

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

EMERGENCY RESPONSE SAMPLING SYSTEM AC/DC POWERED AIR SAMPLER — Digital Flowmeter Technology — F&J Model DFRV-40L-AC

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - 12VDC External Source
- Lightweight — ~12 lbs. (5.4 kg)
- Maximum Flow 10 to 40 LPM with fiber glass FP47M filter media
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options)
- Auto shut-off on time or volume
- Brushless Motor



Shown with optional filter holder

GENERAL DESCRIPTION:

F&J Model DFRV-40L-AC is a lightweight, small footprint, brushless motor powered air sampling system operable from (1) line power, or (3) an external 12 VDC source such as a 12 VDC battery system.

The DFRV-40L-AC is well suited for indoor air sampling from line power or for remote area air sampling activities where users do have line power available.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response, or remote and unattended sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention.

Typical flow range is 10 - 40 SLPM (0.35 – 1.41 SCFM) [0.6 Sm³/hr – 2.4 Sm³/hr]. This flow rate varies by the filter media utilized. If pressure drop across the filter media is not significant lower flow will not be achievable without bypass valve option.

Rev.: 17 May 2023

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

Pump Type: Mini rotary vane vacuum pump

Motor: Brushless motor 12 VDC

Maximum Flowrate: Typical 35 - 40 SLPM
with 47 mm glass fiber media (98%DOP efficiency)

Power Source:

External -
Line Power; 100VAC or 250VAC
Automobile Cigarette Lighter – 12VDC

Current Draw: 4.0 A maximum

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable metal

Weight: 10 lbs. (4.5 kg)

Dimensions: 8”×6”×8” (20 × 15 × 20 cm)

Operating Temperature Range:

14°F-122°F (-10°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 10-40 LPM

Flow Accuracy: ± 4.0% of Full Scale

Factory Settable Reference T and P

Classical STP	0°C, 760 mm Hg
Normal T and P	20°C, 760 mm Hg
Modified Normal T and P	21.1°C, 760 mm Hg
Standard Ambient T and P	25°C, 760 mm Hg

OPTIONS:

- Data Storage Device (P/N: 232FCDS)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)
- Bypass Needle Valve

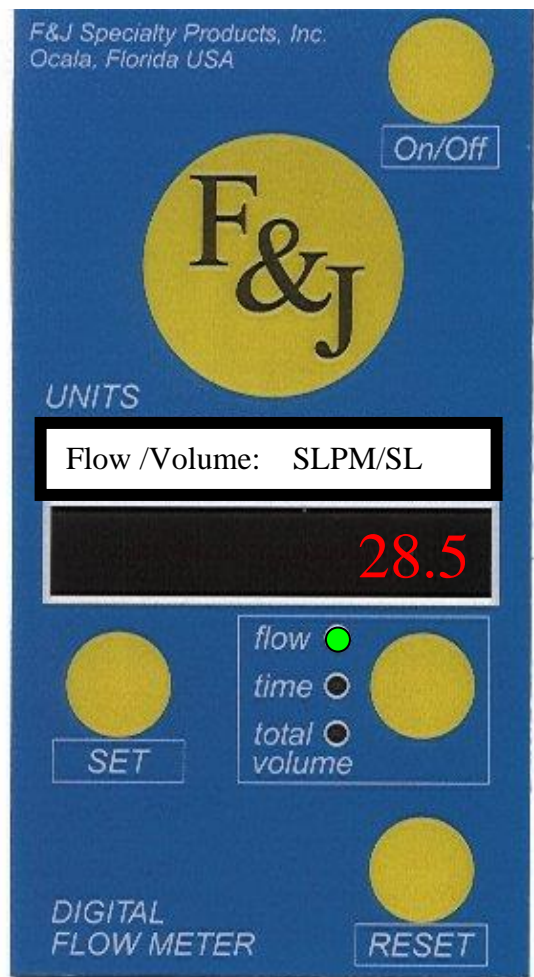
Standard Combination Filter Holders Available:

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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