

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

AC or DC POWERED AIR SAMPLER

— Digital Flowmeter Technology —

F&J Model DF-40L-AC

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - 12VDC External Source
- Lightweight — ~9 lbs. (4 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



GENERAL DESCRIPTION:

F&J Model DF-40L-AC is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) line power, or, (2) an external 12VDC source such as solar panels.

The DF-40L-AC is well suited for remote area air sampling activities where users do not have line power available.

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.

Typical flow range is 10-35 SLPM (0.3 -1.2 SCFM).

Rev.: 29 Feb. 2016

DF-40L-AC AC/DC Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

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

Power Source:
External –
Line Power; 100VAC or 230VAC
Automobile Cigarette Lighter – 12VDC

Current Draw: 0.6 A maximum

Filter Holder Fitting:
3/8 FNPT quick disconnect

Handle: Durable metal

Weight: ~9 lbs. (4 kg)

Dimensions: 8"×6"×8" (20 × 15 × 20 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

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)D
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

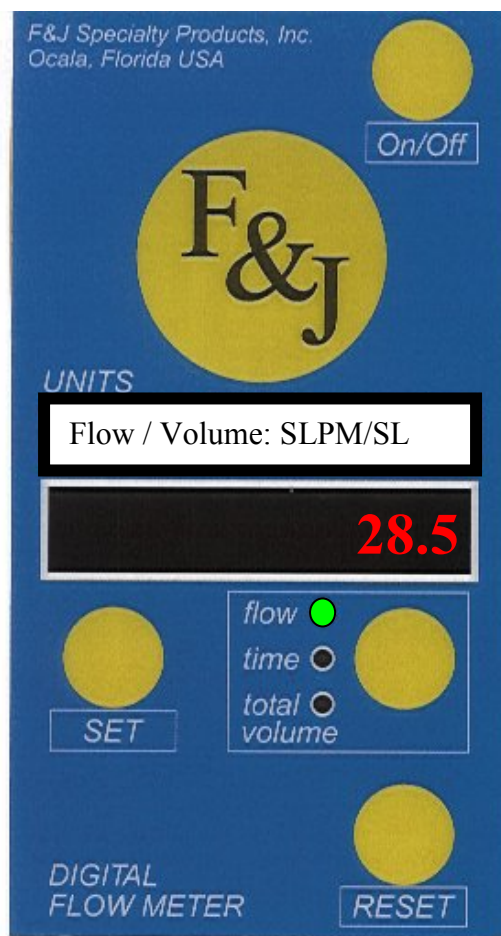
Standard Combination Filter Holders Available:

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 Flowmeter Keypad/Display



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