

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

## **EMERGENCY RESPONSE SAMPLING SYSTEM**

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

— Digital Flowmeter Technology —

### **F&J Model DF-40L-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 — 8.6 lbs. (3.9 kg)
- Maximum Flow 35 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-40L-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-40L-8 is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board batteries is approximately 6 hours utilizing 47 mm 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 10-35 SLPM (0.3 -1.2 SCFM).

**Rev.:** 29 Feb. 2016

# DF-40L-8 Battery Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:** Typical 35 LPM with 47 mm glass fiber media (98%DOP efficiency)

**Power Source:**

Internal – 12 VDC Battery Pack

NiMH; 12 VDC/4500 mAh

External –

Line Power; 100 VAC or 250 VAC

Automobile Cigarette Lighter – 12 VDC

**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

**Battery Charging System:**

Internal System which charges from line Power.

**Operating Time on Batteries:**

~ 6 hours w/FP47M glass fiber paper

**Current Draw:** 0.6 A maximum

**Filter Holder Fitting:**

3/8 FNPT quick disconnect

**Handle:** Durable metal

**Weight:** 8.6 lb (3.9 kg)

**Dimensions:** 9.25"×10.2"×9.25" (23.5 × 25.9 × 23.5 cm)

**Average dB:** 69.8

**Operating Temperature:** 0°F to 122°F (-18°C to 50°C)

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

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

**Flow Control:**

Adjustable from keypad between 10-35 LPM

**Flow Accuracy:** ±4.0% of Full Scale

**Factory Settable Reference T and P**

Classical STP 0°C, 760 mmHg

Normal T and P 20°C, 760 mmHg

Modified Normal T and P 70°F, 760 mmHg

Standard Ambient T and P 25°C, 760 mmHg

**OPTIONS:**

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

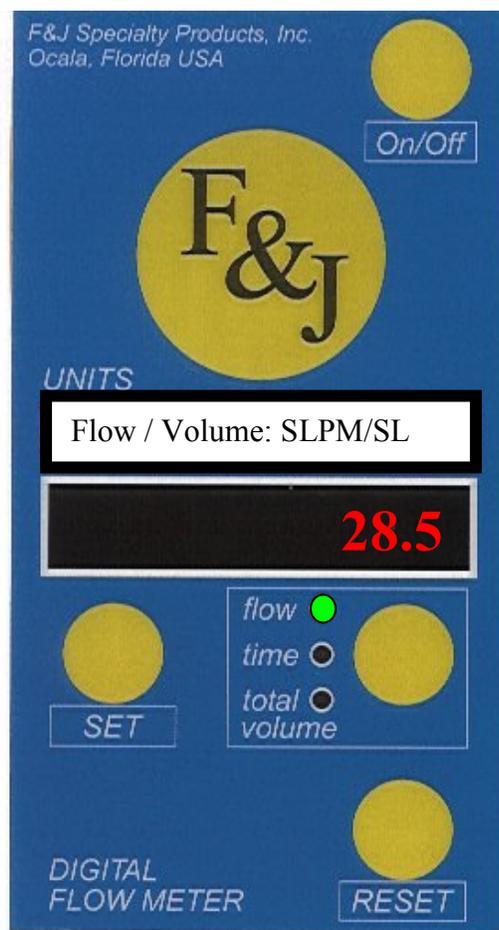
**Available Engineering Units for Flow and Volume:**

SLPM / SLP

SCFM / SCF

SCMH / SCM

**Digital Flow Meter Keypad/Display**



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