

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

— Digital Flowmeter Technology —
F&J Model DF-AB-40L-Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250 VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- Long-lasting 20 Ah Lithium ion Battery Pack
- Internal battery charging system operable from line power input
- Lightweight — ~15 lbs. (6.8 kg)
- Maximum Flow 30 to 35 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-40L-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) auxiliary DC connector (12 – 15 VDC)

The DF-AB-40L-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 18 -20 hours utilizing FP47M 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 10 - 35 SLPM (0.3 -1.24 SCFM).

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DF-AB-40L-Li Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 35 LPM typical
with 47 mm glass fiber media

Power Source:

Internal – Li Ion; 12VDC/20 Ah Battery Pack
External – Line Power; 100VAC to 240VAC
Auxiliary port – 12 to 15 VDC

Battery Charging System:

Internal system which charges from line power.

Operating Time on Batteries: ~ 18-20 hours

Current Draw: 0.6 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 15 lbs. (6.8 kg)

Dimensions: 17”L × 10.4”W × 13” H (43.2 × 26.4 × 33 cm)

Average Db: 67.5

Operating Temperature Range: 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 10-35 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)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

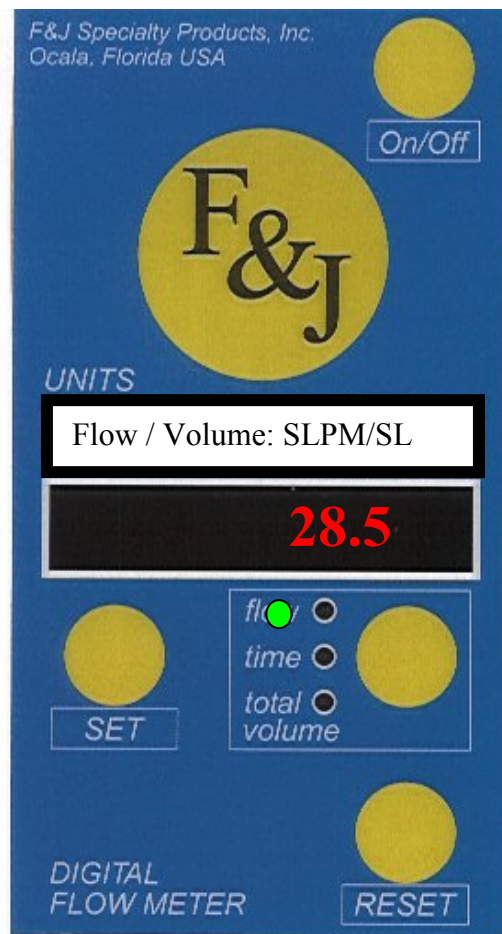
Standard Combination Filter Holders Available:

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 Flow Meter 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