

F&J SPECIALTY PRODUCTS, INC.

BRUSHLESS AC/DC LOW FLOW AIR SAMPLING SYSTEM — Digital Flowmeter Technology — F&J Model DF-1L-BL-8

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- Long-lasting Nickel Metal Hydride Batteries
- Battery Charging Circuit operable from Line Power Input
- Lightweight — ~7 lbs. (3.2 kg)
- High Flow ~ 1 LPM Maximum
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Battery Life Indicator



GENERAL DESCRIPTION:

F&J Model DF-1L-BL-8 is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 4500 mAH NiMH batteries, (2) line power, or (3) automobile cigarette lighter socket.

The DF-1L-BL-8 is well suited for low flow rate air sampling activities where users do not know whether line power will be available. Typical operating time from on-board batteries is greater than 8 hours when utilizing FP47M glass fiber filter paper.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention.

Typical flow range is 0.2 – 1.0 SLPM (200 - 1000 sccm).

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DF-1L-BL-8 Battery Powered Air Sampler Specifications

Pump Type: Diaphragm high efficiency
Maximum Flowrate: ~ 1.0 LPM

Power Source:
 Internal –
 12VDC Battery Pack
 NiMH; 12VDC/4500 mA
 External –
 Line Power; 100VAC to 250VAC
 Automobile Cigarette Lighter – 12VDC

Battery Charging System:
 Internal System which charges from line Power.

Operating Time on Batteries: ~ 8 hours
Fuse Protection: 2A
Current Draw: 1.0 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable metal

Weight: 7 lbs. (3.2 kg)
Operating Temperature Ranges:
 0° - 122°F
 -18° - 50°C

Dimensions: 9"×10"×10" (23 × 25 × 25 cm)

Display: Bright LED (6 character, 1,2 cm H)

Elapsed Time: DD:HH:MM up to 168 hours

Flow Control:
 Adjustable from keypad between 0.2 – 1.5 LPM

Flow Accuracy: ± 4.0% of Full Scale

Factory Settable Reference T and P

Classical STP	0°C, 1 ATM
Normal T and P	20°C, 1 ATM
Modified Normal T and P	70°F, 1 ATM
Standard Ambient T and P	25°C, 1 ATM

OPTIONS:

- Data Storage Device (P/N: 232FCDS)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

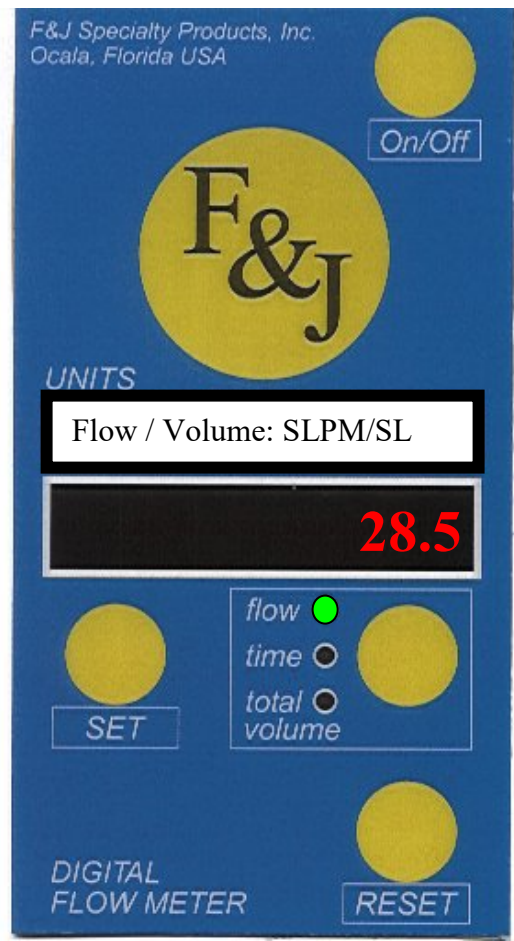
Standard Combination Filter Holders Available:

FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-05P	F&J Model B	2" or 50 mm
FJ-21P	F&J Model C	2" or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2" or 50 mm
FJ-53P	F&J Model M	47 mm

Available Engineering Units for Flow and Volume:

- sccm/scc
- SLPM / SLP
- SCFM / SCF

Digital Flowmeter Keypad/Display



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