

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM 12VDC POWERED AIR SAMPLER

Digital Flowmeter Technology —
 F&J Model DF-75L-Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC 250VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- ➤ Long-lasting Lithium ion battery
- Battery Charging Circuit operable from Line Power Input
- ➤ Lightweight 17.5 lbs. (8.0 kg)
- Maximum Flow: 65 to 75 LPM; typical
- 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-75L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 14.8 VDC; 20 Ah Lithium ion battery, (2) line power, or (3) automobile cigarette lighter socket.

The DF-75L-Li 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 battery is approximately ~ 6 - 8 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 30-75 SLPM (1.1 -2.6 SCFM).

Rev.: 29 Feb. 2016



DF-75L-Li Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Standard Combination Filter Holders Available:

Maximum Flowrate:

PARTICULATE FILTER CHARCOAL > 75 LPM – Typical w/47 mm FP47M glass fiber media HOLDER **CARTRIDGE PAPER** ~100 LPM Free Air Flow MODEL **DIMENSIONS DIAMETER** 2" or 50 mm FJ-05P F&J Model B **Power Source:** 2" or 50 mm FJ-21P F&J Model C Internal – 47 mm FJ-35P F&J Model B 14.8 VDC Battery Pack 47 mm FJ-46P F&J Model C Lithium Ion; 20 Ah FJ-51P F&J Model M 2" or 50 mm External -F&J Model M 47 mm FJ-53P

Line Power; 100VAC or 250VAC Automobile Cigarette Lighter – 12VDC

Battery Charging System:

Internal System which charges from line Power.

Operating Time on Batteries:

6-8 hours @ 56 LPM w/FP-47M glass fiber media

Current Draw: 3 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable metal

Weight: 15.3 lbs. (7 kg)

Dimensions: $8"\times9"\times12"$ ($20\times23\times30$ cm)

Average dB: 62.8

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 30-75 LPM

Flow Accuracy: $\pm 4.0\%$ 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: 232FCDSD)

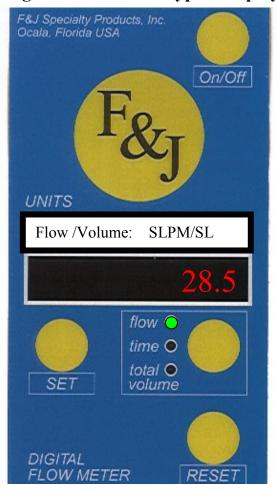
➤ 2 GB Secure Digital Card (P/N: 372239)

Flash card Reader (P/N: SDDR-199-A20)

Available Engineering Units for Flow and Volume:

sccm/ scc SLPM / SLP SCFM / SCF SCMH / SCM

Digital Flowmeter Keypad/Display



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