 cm)

Weight: 5.8 lbs. (2.6 kg)

Receptacles: Two (2) 250VAC, 16A European
“Schuko” style grounding receptacles.

Test Standard: IEEE Std C62.41.2TM—2002
and IEEE Std C62.62TM—2010



REMP System
Typical Goose Neck
Sampling Assembly
P/N: **2108GN**