

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

12VDC POWERED AIR SAMPLER

— Digital Flowmeter Technology —

F&J Model DF-20L-AC

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC – 250VAC)
 - 12VDC External Source
- Lightweight — ~9 lbs. (4 kg)
- Maximum Flow 15 to 20 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)
- Auto shut-off on time or volume



GENERAL DESCRIPTION:

F&J Model DF-20L-AC is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) line power or (2) an 12-15 12VDC power source such as solar panels or other alternative energy sources.

The DF-20L-AC is well suited for alternative energy air sampling activities where users do have line power available. The unit may be operated from solar power or wind power source through either the AC input or DC input.

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 5 - 20 SLPM (0.18 –0.71 SCFM).

Rev.: 29 Feb. 2016

DF-20L-AC AC/DC Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: Typical 20 LPM
with 47 mm glass fiber media (98%DOP efficiency)

Power Source:
External –
Line Power; 100VAC or 250VAC
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 Range:
0°F-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 5-20 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)
- 1 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

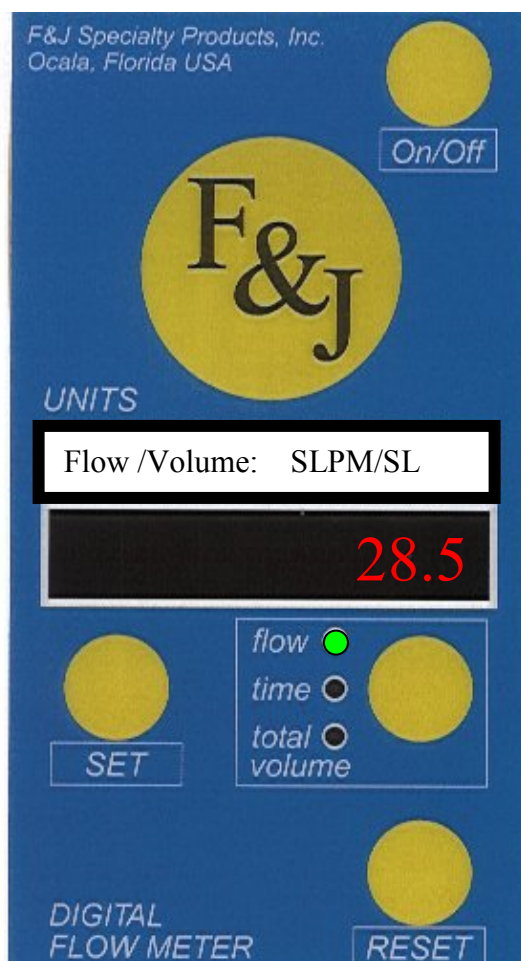
Standard Combination Filter Holders Available:

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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