

F&J SPECIALTY PRODUCTS, INC.

EMERGENCY RESPONSE SAMPLING SYSTEM

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

NOTABLE FEATURES:

- > State-of-the-Art Electronics
- Operating Modes
 - Line Power (100VAC 250VAC)
 - On-Board Batteries
 - Automobile Cigarette Lighter
- ➤ Long-lasting Lithium ion batteries
- ➤ Battery charging circuit operable from line power input
- \triangleright Lightweight ~13 lbs. (5,9 kg)
- > Maximum Flow 17 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
- ➤ Battery Life Indicator

GENERAL DESCRIPTION:

F&J Model DF-AB-20L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah lithium ion battery, (2) line power, or (3) vehicle cigarette lighter socket.

The DF-AB-20L-Li 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 Lithium ion batteries is approximately 25hours 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. The air sampler is contained in a lightweight small dimensioned enclosure which is water tight. The unit can be carried very easily by its large, rugged plastic handle.

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

Rev.: 29 Feb. 2016



DF-AB-20L-Li Battery Powered Air Sampler Specifications

Pump Type: Dual diaphragm high efficiency

Maximum Flowrate: 17-20 LPM typical with 47 mm glass fiber media

Power Source:

Internal – Li ion; 14.8 VDC/20 Ah Battery Pack

External –

Line Power; 100VAC or 250VAC Vehicle Cigarette Lighter – 12VDC

Battery Charging System:

Internal system which charges from line power.

Operating Time on Batteries: ~ 25 hours

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 × 8"W × 10" H

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

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

Timer Accuracy: 0.1%

Flow Control:

Adjustable from keypad between 5 - 20 LPM

Flow Accuracy: $\pm 4.0\%$ of Full Scale

Volume Accuracy: $\pm 3\%$

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)

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

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

Available:

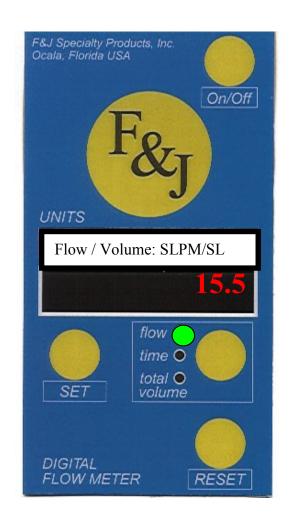
Standard Combination Filter Holders

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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