



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

GLOBAL LOW VOLUME AIR SAMPLING SYSTEM

F&J MODEL GAS-EDL-28BE

NOTABLE FEATURES:

- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display; 4 line × 24 characters
- Flow rate and volume measurements corrected to operator selectable Reference Temperature and Pressure
- Electronic flow control
- Display in English or various metric units
- Dual RS-232 communication ports
- Flow rate accuracy: $\pm 3.0\%$ Full Scale
- Auto zero calibration feature of flow sensor
- Various operator selectable sampling modes
- Display of Multiple on-board calculations
- Wide temperature range electronics



GENERAL DESCRIPTION:

The Model GAS-EDL-28BE Global Air Sampling System is a microprocessor controlled low volume air sampler. The pump is mounted on a base plate within a weather resistant aluminum environmental enclosure having four rubber feet. Handles are provided on the enclosure to facilitate transportation. The enclosure rating is IPX3.

The GAS-EDL-28BE utilizes a bright VFD that has four (4) lines by 24 characters and utilizes wide temperature range electronic components for use in extreme ambient conditions.

This unit is designed for continuous indoor or outdoor use. This unit can be adapted for tripod mounting if desired. Please consult the product specifications for the design temperature range and the installation category.

Higher flow rates achieved depending on filter media used. With greater differential pressure drops lower the flow rates.

The typical operating flow range is 1.0 to 9.5 CFM (30 – 270 LPM). Actual flow range implemented will depend the filter(s) utilized by the customer.

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GAS-EDL-28BE Global Low Volume Air Sampler (220 – 240VAC)

SPECIFICATIONS

Pump Type:	Centrifugal blower
Maximum Flow Rate:	140 LPM – Typical w/47 mm FP47M glass fiber media 170+ LPM – Free air flow capacity
POWER REQUIREMENTS:	220-240VAC; 50/60Hz; single phase 5 amps
CIRCUIT BREAKER PROTECTION:	Fused 5 amps
ELECTRICAL CORD:	All temperature, 3 wire, 14 gauge
THERMAL OVERLOAD PROTECTION:	Furnished as an integral part of the motor

DIMENSIONS:	19”L × 12.5”W × 13” H (48×30.5×33 cm)
WEIGHT:	29 lbs. (13.2 kg)
INSTALLATION CATEGORY:	Pollution Degree 3
ENCLOSURE RATING:	IPX3

ELECTRONIC SPECIFICATIONS:

AIR FLOW	± 3.0% of full scale
TEMPERATURE	± 0.9°F (0.5°C)
BAROMETRIC PRESSURE	1% over measured range
OPERATING TEMPERATURE:	0° - 122°F (-17° - 50°C)
STORAGE TEMPERATURE RANGE;	-20° - 150°F (-29° - 65°C)
CALIBRATION:	Operator calibration-verification 1 per year
COMMUNICATIONS INTERFACE:	Dual RS-232
DISPLAY:	VFD, 4×24 characters

DATA STORAGE:

Simultaneous data storage of all measured parameters in non-volatile memory; time and date stamp on records. Data storage for continuous sampling:

Optional reporting of all stored data and/or summary record for host computer or local printer via RS-232 serial link

ON-BOARD CALCULATIONS:

Flow calculation from differential pressure value using best fit curve method

Flow correction for operator selectable reference temperature and pressure

Auto-zero correction utilizing electro-pneumatic method to compensate for offset and drift (automatic, once every minute)

Minimum and maximum values of measured parameters

COMBINATION FILTER HOLDERS AVAILABLE:	Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47 mm, 2” or 50 mm diameter particulate filter paper are available. All models have quick disconnect function.
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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