



F&J SPECIALTY PRODUCTS, INC.

The nucleus of quality air monitoring programs

F&J ELITE DIGITAL LIGHT (EDL) AIR SAMPLER Model GAS-EDL-HPE

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Lightweight: ~16 lbs. (7.26 kg)
- Powerful: Flow rate to 170 LPM
- Very low maintenance
- Automatic Flow Control
- Precision machined DP flow sensor
- Vacuum Fluorescent Display (VFD) 4 line x 24 character
- Flow rate accuracy: $\pm 3\%$ Full Scale
- Auto zero calibration feature of flow sensor
- Multiple operator selectable data storage and transmission frequency rates
- Operator selectable engineering units and reference temperature and pressure valves
- Optional Isokinetic Sampling mode configuration
- Auto shut-off on time or volume
- Dual RS232 Communication port
- Brushless motor
- Easily replaceable HEPA filters
- Optional Vertical Mount for Filter Holders
- Optional 24VDC input for external DC power operation



“Lightweight: ~ 7.3 kgs (16 lbs.)”

GENERAL DESCRIPTION:

F&J Model GAS-EDL-HPE 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 GAS-EDL-HPE air sampler is well suited for various types of air sampling applications such as REMP, plant emissions and work area monitoring programs. The unit is also equipped with two replaceable HEPA filters that filter the cooling air. It can be utilized in remote air sampling applications powered from solar panels or wind turbines. The Global Air Sampler software provides the ultimate in end user customization including operator selectable alarm settings, reference T and P values and engineering units.

The F&J Global Air Sampler technology provides maximum flexibility, flow rate normalization, automatic flow control and opportunities for control by a PC device through the RS232 or USB communication ports.

The typical operating flow range is 20 - 170 SLPM (0.7 – 6 SCFM). The actual flow range implemented will depend on the filter(s) utilized by the customer.

- * *All pictures are being used for illustrative purposes only. Actual product may vary slightly.*
- * *Specifications, availability and components are subject to change without notice.*

GAS-EDL-HPE AC/DC Air Sampler Specifications

Pump Type: Centrifugal blower

Maximum Flowrate:

140 LPM - Typical w/47 mm FP47M glass fiber media

170+ LPM – Free air flow capacity

Power Source:

Line Power; 220VAC to 240VAC

External DC Source – 24VDC (option)

Maximum Current Draw: 4 A maximum on line power
10 A maximum on 24 VDC

Filter Holder Fitting:

3/8 FNPT quick disconnect

Handle: Durable plastic

Weight: 16 lbs. (7.26 kg)

Installation Category: Pollution Degree 2

Enclosure Rating: IPX2

Dimensions: 12.5" × 11" × 14" (32 × 28 × 36 cm)

Average dB: 74.6

Operating Temperature Range:

0°F to 122°F (-17°C to 50°C)

Display: VFD, 4 x 24 characters

Operator Selectable Features

Language Options: English

Sampling Mode: Volumetric Flow or Mass Flow

Gas Type: Air, O₂, N₂, H₂, CO, CO₂, C₃H₆, He, NH₃

Engineering Units

Volumetric Flow: sccm, SLPM, SCFM, sm³/min, sm³/hr

Mass Flow: kg/hr, g/min, 1 lbs/hr

Temperature: °C, °F

Pressure: In Hg, mm Hg, bar, mbar, atm, kPa, hPa

Reference T and P

Reference T: 0°C, 15°C, 20°C, 21.1°C (70°F), 25°C

Reference P: 101.325 kPa (760 mm Hg), 100 kPa (1 bar)

RS232 Data Output Frequency: 1 sec, 1 min, 10 min, 20 min, 30 min, 1 hr

Data Storage Frequency: 1 min, 10 min, 20 min, 30 min, 1 hr

Operating Mode: Continuous, Periodic

Periodic Sampling Options: 1 hr. (12 five minute periods), or weekly (24 one hour periods for 7 days)

Ending Mode: By time, By volume

Operator Selectable Passwords: 2 levels

Date and Time Setup: Input of real time and date

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

Flow Control:

Adjustable from keypad between 20-170 LPM

Flow Accuracy: ±3.0% of Full Scale

Communication Interface: Dual RS-232

Optional Items:

- Air Sampler Data Acquisition Program
P/N: GASdaq
- Isokinetic sampling mode configuration
P/N: ISOKOPT
- Configuration for external 24 VDC input

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