

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

12VDC POWERED AIR SAMPLER

F&J Model DF-20L-8

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- Long-lasting Nickel Metal Hydride Batteries
- Battery Charging Circuit operable from Line Power Input
- Lightweight — ~9 lbs. (4 kg)
- High Flow — 20LPM Maximum
- 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
- Battery Life Indicator



GENERAL DESCRIPTION:

F&J Model DF-20L-8 is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 4500 mAH NiMH batteries, (2) line power, or (3) automobile cigarette lighter socket.

The DF-20L-8 is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board batteries is greater than 8 hours utilizing 47 mm glass fiber filter paper.

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 4-20 SLPM (0.14-0.71 CFM).

Rev.: 29 Feb. 2016

DF-20L-8 Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 20 LPM

Power Source:

Internal – NiMH; 12VDC/4500 mA AH Battery Pack

External –

Line Power; 100VAC to 250VAC

Automobile Cigarette Lighter – 12VDC

Battery Charging System:

Internal System which charges from line Power.

Operating Time on Batteries: > 8 hours

Current Draw: 0.2 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 4-20 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)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

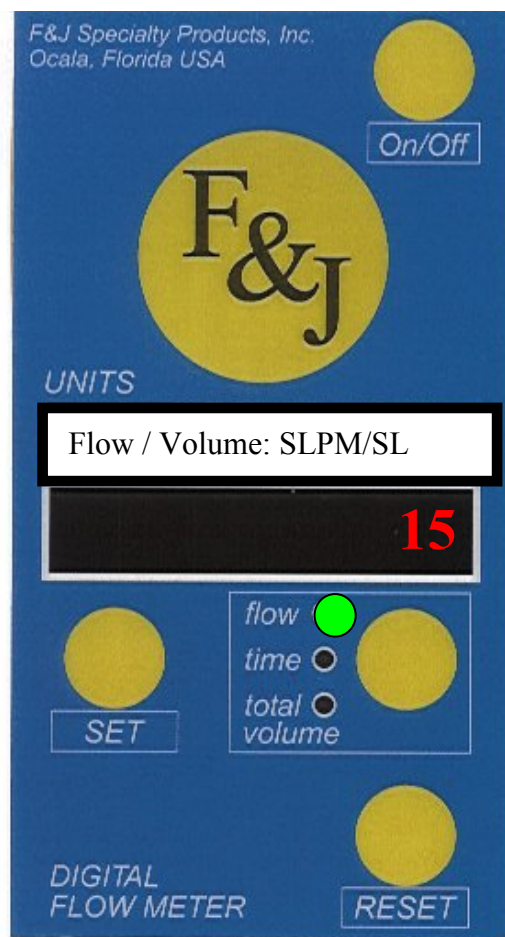
Standard Combination Filter Holders Available:

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

Digital Flowmeter Keypad/Display



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