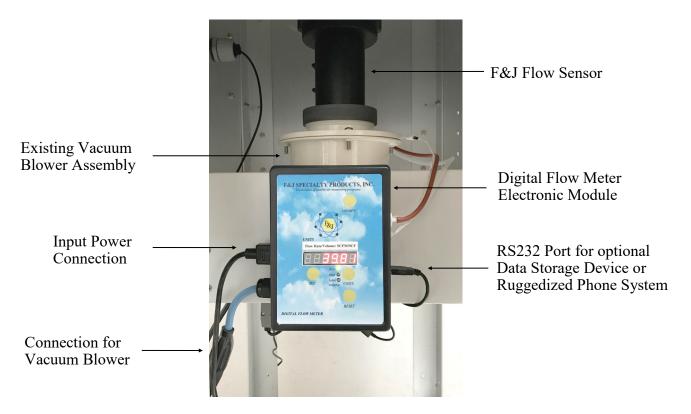


F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

DIGITAL FLOW METER KIT FOR ANALOG HIGH VOLUME TSP AIR SAMPLERS F&J Model DF-HKUPG



GENERAL DESCRIPTION:

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

The Installation of the DF-HKUPG 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: 06 Sept. 2018

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} Sm³/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 Scem/scc, SLPM/SL, SCFM/SCF, Sm³/hr, Sm³/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: 232FCDSD)
Secure Digital Card (P/N: 372239)
Flash Card Reader (P/N: SDDR-199-A20

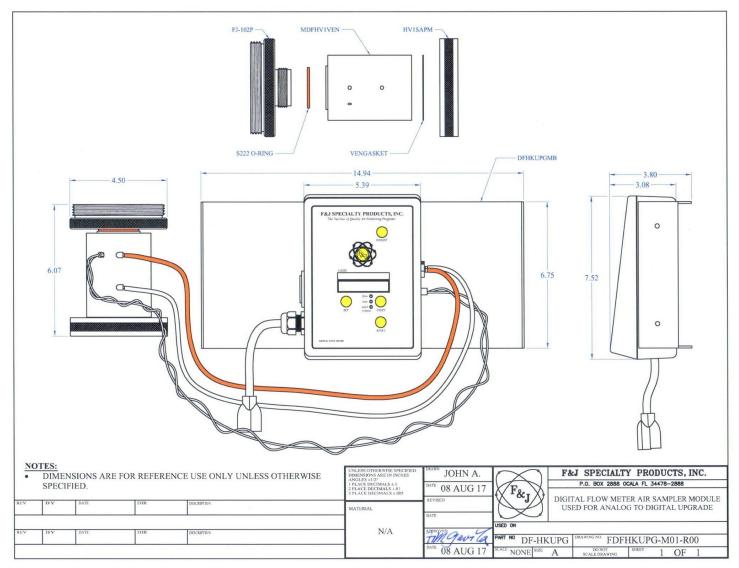
(2) Ruggedized Cellular Phone System (P/N: CASRPS-DFM)

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

Pictures







Specifications

Flow Range Available:

Model **Sensor Flow Range** (m^3/hr) 200-240 VAC 20 to 120 DF-HKUPG-120 DF-HKUPG-85 10 to 85 8 to 50 DF-HKUPD-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

Air flow Measurement Accuracy: \pm 4% of full scale

> Temperature $\pm 2.0^{\circ} F$ $(1.1^{\circ} C)$

2% over measured range Barometric Pressure

Operating Temperatures: 0° to 122° F $(-17^{\circ} \text{ to } 50^{\circ} \text{ C})$ 0° to 158° F $(-17^{\circ} \text{ to } 70^{\circ} \text{ C})$ Storage Temperature: Calibration: Calibration-Verification once per year Communications Interface: RS-232 (comma delimited text file)

Display: LED; 6 character