

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-12Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - 12 Ah LiFePO₄ Battery
- Lightweight — ~12 lbs. (5.4 kg)
- Maximum Flow 35 to 40 LPM with fiber glass 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
- Battery Life Indicator
- Long-lasting Lithium FePO₄ Battery (>2000 discharge/charge cycles)
- Brushless motor (12 VDC)



Shown with optional filter holder

GENERAL DESCRIPTION:

F&J Model DFRV-40L-12Li is a lightweight, small footprint, brushless DC motor powered air sampling system operable from (1) on-board 5Ah Lithium FePO₄ batteries, or (2) line power.

The DFRV-40L-12Li 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 8 - 40 SLPM. 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.

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

Rev. 10 April 2024

DFRV-40L-12Li AC/DC Powered Air Sampler Specifications

Pump Type: Mini rotary vane vacuum pump

Motor: Brushless motor 12 VDC

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

Motor: Brushless motor 12 VDC

Power Source:

External - Line Power; 100VAC or 250VAC

Internal - 12 Ah LiFePO₄ Battery

Operating time on batteries: Depends on filter
Media utilized and operating flow rate

Current Draw: 5.0 A maximum

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable metal

Weight: 12 lbs. (5.4 kg)

Dimensions: 10.1" L × 10.3" W × 8.3" H
(25.6 × 26.2 × 21.1 cm)

Operating Temperature Range:

14°F-122°F (-10°C to 50°C)

Display: Bright OLED (4 line x 32 character)

Elapsed Time: DD:HH:MM up to 168 hours

Flow Control:

Adjustable from keypad between 8-40 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:

- Bluetooth Dongle for PC Device (P/N: BTDG)

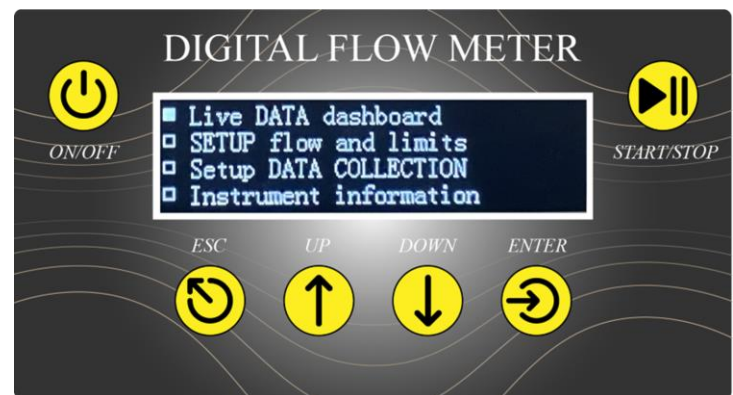
Standard Combination Filter Holders Available:

FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-19	F&J Model C	2" or 50 mm
FJ-27	F&J Model B	2" or 50 mm
FJ-34	F&J Model C	47 mm
FJ-39	F&J Model B	47 mm
FJ-52	F&J Model M	2" or 50 mm
FJ-54	F&J Model M	47 mm

Available Engineering Units for Flow and Volume:

SLPM / SLP
SCFM / SCF
SCMH / SCM

Digital Flowmeter Keypad/Display



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