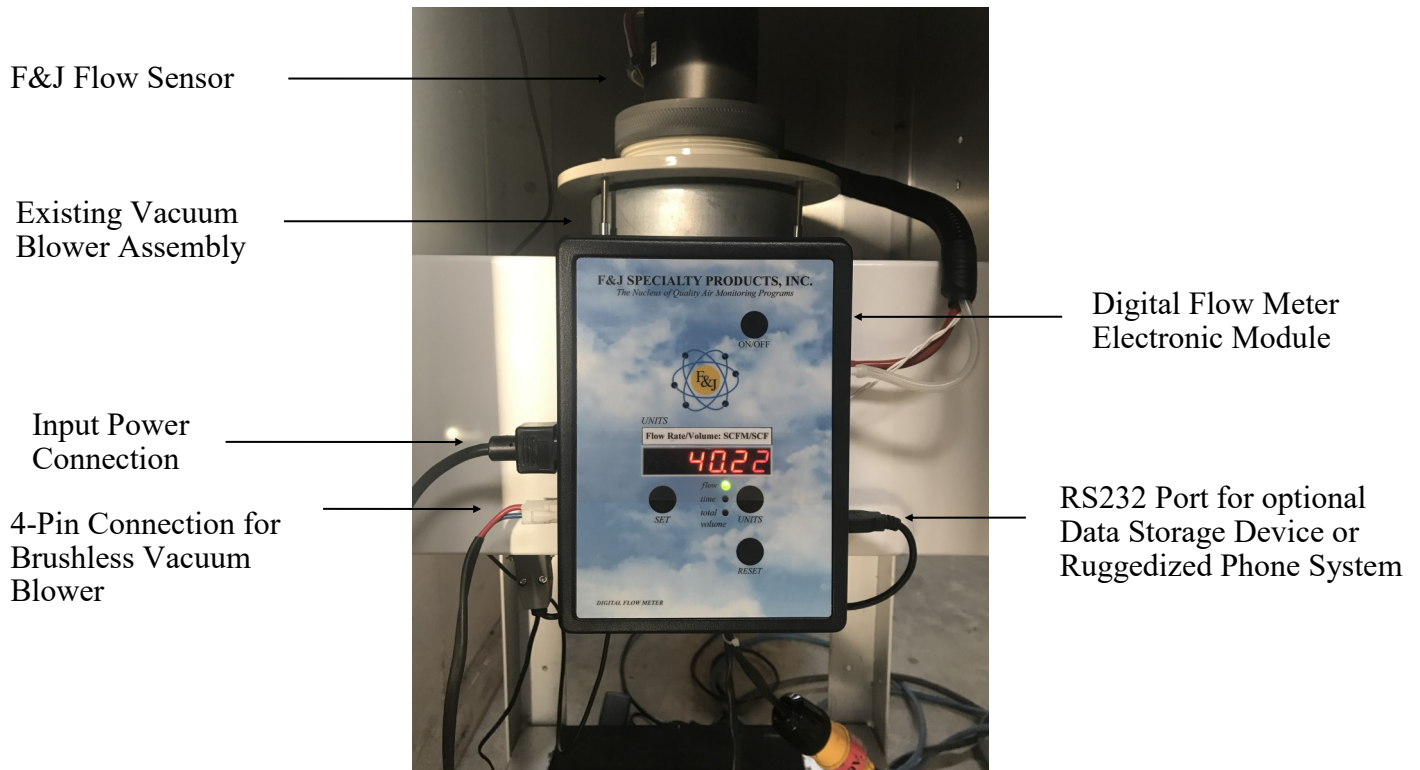


F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

DIGITAL FLOW METER KIT FOR BRUSHLESS ANALOG HIGH VOLUME TSP AIR SAMPLERS

F&J Model DF-HKUPG-BL



GENERAL DESCRIPTION:

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

The Installation of the DF-HKUPG-BL 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 20 to 120 m³/hr, or another more appropriate flow range to conform to the customer requirements.

