

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

Digital Flowmeter Technology —
 F&J Model DF-AB-20L-AC

NOTABLE FEATURES:

- > State-of-the-Art Electronics
- Operating Modes
 - Line Power (110VAC 250VAC)
 - Automobile Cigarette Lighter
- ightharpoonup Lightweight ~13 lbs. (5,9 kg)
- ➤ Maximum Flow 5 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 available)
- > Auto shut-off on time or volume







GENERAL DESCRIPTION:

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

The DF-AB-20L-AC is well suited for alternative energy air sampling activities where users do not know whether line power will be 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 air 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 watertight. Its large rugged plastic handle can carry the unit very easily.

Typical flow range is 5 - 20 SLPM (0.18 –0.71 SCFM).

Rev.: 26 Jan 2010

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

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 20 LPM typical

with 47 mm glass fiber media (98% DOP

efficiency)

Power Source:

Line Power; 110VAC or 250VAC Vehicle Cigarette Lighter – 12VDC

Current Draw: 0.6 A maximum

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 13 lbs. (5,9 kg)

Dimensions: 14.5"L \times 8"W \times 10" H

 $(36.8 \times 20.3 \times 25.4 \text{ cm})$

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 5 - 20 LPM

Flow Accuracy: $\pm 4\%$ 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: 232FCDSD)

➤ 1 GB Secure Digital Card (P/N: 372239)

Flash card Reader (P/N: SDDR-199-A20)

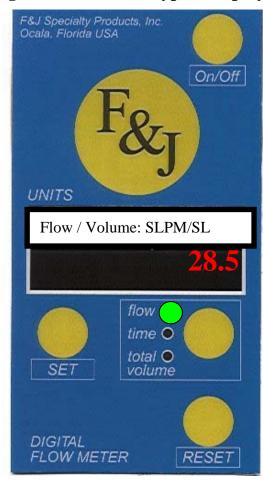
Standard Combination Filter Holders Available:

FILTER HOLDER	CHARCOAL CARTRIDGE	PARTICULATE PAPER
MODEL	DIMENSIONS	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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Front View



Air Sampler on window bracket



View of Inside



Side View

Cord Storage

Cigarette Lighter Cord stores in Compartment accessible from outside.



Connection to vehicle cigarette lighter for 12VDCor sampling applications

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