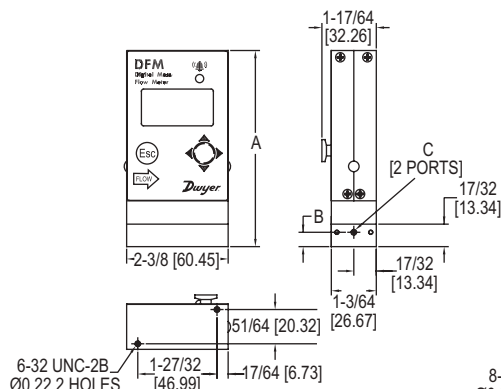
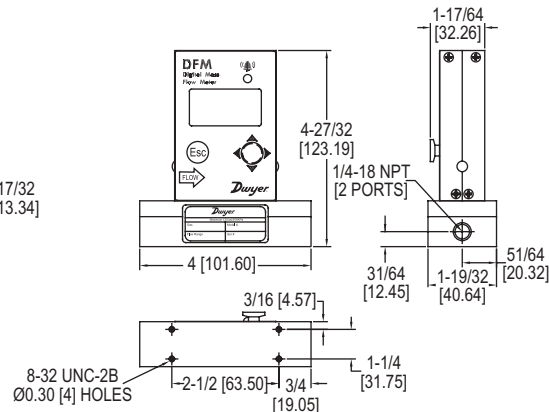


DIGITAL FLOW METER

Multi-Parameter, Multi-Gas, Field Configurable



Ranges 0.5 mL/min-20 L/min (DFM-01/50)



Ranges 21 L/min-100 L/min (DFM-51/56)

Range	A in [mm]	B in [mm]	C
0.5 mL/min-50 mL/min	4-13/32 [111.76]	4-37/64 [116.33]	10-32 UNF-2B
51 mL/min-20 L/min	4-37/64 [116.33]	4-13/32 [111.76]	1/8-27 NPT

The **Series DFM Digital Flow Meter** is the industry leader in the measurement of mass and volumetric flow rates of process gases. Using the OLED/joystick interface, the flowmeter can measure up to 30 different gases. TSimultaneous displays of mass flow, volumetric flow, pressure and temperature parameters promote applications in a variety of industries.

BENEFITS/FEATURES

- Quick (< 20ms) response time
- Multi-parameter functionality
- Multi-gas functionality
- Capable of storing up to 90 gases and 20 custom gas mixes
- Field configurable
- Modifiable outputs
- High, low or in-range alarms with preset action delay for mass flow, temperature and pressure

APPLICATIONS

- Gas flow measurement
- Operating pumps and valves
- Process equipment
- Scientific and analytical
- Bioreactors and surface depositions
- Gas sampling
- General manufacturing

SPECIFICATIONS

Service: Clean, non-corrosive gases compatible with wetted parts.
Wetted Materials: 316 SS, 416 SS, high temperature polyamide, alumina ceramic, epoxy, silicone, glass, gold, FKM O-rings.
Accuracy: $\pm(0.5\%$ of reading + 0.2% FS).
Repeatability: $\pm 0.15\%$ FS.
Response Time: 10 ms.
Output: 0-5 VDC, 0-10 VDC and 4-20 mA.
Relay Rating: Programmable solid state relay.
Max. Particulate Size: 20 microns.
Temperature Limits: 14 to 140°F (-10 to 60°C).
Power Supply: 9-26 VDC.
Process Connections: 1/8" compression fitting for flow rates ≤ 10 L/min; 1/4" for ≤ 50 L/min; 3/8" for ≤ 100 L/min.
Display: 2 x 16 character OLED (model selectable).
Pressure Limits: 120 psig (8.27 bar).
Leak Integrity: 1×10^{-9} sccs of helium.
Weight: DFM-01/50: 0.85 lb (0.4 kg); DFM-51/56: 1.15 lb (0.52 kg).
Agency Approvals: CE.

MODEL CHART									
Example	DFM	-22	010	-V	-A	L	A	2	DFM-22010-V-ALA2
Series	DFM								Digital flow controller
Range*		22							0-100 mL/min
		26							0-200 mL/min
		32							0-500 mL/min
		37							0-1000 mL/min
		39							0-2 L/min
		43							0-5 L/min
		48							0-10 L/min
		56							0-100 L/min
Body Size			005						Very low flow
			010						Low flow
			050						Medium flow
			100						High flow
Seal Material				V					Fluoroelastomer
Fittings					A				1/4" compression (low)
					B				1/8" compression (medium)
					D				3/8" compression (high)
Display						L			LED display
Output Signal							A		0-5 VDC default (4-20 mA, 0-10 VDC display selectable)
Digital Interface								2	RS-232 default (RS-485 display selectable)
								3	RS-232 with Modbus® (RS-485 selectable)

*Consult factory for ranges up from 0-0.5 mL/min to 0-100 L/min.

ACCESSORIES	
Model	Description
GFM-110P	110 V power supply
GFM-220PE	220 V power supply
Note: 1.5 ft RS-232 interface 3-wire 9-pin D connector included. For RS-485 contact factory for A-DFM-CBL-A485DP 3 ft RS-485 3.5 mm stereo-audio connection with stripped ends available for purchase.	

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