

EMERGENCY RESPONSE SAMPLING SYSTEM Digital Flowmeter Technology F&J Model DF-40L-400-AC

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
— Line Power (100VAC – 250 VAC)
- Lightweight — 12.25 lbs. (5.5 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



Displayed with Optional Rain Hood and Filter Holder

GENERAL DESCRIPTION:

F&J Model DF-40L-400-AC is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) line power, or (2) auxiliary DC connector (12 – 15 VDC)

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response or environmental 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).



Outdoor use configuration



Indoor use configuration



Air Sampler Inside View

AC/DC Air Samplers

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 35 LPM typical
with FP-47M glass fiber media

Power Source:
External – Line Power; 100VAC to 240VAC
External DC – 12–15VDC

Current Draw: 0.6 A maximum

Filter Holder Fitting: 3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 12.25 lbs. (5.5 kg)

Dimensions: 16.8”L × 9.0”W × 14.0”H
(42.7 × 22.9 × 35.6 cm)

Average Noise Level: 67.5 Db @ 1m

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 D)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)
- Combination Filter Holder with Rain Hood
 - 47mm Particulate / C Geometry – FJ-47RH
 - 50mm Particulate / C Geometry – FJ-50RH
- Battery Bank (P/N: BATBANK-12V)

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

