

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

— Digital Flowmeter Technology —
F&J Model DF-AB-12L-AC

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - Automobile Cigarette Lighter
- 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



GENERAL DESCRIPTION:

F&J Model DF-AB-12L-AC is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) line power or (2) a 12-15 VDC power source such as solar panels or other alternative energy sources..

The DF-AB-12L-AC is well suited for alternative energy air sampling activities where users do not know whether line power will be available. The unit may be operated from solar power or wind power source through either the AC input or DC input.

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).

Rev.: 29 Feb. 2016

DF-AB-12L-AC 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:
Line Power; 100VAC or 250VAC
Vehicle Cigarette Lighter – 12VDC

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

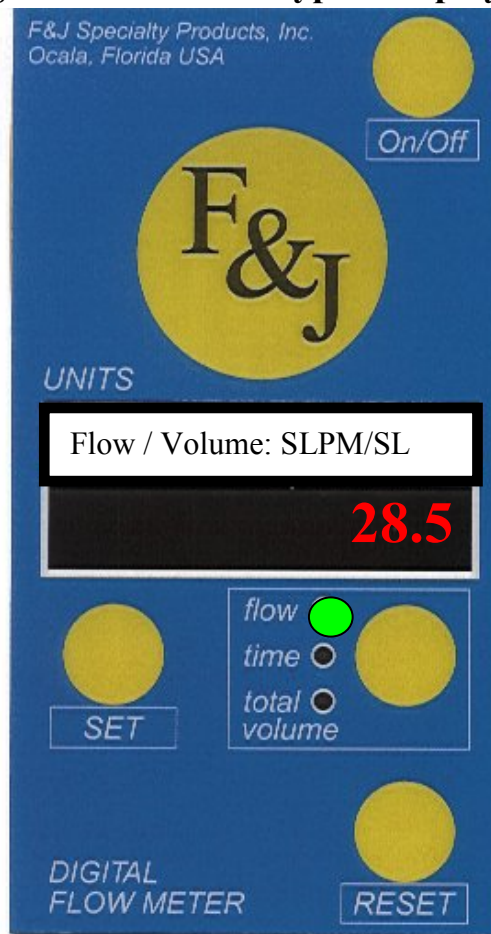
Standard Combination Filter Holders Available:

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:

sccm / scc
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