

**F&J SPECIALTY PRODUCTS, INC.**

*The Nucleus of Quality Air Monitoring Programs*

# GLOBAL AIR SAMPLER FIXED STATION HIGH VOLUME AIR SAMPLER SYSTEMS

220 — 240 VAC



GAS-604DTE



GAS-804DTE



GAS-60810DTE



GAS-PM10DTE



GAS-PM2.5DTE



GAS-60810DTE-HSI

Rev: 23 June 2025

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-604DTE

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display (VFD); 4 lines×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Operator selectable units of measurement
- Dual RS-232 communication ports
- Flow rate accuracy:  $\pm 3.0\%$  Full Scale
- Auto zero calibration feature of flow sensor
- Continuous or periodic sampling mode
- Multiple operator selectable data storage rates
- Display of Multiple on-board calculations
- Powerful 1100 Watt Brushless motor
- 220-240VAC; 50/60Hz, single phase



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 17 to 85 m<sup>3</sup>/hr (10 – 50 CFM). The standard filter holder has the dimensions 4”D (102 mm).

<b>Technology:</b>	Microprocessor controlled state of the art electronics	
<b>Operating Temperature Range:</b>	11°F to 122°F (-10°C to 50°C)	
<b>Typical Flow Rate Range:</b>	17 to 85 m <sup>3</sup> /hr (10 – 50 CFM) (Depending on filter paper dimensions and its air flow resistance)	
<b>Ultimate Vacuum:</b>	22.2 kPa (89.21 inches H <sub>2</sub> O)	
<b>Motor:</b>	Brushless: 1.5 H.P. (1100 Watt) motor with electronic motor speed control	
<b>Power Requirements:</b>	220-240 VAC; 50/60 Hz; 6 amperes; single phase.	
<b>Housing:</b>	Powder coat painted aluminum Removable hinged cover	Locking hinged cover Locking swing door with key
<b>Dimensions:</b>	57.5”H × 21.5”W × 21.5”D	(146H × 54,6W × 54,6 cm D)
<b>Weight:</b>	Approximately 98 lbs. (44,5 kg)	
<b>Shipping Weight:</b>	Approximately 150 lbs. (68,2 kg)	
<b>Installation Category:</b>	Pollution Degree 3	
<b>Enclosure Rating:</b>	IPX3	

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset Reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within  $\pm 3.0\%$  of setting. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure to the reference values.

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-804DTE

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display (VFD); 4×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Display in English or various metric units
- Dual RS-232 communication ports
- Flow rate accuracy: ±3.0% Full Scale
- Auto zero calibration feature of flow sensor
- Various operator selectable sampling modes
- Multiple operator selectable data storage and data transmission frequency rates
- Display of Multiple on-board calculations
- Wide temperature range electronics



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 5 and 50 CFM (141 and 1415 LPM). Filter holder is a 4 inch (102 mm) diameter standard.

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** -31°F\* to 122°F (-35°C\* to 50°C)  
\* warm start/continuous operation

**Operating Relative Humidity:** 0 – 95% RH

**Typical Flow Rate Range:\*** 5 – 50 CFM (141 to 1415 LPM)  
(Depending on filter paper dimensions and air resistance).

**Motor:** Brushless: 1.5H.P. (1100 Watt) motor with electronic motor speed control

**Power Requirements:** 220-240VAC; 50/60Hz; 5 amperes; single phase.

**Housing:** Powder coat painted aluminum  
Locking swing door with key

**Dimensions:** 26”H × 26.5”W × 16.5”D (66 H × 67 W × 41cm D)

**Weight:** Approximately 60 lbs. (27,2 kg)

**Shipping Weight:** Approximately 100 lbs. (45,5 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within ± 3.0% of setting. The microprocessor computes the STP flow rate by correcting for temperature and pressure.

