

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

— Digital Flowmeter Technology —

F&J Model DF-AB-12L

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 — ~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 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) vehicle cigarette lighter socket.

The DF-AB-12L 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. 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 Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 12 LPM typical
with 47 mm glass fiber media (98% DOP efficiency)

Power Source:

Internal –

12VDC Battery Pack
NiMH; 12VDC/4500 mAh

External –

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

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 plastic

Weight: 13 lbs. (5,9 kg)

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

Operating Temperature Ranges:

Discharge: 0°F-122°F(-18°C-50°C)
Charge: 32°F-113°F(0°C-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)
- 1 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

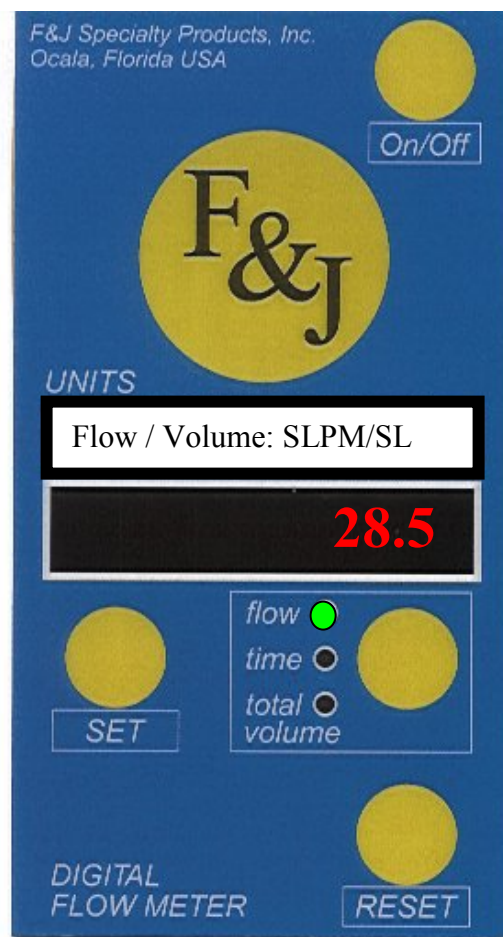
Standard Combination Filter Holders Available:

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:

scm / sec
SLPM / SLP
SCFM / SCF
SCMH / SCM

Digital Flowmeter Keypad/Display



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Front View



View of Inside



Side View



Cord Storage

Cigarette Lighter Cord stores in
Compartment accessible from outside.



Air Sampler on window bracket



Connection to vehicle cigarette lighter
for 12VDC or sampling applications