

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

— Digital Flowmeter Technology —
F&J Model DF-AB-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-AB-12L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah lithium ion battery, (2) line power, or (3) vehicle cigarette lighter socket.

The DF-AB-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 Lithium ion batteries is approximately 25hours 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. The air sampler is contained in a lightweight small dimensioned enclosure which is water tight. The unit can be carried very easily by its large, rugged plastic handle.

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

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DF-AB-12L-Li Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Standard Combination Filter Holders Available:

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

Power Source:

Internal – Lithium Ion; 14.8 VDC /
20 Ah Battery Pack

External –

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

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.

Available Engineering Units for Flow and Volume:

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

Operating Time on Batteries: ~ 8-12 hours

Current Draw: 0.6 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Digital Flowmeter Keypad/Display

Handle: Durable plastic

Weight: 13 lbs. (5,9 kg)

Dimensions: 14.5"L x 8"W x 10"H (36,8 x 20,3 x 25 4 cm)

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

Timer Accuracy: 0.1%

Flow Control:

Adjustable from keypad between 3 - 12 LPM

Flow Accuracy: ± 4.0% of Full Scale

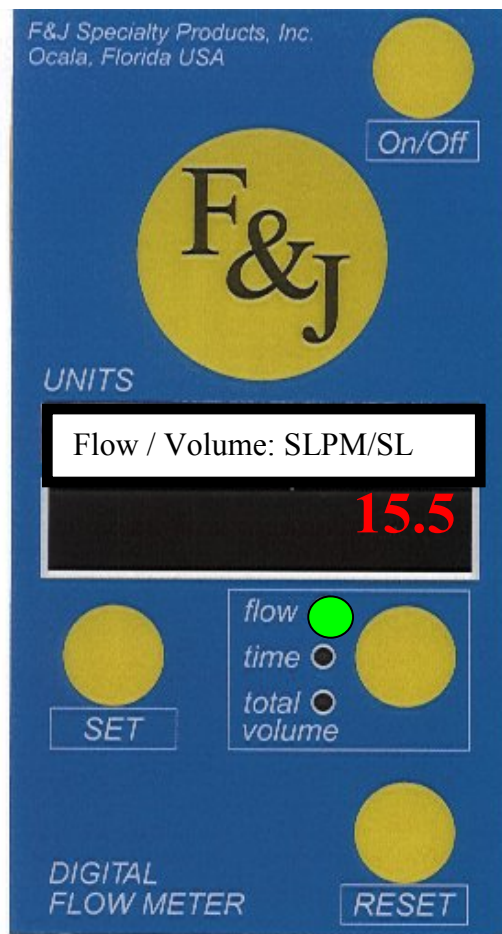
Volume Accuracy: ± 3%

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)



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