REV: 22 May 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

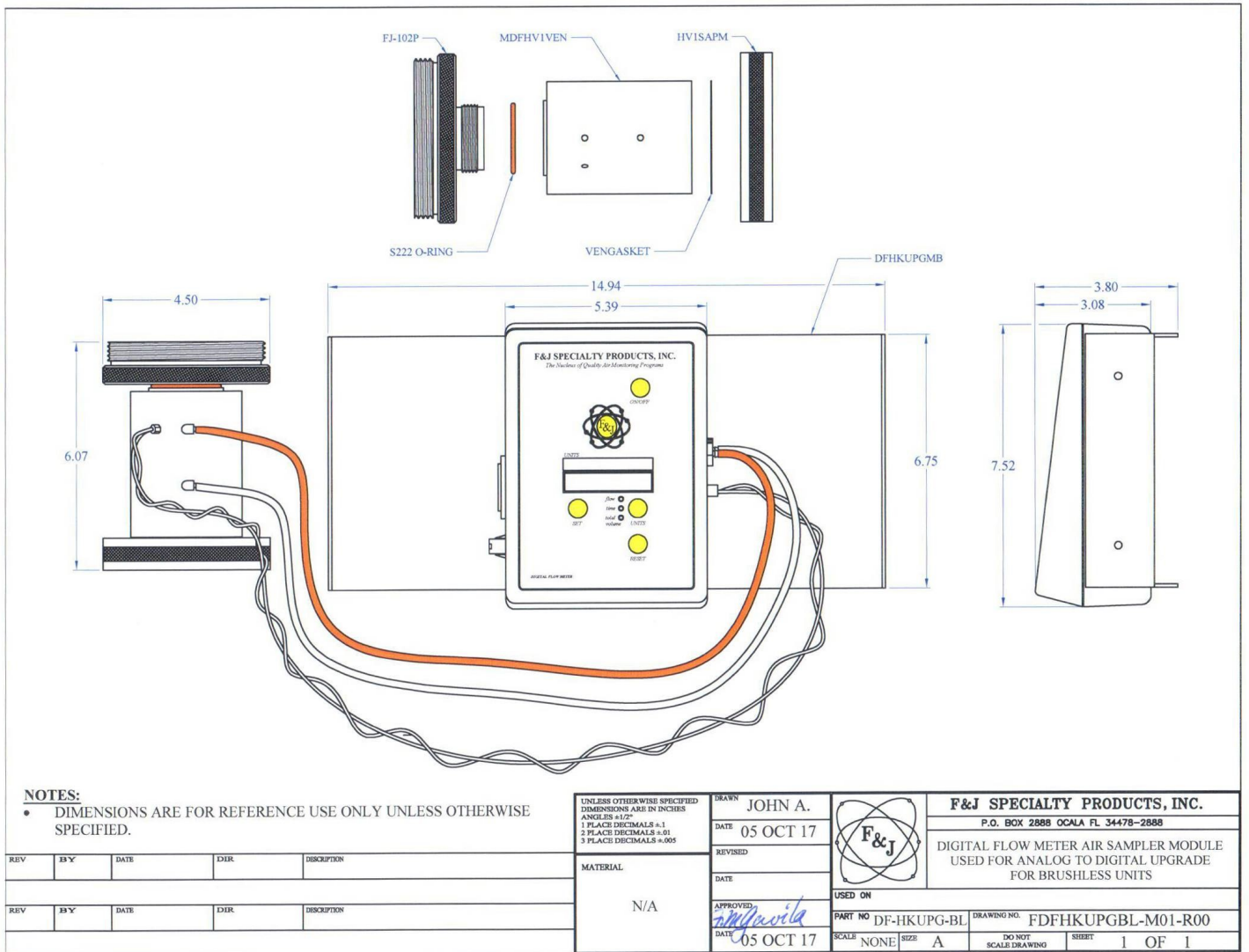
Options

(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)

Pictures



Specifications

Flow Range Available:

Model	Sensor Flow Range
100-240 VAC	(m³/hr)
DF-HKUPG-BL-120	20 to 120
DF-HKUPG-BL-85	10 to 85
DF-HKUPD-BL-50	8 to 50

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