



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

EMERGENCY RESPONSE AIR SAMPLING SYSTEM DIGITAL FLOW METER TECHNOLOGY F&J MODEL DF-ABM-40L-10Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - Automobile Cigarette Lighter
 - LIBATBANK-12V
 - On-board 10 Ah LiFePO₄ rechargeable battery
- Lightweight — 15.5 lbs. (7.0 kg)
- Maximum Flow 35 to 40 SLPM 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
- Brushless 12 VDC motor
- Data Download via Bluetooth with Optional Bluetooth Dongle for PC Device



Shown with optional filter holder

NOTABLE FEATURES:

F&J Model DF-ABM-40L-10Li is a military grade lightweight, small footprint, DC voltage powered air sampling system operable from (1) line power, (2) an on-board 10 Ah LiFePO₄ battery, (3) an external 12-15 VDC power source, or (4) from the F&J LIBATBANK-12V external DC power source.

The DF-ABM-40L-10Li is well suited for alternative energy air sampling activities and where users do not know whether line power will be available. The unit may be operated from the on-board lithium ion battery, or solar power, or a 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 rugged, metal, small dimensioned enclosure which is water tight. The unit can be carried very easily by its metal handle.

Typical flow range is 5 - 40 SLPM (0.18 –1.41 SCFM).

The air sampler is also equipped with internal data storage that allows the user to download the sampling data as a .csv file for easy data analysis.

REV: 11 May 2023

DF-ABM-40-10Li AC/DC Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Motor: Brushless 12 VDC

Maximum Flowrate: 35 LPM typical
with 47 mm glass fiber media (98% DOP efficiency)

Power Source:

Line Power; 100VAC or 250VAC
On-board LiFePO₄ battery (10 Ah)
Vehicle Cigarette Lighter – 12VDC
LIBATBANK-12V

Current Draw: 1.5 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Steel

Handle: Durable metal

Weight: 15.5 lbs. (7.0 kg)

Dimensions: 13.5 "L × 6.13"W × 7.75 " H
(34.29×15.57×19.69 cm)

Operating Temperature Range:

18°F-122°F (-10°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 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:

- Bluetooth Dongle for PC Device

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

