

# **F&J SPECIALTY PRODUCTS, INC.**

## **EMERGENCY RESPONSE SAMPLING SYSTEM**

### **12VDC POWERED AIR SAMPLER**

— Digital Flowmeter Technology —  
**F&J Model DF-1L-BL-AC**

#### **NOTABLE FEATURES:**

- State-of-the-Art Electronics
- Operating Modes
  - Line Power (100VAC – 250VAC)
  - Automobile Cigarette Lighter
- Lightweight — ~5.5 lbs. (2.5 kg)
- High Flow ~ 1 LPM Maximum
- Bright LED Display
- Automatic Flow Control Feature
- Flow rate and Volume totalizations displayed are corrected to a factory settable reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume



#### **GENERAL DESCRIPTION:**

F&J Model DF-1L-BL-AC is a lightweight, small footprint brushless, DC voltage powered air sampling system operable from (1) line power, or (2) a 12 VDC power source such as solar panels or other alternative energy sources.

The DF-1L-BL-AC is well suited for alternative energy air sampling activities where users do not know whether line power will be available.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response sampling responsibilities. The set flow rate 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)

**Rev.:** 29 Feb. 2016

# DF-1L-BL-AC AC/DC Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:** ~ 1.0 LPM

**Power Source:**

External –

Line Power; 100VAC to 250VAC

Automobile Cigarette Lighter – 12VDC

**Current Draw:** 1 A maximum

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable metal

**Weight:** 5.5 lbs. (2.5 kg)

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

**Operating Temperature Ranges:**

0° - 40°C

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

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

**Flow Control:**

Adjustable from keypad up to 1.00 SLPM

**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)

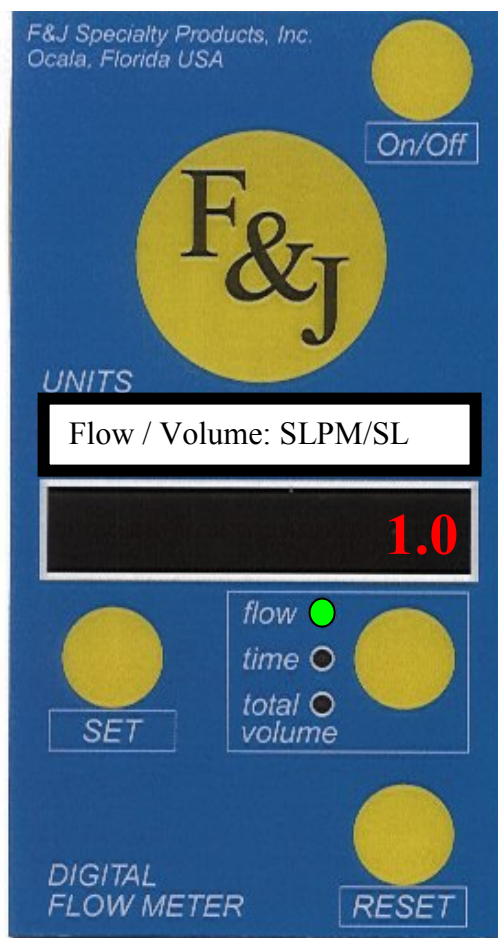
**Standard Combination Filter Holders Available:**

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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