

# F&J SPECIALTY PRODUCTS, INC.

*The Nucleus of Quality Air Monitoring Programs*

## HIGH VOLUME DIGITAL FLOW METER AIR SAMPLING SYSTEMS



**DF-PM2.5DT and  
DF-PM10DT**



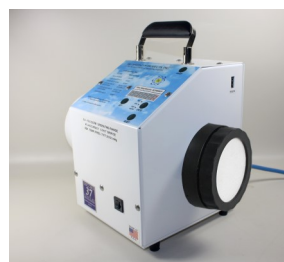
**DF-804DT**



**DF-604DT and DF-60810DT**



**DFHV-1**



**DFHV-1S**

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.

**REV: 08 Sep 2021**

## High Volume Air Sampler Digital Flow Meter Options

### Operator Selectable Options:

Shut off Type	
On Time	0 min to 168 hours
On Volume	0 to $9.99 \times 10^{99}$
RS232 Output Frequency	1/sec, 1/min, 1/6min, 1/hr
Flow Control Value:	Within operating range of air sampler
STP or Ambient Flow Correction	

### Factory Settable Options:

Flow/Volume units	sccm/scc, SLPM/SL, SCFM/SCF or $\text{sm}^3/\text{hr}/\text{sm}^3$
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



## Digital Flow Meter Air Sampling Systems Portable and Fixed Station High Volume Series 100 - 120 VAC

	DFHV-1	DFHV-1S	DF-604DT	DF-60810DT	DF-804DT	DF-PM2.5DT/ DF-PM10DT
Dimensions (L×W×H in) (H x L x W cm)	11 1/16"×9 3/8"×10 3/4" (28,1 × 23,8 × 25,4 cm)	11 × 8 × 10 (26 x 20 x 26)	57.5 × 21.5 × 21.5 (146 × 55 × 55)	57.5 × 21.5 × 21.5 (146 × 55 × 55)	26 × 26 × 16 (66 × 66 × 42)	74 × 28 × 28 (189 × 71 × 71)
Weight lbs. (kg)	13.4 (6.1)	12 (5.5)	98 (44.5)	98 (44.5)	60 (27.2)	138 (62.7)
Maximum Flow CFM (LPM)	*	*	50 CFM (85m <sup>3</sup> /hr)	117 CFM (200m <sup>3</sup> /hr)	50 (141.5)	~100 CFM (~170m <sup>3</sup> /hr)
Maximum Vacuum "H <sub>2</sub> O (kPa)	80 (19.3)	80 (19.3)	90 (20)	90 (20)	80 (20)	90 (20)
Regulator Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Motor H.P.	1	1	1100 watt, Brush-less	1100 watt, Brush-less	800 watt, Brushless	1100 watt, Brushless
Power Requirements (watts)	900	900	1100	1100	800	1100
Operating Temperature °C (°F)	-80 to 40) (14 to 104)	-80 to 40) (14 to 104)	-29* to 50 (-20* to 122)	-29* to 50 (-20* to 122)	-29* to 50 (-20* to 122)	-29* to 50 (-20* to 122)
*Continuous operation only						
Storage Temperature °C (°F)	-18 to 50 (0 to 122)	-18 to 50 (0 to 122)	-35 to 70 (-31 to 156)	-35 to 70 (-31 to 156)	-29 to 70 (-20 to 156)	-35 to 70 (-31 to 156)
Voltage (AC), 1Ph	100-120	100-120	100-120	100-120	100-120	100-120
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
IPX Rating	IPX2	IPX2	IPX 3	IPX3	IPX3	IPX3
Enclosure Rating	Pollution Degree 2	Pollution Degree 2	Pollution Degree 3	Pollution Degree 3	Pollution Degree 3	Pollution Degree 3
Enclosure Protection	Powder Coat Paint	Powder Coat Paint	Powder Coat Paint	Powder Coat Paint	Power Coat Paint	Powder Coat Paint
Noise Level @ 1 meter (Average dB)	73	80	83	83	83	83

\* Flow rate dependent on filter media utilized

## Available Options for High 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)

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### 2GB Secure Digital Card

The SD card is ideally suited to meet the demands of small portable devices that need high capacity flash memory in a very small size. The F&J FlashCard Data Storage Device uses this type of flash memory.



#### Main Features

Flash memory card; 2GB; SD Memory Card

**P/N: 372239**



**P/N: SDDR-199-A20**

### PC FlashCard Reader

The ImageMate 12 in 1 Card Reader/Writer is a Hi-Speed USB 2.0 Multi-card Reader/Writer that connects to your computer's USB 2.0 port. The reader will read CF I, CF II, MS, MS Pro, MMC, SD, SM, MS Duo, xD, MS PRO Duo, miniSD and RS-MMC types of flash memory card.