



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

F&J ELITE DIGITAL LIGHT (EDL) GLOBAL AIR SAMPLING SYSTEM

Model GAS-EDL-500-AC

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Lightweight: 34 lbs. (15.5 kg)
- Powerful: Flow rate to 130 LPM
- Very low maintenance
- Automatic Flow Control
- Precision machined DP flow sensor
- Vacuum Fluorescent Display (VFD); 4 line × 24 characters
- Dual RS-232 communication ports
- Flow rate accuracy: ±3.0% Full Scale
- Auto zero calibration feature of flow sensor
- Multiple operator selectable data storage and data transmission frequency rates
- Operator selectable engineering units and Reference temperature and pressure values
- Brushless motor
- Optional 24VDC input for external DC power operation



GENERAL DESCRIPTION:

F&J Model GAS-EDL-500-AC is a powerful portable AC/DC powered air sampling system operable from (1) line power, or (2) an optional a 24VDC external power source.

This powerful unit is a low volume air sampler enclosed in a solid wall, strong, water tight enclosure. It has double throw latches for easy access with three comfortable rubber over-molded handles and a retractable extension handle with strong polyurethane wheels for easy transport.

The GAS-EDL-500-AC air sampler is well suited for various types of air sampling applications such as emergency response 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 technology provides maximum flexibility, data integrity, automatic flow control, flow rate normalization and opportunities for control by a PC device through the RS232 or USB communication port.

The typical operating flow range is 20 - 130 SLPM (0.7 – 4.5 SCFM). Actual flow range implemented will depend the filter(s) utilized by the customer.

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GAS-EDL-500-AC AC/DC Global Air Sampler Specifications

Pump Type: Centrifugal blower

Maximum Flowrate:

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

Power Source:

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

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 (3)

Weight: 34 lbs. (15.5 kg)

Dimensions: 19.7" × 12" × 18" (50 × 30.5 × 46 cm)

Operating Temperature Range:

14°F to 104°F (-10°C to 40°C)

Display: VFD, 4×24 characters

Flow Control: Adjustable from keypad between 20-130 LPM

Flow Accuracy: ±3.0% of Full Scale

Communication Interface: Dual RS-232

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

Optional Items:

- Air Sampler Data Acquisition Program
P/N: GASdaq
- Isokinetic sampling mode configuration
P/N: ISOKOPT
- Configuration for external 24VDC input
P/N: 24VDCOPT
- Extended Sample Inlet with Rain Shield
P/N: FJ-CH51 for 2" Filter Media
P/N: FJ-47RH for 47mm Filter Media
- Ruggedized cell phone system
P/N: CASRPS