



F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

— Digital Flowmeter Technology —

F&J Model DF-12L-Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- Long-lasting Lithium ion Batteries
- Battery Charging Circuit operable from Line Power Input
- Lightweight — ~13 lbs. (5,9 kg)
- Maximum Flow 10 to 12 LPM Maximum; 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-12L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah Li Ion batteries, (2) line power, or (3) external 12VDC source.

The DF-12L-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 batteries is approximately 10-12 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 air sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention. The air sampler is contained in a lightweight small dimensioned metal instrument enclosure. Its large rugged handle can carry the unit very easily.

Typical flow range is 3 – 12 SLPM (0.1 –0.42 SCFM).

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DF-12L-Li Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 12 LPM typical
with 47 mm glass fiber media

Power Source:

Internal – Li Ion; 12VDC/20 Ah Battery Pack

External –

Line Power; 100VAC or 250VAC

Vehicle Cigarette Lighter – 12VDC

Battery Charging System:

Internal System which charges from line power.

Operating Time on Batteries: ~ 10-12 hours

Current Draw: 0.6 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 13 lbs. (5,9 kg)

Dimensions: 8”L x 9”W x 12” H (20 x 23 x 30 cm)

Operating Temperature Ranges:

Discharge: 0°F to 122°F (-18°C to 50°C)

Charge: 32°F to 113°F (0°C to 45°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 3 - 12 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 D)
- 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
- SCMH / SCM

Digital Flowmeter Keypad/Display