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-60810DTE

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display (VFD); 4 lines×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Operator selectable units of measurement
- Dual RS-232 communication ports
- Standard flow rate accuracy:  $\pm 3.0\%$  Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Continuous or periodic sampling mode
- Multiple operator selectable data storage rates
- Display of Multiple on-board calculations
- Powerful 1100 Watt Brushless motor
- Meets or exceeds the USEPA requirements in 40CFR50 Appendix B
- 100-120VAC; 50/60Hz, single phase



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 34 and 170 m<sup>3</sup>/hr (20 – 100 CFM). The standard filter holder has the dimensions 8”×10” (20,3×25,4 cm).

### Technology:

Microprocessor controlled state of the art electronics

### Operating Temperature Range:

11°F to 122°F (-10°C to 50°C)

### Typical Flow Rate Range:\*

34 to 170 m<sup>3</sup>/hr (20 – 100 CFM)  
(Depending on filter paper dimensions and its air flow resistance)  
\* Approximate value for FP810M glass fiber filter media

### Ultimate Vacuum:

22.2 kPa (89.21 inches H<sub>2</sub>O)

### Motor:

Brushless: 1.5 H.P. (1100 Watt) motor with electronic motor speed control

### Power Requirements:

220-240 VAC; 50/60 Hz; 6 amperes; single phase.

### Housing:

Powder coat painted aluminum      Locking hinged cover  
Removable hinged cover              Locking swing door with key

### Dimensions:

57.5”H × 21.5”W × 21.5”D              (146H × 54,6W × 54,6 cm D)

### Weight:

Approximately 98 lbs. (44,5 kg)

### Shipping Weight:

Approximately 150 lbs. (68,2 kg)

### Installation Category:

Pollution Degree 3

### Enclosure Rating:

IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset Reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within  $\pm 3.0\%$  of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure to the reference values.

## PM-10 GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-PM10DTE

### NOTABLE FEATURES:

- Size Selective Inlet (<10 micron cut size)
- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display; 4×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Display in English or various metric units
- Dual RS-232 communication ports
- Standard flow rate accuracy: ±3.0% Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Various operator selectable sampling modes
- Display of Multiple on-board calculations
- Wide temperature range electronics
- 220—240 VAC, 50/60 Hz; single phase



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set up to ~100 CFM (~170 m<sup>3</sup>/hr) . Filter holder is a 8"×10" (20,3×25,4 cm) standard.

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** 11°F to 122°F (-10°C to 50°C)

**Typical Flow Rate Range:** ~100 CFM (~170 m<sup>3</sup>/hr)  
(Depending on filter paper dimensions and its air flow resistance).

**Motor:** Brushless: 1.5 H.P. (1100) Watt motor with electronic motor speed control

**Power:** 220-240 VAC; 50/60 Hz; 6 amperes; single phase.

**Housing:** Powder coat painted aluminum      Hinged cover  
Removable hinged cover      Locking swing door with key

**Dimensions:** 57.5"H × 21.5"W × 21.5"D      (146H × 54,6W × 54,6 cm D)

**Weight:** Approximately 139 lbs. (63 kg)

**Shipping Weight:** Approximately 190 lbs. (86,4 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within ± 3.0% of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure.

## PM2.5 GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-PM2.5DTE

### NOTABLE FEATURES:

- Size Selective Inlet (<2.5 micron cut size)
- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display; 4×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Display in English or various metric units
- Dual RS-232 communication ports
- Standard flow rate accuracy: ±3.0% Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Various operator selectable sampling modes
- Display of Multiple on-board calculations
- 220—240 VAC, 50/60 Hz; single phase



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set ~100 CFM (~170 m<sup>3</sup>/hr). Filter holder is a 8"×10" (20,3×25,4 cm) standard.

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** 11°F to 122°F (-10°C to 50°C)

**Typical Flow Rate Range:** ~100 CFM (~170 m<sup>3</sup>/hr)  
(Depending on filter paper dimensions and its air flow resistance).

