

DIGITAL GAS FLOW METERS



MODEL : DFM-06

Technical Specifications

• Flow Range	: DFM-06 : 10 ml/min. to 400 ml/min. with least count of 0.1 ml/min. (auto range)
• Accuracy	: $\pm 2\%$ of reading, ± 1 digit
• Power Supply	: 230 V AC, 50 Hz, 10W
• Resolution	: 0.1 ml/min. & 1 ml/min.
• Dimensions	: DFM-06 : 20 cm (H) x 10 cm (W) x 4 cm (D)
• Optional Attachment	: Battery operated rechargeable system

Salient Features

- Direct Digital Readout
- Microcontroller Based
- Digital Display of LED/LCD
- Highly Accurate & Fast Readout
- Useful for measuring any gas flow rate specially for G.C. & Analytical instruments
- Easy to Operate
- Free of Operational & Human Errors
- DFM-06 - Portable (Direct Measurement) is direct flow measurement based & battery operated

DIGITAL GAS FLOW METER DFM-05 (ELLUTIA 7000 GC FLOWMETER)



MODEL : DFM-05 (Ellutia 7000 GC Flowmeter)

Salient Features

Accurate & repeatable gas flow measurements are a crucial part of obtaining good results from the gas chromatograph. The new DFM-05 flow meter makes gas flow measurement easier and more accurate, helping to eliminate user errors.

Linear Velocity

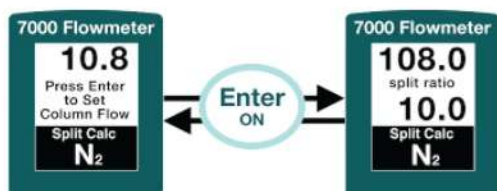
The user is able to select their column diameter in the options menu, the linear velocity can then be calculated and displayed. The user can easily switch between standard flow and linear velocity with a single button press.

Split Flow Calculation

Split flow mode allows the user to measure and store a column flow, the user can then measure the split flow and the DFM-05 flowmeter displays both the flow rate and the split ratio.

Specification

- Range : 5 to 500 ml/min. (1 to 275 ml/min. for Carbon Dioxide)
- Resolution : 0.1 ml/min
- Accuracy : ± 0.4 ml/min. or 2.5% of reading (whichever is greater)
- Gases : Air, Argon, Argon / 5% Methane, Carbon Dioxide, Helium, Hydrogen, Nitrogen, Oxygen
- Size : 68 x 130 x 30 mm
- Weight : 150 gm
- Calibration : Annually
- Traceability : Calibration traceable to UKAS standards



DIGITAL GAS FLOW METER DFM-08 (RESTEK PROFLOW-6000)



Technical Specification

- Type of Measurement : Volumetric Flow
- Accuracy of Measurements : $\pm 2\%$ of flow reading or ± 0.2 ml/min. whichever is greater
- Power Requirements : 2 AA alkaline batteries 1.5 V DC each / 3 V DC 200 ma
- Operating Flow Range : 1 to 500 ml/min.
- Operating Temperature Range : $0^\circ - 48^\circ$ C
- Available Communication : USB data port
- Warranty : 1 Years
- Calibration : NIST traceable. Yearly calibration is recommended
- Certification : CE, Ex
- Compliance : WEEE, RoHS

MODEL :

DFM-08 (Restek ProFLOW-6000)

PC Control System : Gas Flow Management System (GFMS 5.0)



RESTEK Certificate of Calibration

110 Banner Circle, Bellefonte, PA 16823

Calibration Number	22006
Model Number	ProFLOW 6000
Serial Number	481000007
Calibration Date	09/08/2020
Calibrated By	L.S.
Test Location	885
NIST Traceable Documents	82-18-11
Calibration Procedure Number	82-18-04
Temperature (°C)	21.999
Pressure (kPa)	101.22
Calibration Date	09/08/2020

Calibration

Reference Flow	Flow	% Error	Standard Deviation	Result
0.000	0.00	0.00	0.000	0.000
1.000	1.00	0.00	0.000	0.000
2.000	2.00	0.00	0.000	0.000
4.000	4.00	0.00	0.000	0.000
6.000	6.00	0.00	0.000	0.000
8.000	8.00	0.00	0.000	0.000
10.000	10.0	0.00	0.000	0.000
20.000	20.0	0.00	0.000	0.000
30.000	30.0	0.00	0.000	0.000
40.000	40.0	0.00	0.000	0.000
50.000	50.0	0.00	0.000	0.000
100.000	100	0.00	0.000	0.000
200.000	200	0.00	0.000	0.000
300.000	300	0.00	0.000	0.000
400.000	400	0.00	0.000	0.000
500.000	500	0.00	0.000	0.000

Repeatability Accuracy: ± 0.001 ml/min at 100 ml/min, which is 0.001%.

Document: C000-001

Salient Features

- Flow for gases across a range of 1-500 ml/min.
- Yearly Calibration
- Over-range warning indicator
- Auto shutoff feature
- Ergonomic design and side grips for comfort
- Use as a benchtop or handheld unit
- Measures most gas types
- Convenient carrying / storage case included
- Uses 2 AA batteries (included)
- Data output via USB port

PRECIMATE-200



Sample Preparation in

- 9V 2A adapter powers the system.
- USB Input from Gas Flow Meter is emulated in lab.
- Run /Header button press on keypad, causes reading to smartcoming at 10 sec. interval after the 10th reading Footer is automatically printed.
- Date Time set mode is activated by pressing Date Time on keypad.
- On LCD display the Date & Time is displayed.
- Printer used is embedded two inch thermal printer with only 32 characters in one line.
- In Bluetooth mode, printer name with its MAC ID is displayed on LCD.
- System holds Date & Time using the CMOS.

Specifications

- Input : 100V-240V AC
- Printer : FFP-P26 embedded
- LCD : 16 x 2 LCD Panel
- Keypad : 4 X 4 Matrix Keypad