

DIGITAL FLOW METER KIT FOR ANALOG PUF AIR SAMPLERS F&J Model DF-HKUPG-PUF

F&J Flow Sensor

Existing Vacuum
Blower Assembly

Input Power
Connection

4-Pin Connection for
Brushless Vacuum
Blower



Digital Flow Meter
Electronic Module

RS232 Port for optional
Data Storage Device or
Ruggedized Phone System

GENERAL DESCRIPTION:

The DF-HKUPG-PUF series upgrade kits are designed to upgrade existing analog PUF air sampling stations currently utilizing chart recorders and electromechanical timers. The DF-HKUPG-PUF upgrade kit eliminates the need to purchase an entirely new air sampling system.

The Installation of the DF-HKUPG-PUF upgrade kit will provide the following benefits:

- (1) Automatic Normalization of flow rates and air sample volumes to an internationally recognized Reference Temperature and Pressure Standard
- (2) Automatic electronic flow control
- (3) Accurate elapsed time measurement
- (4) RS232 communications port for integration with the F&J Data Storage Device, or F&J ruggedized cellular phone system for remote and unattended air samplers.

The typical operating flow rates can vary from the standard 30 to 300 LPM, or another more appropriate flow range to conform to the customer requirements.

REV: 20 June 2019

Digital Flow Meter Features

Operator Selectable Options

Shut off Type

On Time	1 min to 168 hours
On Volume	.01 to 9.99×10^{99} Sm ³ /hr
(minimum volumen varies depending on flow range and flow units)	

RS232 Output Frequency 1/sec, 1/min, 1/6min, 1/hr

Automatic Flow Control: Operator selectable within the instrument's operating flow range

Selection of Reference T and P or Ambient flow reporting conditions

Factory Settable Options

Flow/Volume units	Sccm/scc, SLPM/SL, SCFM/SCF, Sm ³ /hr, Sm ³ /min
Temperature units	°C, °F
Pressure units	inHg, mmHg, kPa
Reference Temperature	0°C, 20°C, 70°F, 25°C
Reference Pressure	29.92 inHg (760 mmHg)
Display Dimming Function	On or Off
Auto Shut-off Function	On or Off
Flow Control	On or Off
Sampling Mode	Volumetric
Gas Type	Air
Language Options for Label	English, French

Options

(1) Data Logger System

- Data Storage Device (P/N: 232FCDSDD)
- Secure Digital Card (P/N: 372239)
- Flash Card Reader (P/N: SDDR-199-A20)

(2) Ruggedized Cellular Phone System (P/N: CASRPS-DFM)

Specifications

Flow Range Available:

Model 100-240 VAC	Sensor Flow Range (m³/hr)
DF-HKUPG-PUF-300	30 to 300
DF-HKUPG-PUF-200	20 to 200

Power Requirements: 100 to 240 VAC; 50/60 Hz, 1 PH

Fuse Protection: 8 Amp, slow blow

Electrical Cord: 3 wire, 16 gauge

Dimensions: 15.0”L x 7.8” H x 4.0”D (38.1cm L x 19.8cm H x 10.1cm D)

Weight: 5.5 lbs (2.4 kg)

Installation Category: Pollution Degree 2

Electronic Specifications

Measurement Accuracy:	Air flow	± 4% of full scale
	Temperature	± 2.0° F (1.1° C)
	Barometric Pressure	2% over measured range

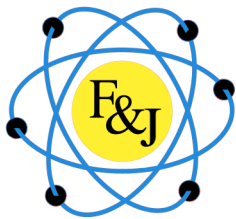
Operating Temperatures: 0° to 122° F (-17° to 50° C)

Storage Temperature: 0° to 158° F (-17° to 70° C)

Calibration: Calibration-Verification once per year

Communications Interface: RS-232 (comma delimited text file)

Display: LED; 6 character



PRODUCT LINE SHEET

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

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