**Motor:** Brushless: 1.5 H.P. (1100) Watt motor with electronic motor speed control

**Power:** 220-240 VAC; 50/60 Hz; 6 amperes; single phase.

**Housing:** Powder coat painted aluminum      Hinged cover  
Removable hinged cover      Locking swing door with key

**Dimensions:** 57.5"H × 21.5"W × 21.5"D      (146H × 54,6W × 54,6 cm D)

**Weight:** Approximately 139 lbs. (63 kg)

**Shipping Weight:** Approximately 190 lbs. (86,4 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within ± 3.0% of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure.

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-60810DTE-HSI

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- Omni-directional hemispherical sample inlet
- State-of-the-Art electronics
- Vacuum fluorescent display; 4 lines×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Operator selectable units of measurement
- Dual RS-232 communication ports
- Standard flow rate accuracy:  $\pm 3.0\%$  Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Continuous or periodic sampling mode
- Multiple operator selectable data storage rates
- Display of Multiple on-board calculations
- Powerful 1100 Watt motor
- 220-240VAC; 50/60Hz, single phase



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 30 and 170 m<sup>3</sup>/hr (18 – 100 CFM). The standard filter holder has the dimensions 8”×10” (20,3×25,4 cm).

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** -20°F to 122°F (-29°C to 50°C)

**Typical Flow Rate Range:\*** 30 to 200 m<sup>3</sup>/hr (18 – 117 CFM)  
(Depending on filter paper dimensions and air resistance)  
\* Approximate value for FP810M glass fiber filter media

**Ultimate Vacuum:** 22.2 kPa (89.21 inches H<sub>2</sub>O)

**Motor:** Brushless: 1.5H.P. (1100 Watt) motor with electronic motor speed control

**Power Requirements:** 100-120VAC; 50/60Hz; 10 amperes; single phase.

**Housing:** Powder coat painted aluminum      Locking hinged cover  
Removable hinged sample inlet      Locking swing door with key

**Dimensions:** 57.5”H × 21.5”W × 21.5”D      (146H × 54,6W × 54,6 cm D)

**Weight:** Approximately 130 lbs. (59 kg)

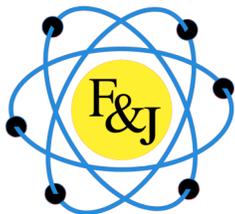
**Shipping Weight:** Approximately 180 lbs. (81,8 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within  $\pm 3.0\%$  of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure.



## F&J SPECIALTY PRODUCTS, INC.

*The Nucleus of Quality Air Monitoring Programs*

### PRODUCT PROFILE

#### Air Sampling Systems

- High Volume Air Samplers
  - Portable Grab Samplers
  - Environmental Systems
  - Enzyme Dust Samplers
  - PM10 Systems
- Continuous Air Samplers
  - Environmental Systems
  - Portable
  - Fixed Station
- Personal Air Samplers
- Emergency Response DC Powered Air Sampling Systems

#### Filter Paper

- Glass Fiber
- Cellulose
- Membrane
- Quartz

#### Filter Holders

- Open face
- In-Line
- PAS Filter Holders
- Materials
  - Plastic
  - Aluminum
  - Stainless Steel

#### Radon Detection Devices

- 2-Day Passive Charcoal Canisters
- 7-Day Passive Charcoal Canisters
- Continuous Radon Monitors

#### Tritium Detection Systems

- Portable and Fixed Station Collection Systems utilizing Silica Gel or Molecular Sieve Absorbents
- Continuous Tritium Monitors

#### New Products

- Global Air Sampling Systems
- Digital Flowmeter Air Samplers
- C-14 Collection Systems
- ELITE DIGITAL LIGHT (EDL) Air Samplers
- Isokinetic Air Sampling Systems
- MEGA High Volume Air Samplers
- ULTRA High Volume (CTBTO) Air Samplers
- JUNIOR CTBTO Air Samplers

#### Radioiodine Collection Cartridges

- TEDA Impregnated Charcoal
- Silver Zeolite
- Custom Cartridges
- Bulk Silver Zeolite

#### Air Flow Calibrators

- World Calibrator Series
- Compact Digital V.2 Series
- Mini-Calibrator