

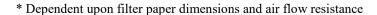
F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

GLOBAL LOW VOLUME AIR SAMPLING SYSTEM F&J MODEL GAS-CB-22-D

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Powerful: Flow rate to 140 LPM*
- Very low maintenance
- Automatic Flow Control
- Precision machined DP flow sensor
- Bright OLED Display; 4 lines x 32 characters
- Dual RS-232 communication ports
- Flow rate accuracy: $\pm 3.0\%$ Full Scale
- Auto zero calibration feature of flow sensor
- Multiple operator selectable data storage and data transmission frequency rates
- Wide temperature range electronics
- Brushless motor: 12VDC, 60,000 rpm





External Filter Holder with Rain Shield Included in the Price

GENERAL DESCRIPTION:

Tel: 352.680.1177

F&J Model GAS-CB-22-D is a powerful small foot print light weight AC/DC powered air sampling system operable from (1) line power or (2) an optional 12VDC external power source.

The GAS-CB-22-D air sampler is a microprocessor controlled low volume REMP air sampling system consisting of a low maintenance brushless motor vacuum system. The air sampler component is very light (~ 15 lbs.) and requires very little maintenance. It can also 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. A feature rich data acquisition program and report writing PC program is included in the price.

The air sampler is mounted on a sliding base plate, which is secured within the aluminum environmental weatherhouse, model WH-3HEPA designed for desert or dusty environments.

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

The typical operating flow range is 20 - 140 SLPM (0.7 - 5 SCFM). Actual achievable maximum flow will depend on the filter(s) utilized by the customer.

Pump Type: High Efficiency Centrifugal blower

Standard Combination Filter Holders Available:

PARTICULATE

PAPER

DIAMETER

2" or 50 mm

2" or 50 mm

47 mm

47 mm 2" or 50 mm

47 mm

CHARCOAL

CARTRIDGE

DIMENSIONS

F&J Model B

F&J Model C

F&J Model B

F&J Model C

F&J Model M

F&J Model M

P/N: GASdaq

Air Sampler Data Acquisition Program

Optional Items:

FILTER

HOLDER

MODEL

FJ-05P

FJ-21P

FJ-35P

FJ-46P

FJ-51P

FJ-53P

Motor: 12VDC br	ushless motor 60,000 rpm
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140 LPM - Typical w/47 mm FP47M glass fiber media

Power Source:

Line Power: 100VAC to 120VAC External DC Source – 12VDC

Current Draw: 2 A maximum on line power

9 A maximum on 12 VDC

Filter Holder Fitting:

Maximum Flowrate:

3/8 FNPT quick disconnect

Weight: \sim 82 lbs. (37.3 kg)

Dimensions: $32" \times 26" \times 48\frac{1}{4}"$ (81.3 × 66 × 122.6 cm)

(Height of sample inlet & filter holder ~ 81 1/4)

Operating Temperature Range:

14°F to 122°F (-10°C to 50°C)

Display: Bright OLED Display; 4 lines x 32 characters

Flow Control: Adjustable from keypad between 20-150 LPM

 $\pm 3.0\%$ of Full Scale Flow Accuracy:

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: scem, SLPM, SCFM, sm³/min, sm³/hr

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

°C. °F Temperature:

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

Reference T and P

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Reference T: 0°C, 15°C, 20°C, 21.1°C (70°F), 25°C 101.325 kPa (760 mm Hg), 100 kPa (1 bar) Reference P: 1 sec, 1 min, 10 min, 20 min, 30 min, 1 hr RS232 Data Output Frequency:

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

Operating Mode: Continuous, Periodic

Periodic Sampling Options: 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

Maximum Flow Rates for Various NPP Type Particulate and Charcoal Cartridges

Filter Media Type	Maximum Flow Rate (L/min)	Maximum Flow Rate (ft ³ /min)
FP-47	80.6	2.8
FP47 + TE2C	65.5	2.3
FP47 + TE3C	74	2.6
FP47M	148.1	5.2
FP47M + TE2C	98.1	3.4
FP47M + TE3C	117.5	4.1
521147	87.4	3.1
521147 + TE2C	69.8	2.5
521147 + TE3C	77.7	2.7

Environmental Air Sampling System Designed for Continuous Outdoor Use

1. Available in WH-3 HEPA weather house or larger optional WH-3A HEPA enclosure.



3. Air sampler component can also be used as a light weight portable air sampler.

2. Air sampler component can be easily exchanged for laboratory calibration or maintenance.

CONSUMABLES AND ACCESSORIES FOR AIR MONITORING PROFESSIONALS

Assorted Filter Paper





Cellulose, Quartz, Membrane and Glass Fiber

Filter Holders







Aluminum

Radioiodine Collection Cartridges





TEDA Impregnated Charcoal Cartridges and Silver Zeolite Cartridges

Tel: 352.680.1177 fandj@fjspecialty.com www.fjspecialty.com