



F&J SPECIALTY PRODUCTS, INC.

F&J ELITE DIGITAL LIGHT (EDL) AIR SAMPLER

Model DF-EDL-300W-HT

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Lightweight: ~18 lbs. (8.2 kg)
- Powerful: Flow rate to 300 LPM
- Very low maintenance
- Automatic Flow Control
- Operator selectable Ambient or Reference flow
T and P Conditions
- Auto shut-off on time or volume
- RS232 Communication port
- Brushless motor
- Operation in high ambient temperature



“Lightweight: ~ 18 lbs.”

GENERAL DESCRIPTION:

F&J Model DF-EDL-300W-HT is a powerful small foot print light weight AC/DC powered air sampling system operable from (1) line power or (2) an optional 24VDC external power source. This powerful air sampler is the lightest weight low volume air sampler available having similar flow rate capacity.

The DF-EDL-300W-HT air sampler is well suited for various types of air sampling application such as REMP, plant emissions and work area monitoring programs. It can also be utilized in remote air sampling applications powered from solar panels or wind turbines.

The F&J Digital Flowmeter technology provides maximum flexibility, flow rate normalization, automatic flow control and opportunities for control by a PC device through the RS232 communication port.

The typical operating flow range is 30 - 300 SLPM (1.1 – 10.6 SCFM). Actual flow range implemented will depend the filter(s) utilized by the customer.

Rev.: 19 April 2018

DF-EDL-300W-HT AC/DC Air Sampler Specifications

Pump Type: Centrifugal blower

Maximum Flowrate:

290 LPM - Typical w/8"X10" 5211810 glass fiber media

300+ LPM – Free air flow capacity

Power Source:

Line Power; 100VAC to 125VAC
External DC Source – 24VDC (option)

Maximum Current Draw: 16 A maximum

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 18 lbs. (8.2 kg)

Installation Category: Pollution Degree 2

Enclosure Rating: IPX2

Dimensions: 10" × 11" × 14" (26 × 28 × 36 cm)

Operating Temperature Range:

14°F to 122°F (-10°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 30-270 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 D)
- 2+ GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)
- Optional 24VDC connector (P/N: 24VDCOPT)
- Ruggedized Cellular Phone System (P/N: CASRPS-DFM)

Standard Combination Filter Holders

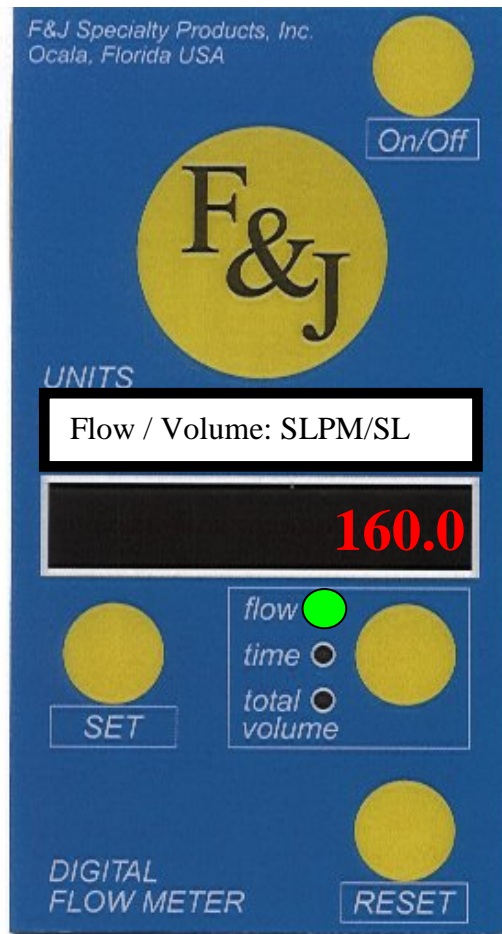
Available:

| 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
SCMM/SCM

Digital Flowmeter Keypad/Display



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DF-EDL-300W AC/DC Air Sampler Specifications

Typical Maximum Flow Rates for Various Filter Media Combinations

| Filter Media | Flow Rate (SCFM) | Flow Rate (SLPM) | Media D.P.(“Hg) | Media D.P.(“H ₂ O) |
|---------------|------------------|------------------|-----------------|-------------------------------|
| FP47 | 4.91 | 140 | 6.2 | 84.0 |
| FP47M | 7.91 | 224 | 4.3 | 58.8 |
| FP47M2 | 10.4 | 296 | 3.0 | 40.2 |
| FP47 & TE2C | 3.71 | 105 | 6.9 | 93.5 |
| FP47M & TE2C | 5.47 | 155 | 6.1 | 83.0 |
| FP47M & TE3C | 5.90 | 167 | 6.6 | 90.0 |
| FP47M2 & TE1C | 7.81 | 221.1 | 3.8 | 51.40 |
| FP20M | 8.25 | 233.7 | 3.6 | 48.9 |
| FP20M & TE2C | 5.68 | 160.8 | 5.7 | 77.8 |
| FP20M & TE3C | 6.69 | 189.5 | 4.8 | 64.8 |
| FP40M | 10.47 | 390 | 1.9 | 25.09 |

