CIFM-88 Series

DuraMassFlow PFA Coriolis Mass Flow Meter

PSG a DOVER company

MALEMA

Where Innovation Flows

MALEMA

Unmatched Durability for Aggressive Chemistries

The Malema CIFM-88 Series, a cutting-edge Coriolis flow meter engineered with a patented design and built with corrosion-resistant PFA wetted material. This innovative design makes the CIFM-88 the ideal solution for measuring aggressive acids and alkalis in chemical and process industries.

Key Benefits:

- **Superior Corrosion Resistance:** The PFA material offers exceptional durability against corrosive chemicals, eliminating the need for expensive and exotic metals like hastelloy, tantalum, titanium, and monel. This translates to reduced costs and increased operational uptime.
- **Accurate and Reliable Measurements:** Leveraging the Coriolis principle, the CIFM-88 simultaneously measures mass flow, density, and temperature with exceptional accuracy of ±1%. This precision is crucial for ensuring process control and optimization.
- **Robust Construction:** Housed in a rugged stainless-steel enclosure, the CIFM-88 is designed to withstand harsh industrial environments. Its durable build guarantees long-term performance and reliability.
- **User-Friendly Interface:** The built-in 4-line LCD panel provides real-time data on flow rate, totalized flow, temperature, and density.

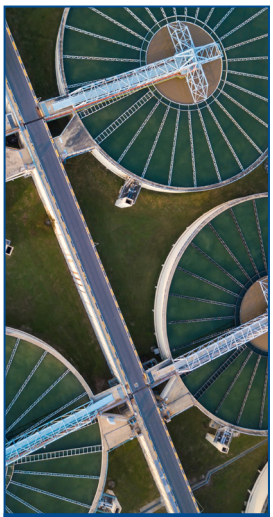
Malema CIFM-88 Series: The Corrosion-Resistant Coriolis Flow Meter

CHEMICAL PROCESSING

PHARMACEUTICAL MANUFACTURING

FOOD AND BEVERAGE PRODUCTION

PULP AND PAPER INDUSTRY



WASTEWATER TREATMENT

Applications:

- Chemical Processing
- Pharmaceutical Manufacturing
- Food and Beverage Production
- Pulp and Paper Industry
- Wastewater Treatment

Why Choose the CIFM-88 Series?

By selecting the CIFM-88, you can:

- Enhance Operational Reliability
- Minimize Costly Downtime
- Optimize Yield Throughout
- Improve Process Control
- Reduce Maintenance Expenses

Experience the Difference

Discover the unmatched performance and durability of the Malema CIFM-88 Series. Contact us today to learn more about how this innovative flow meter can benefit your specific application.

Key Features

- Suitable for highly corrosive solutions, high purity chemicals and solutions containing solid contents
- No need for upstream and downstream straight pipe runs
- High flow measurement turndown
- Multivariable measurement: mass, flow, density, and temperature
- Fluid measurement performance is independent of fluid properties, eliminating the need to calibrate on different fluids.
- Accuracy is unaffected by flow regime (e.g., laminar or turbulent flow) or variations in flow velocity profile.
- Sensors can operate and measure fluids in two-phase flow conditions with gas volumetric void fractions up to 30%.

Specifications

Measurement Specifications

Measurement Range:	1/4" size: 50-1,500 g/min; 3/8" size: 200-4,000 g/min
Accuracy:	for 1/4" size: +/-1% of flow rate between 150-1500 g/min; for flow rates below 150 g/min +/-1% of flow rate +/- 2 g/min for 3/8" size: +/-1% of flow rate between 400-4000 g/min; for flow rates below 400 g/min +/-1% of flow rate +/- 3 g/min

Physical Specifications

Process Connections:	1/4" and 3/8" tube or Flare or Pillar connection
Wetted Material:	Daikin 211 SH (Similar to Perfluoroalkoxy PFA 440)
Enclosure Material:	SS 304

Electrical Specifications

Transmitter:	Integral with flow sensor
Supply Voltage:	24 V DC ± 10%
Output:	4–20 mA Current Loop, Frequency Output 0–10 kHz
Digital Communication:	Modbus RS485
Display:	Local LCD with flow total reset and flow zero keys

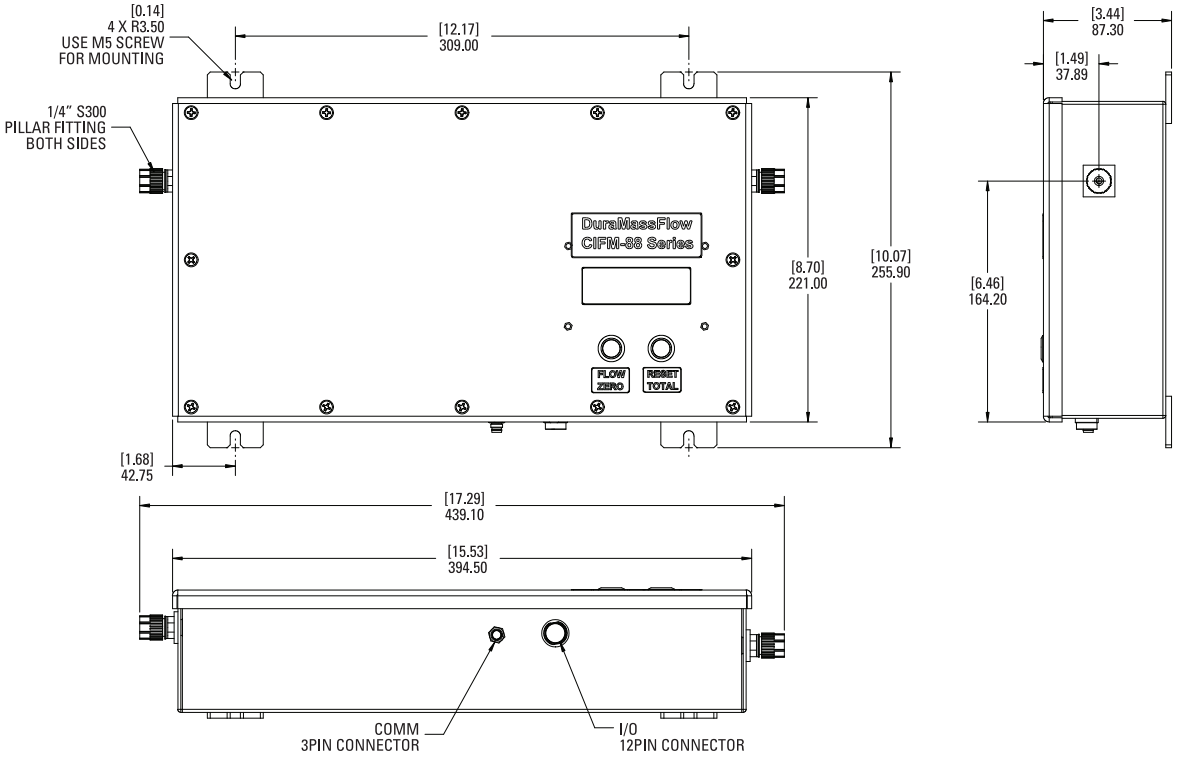
Environmental Specifications

Ambient Temperature:	0–50°C
Fluid Temperature:	18–50°C
Operating Pressure:	80 psig (max.)
Area Classification:	For use in safe area
Ingress Protection:	IP65

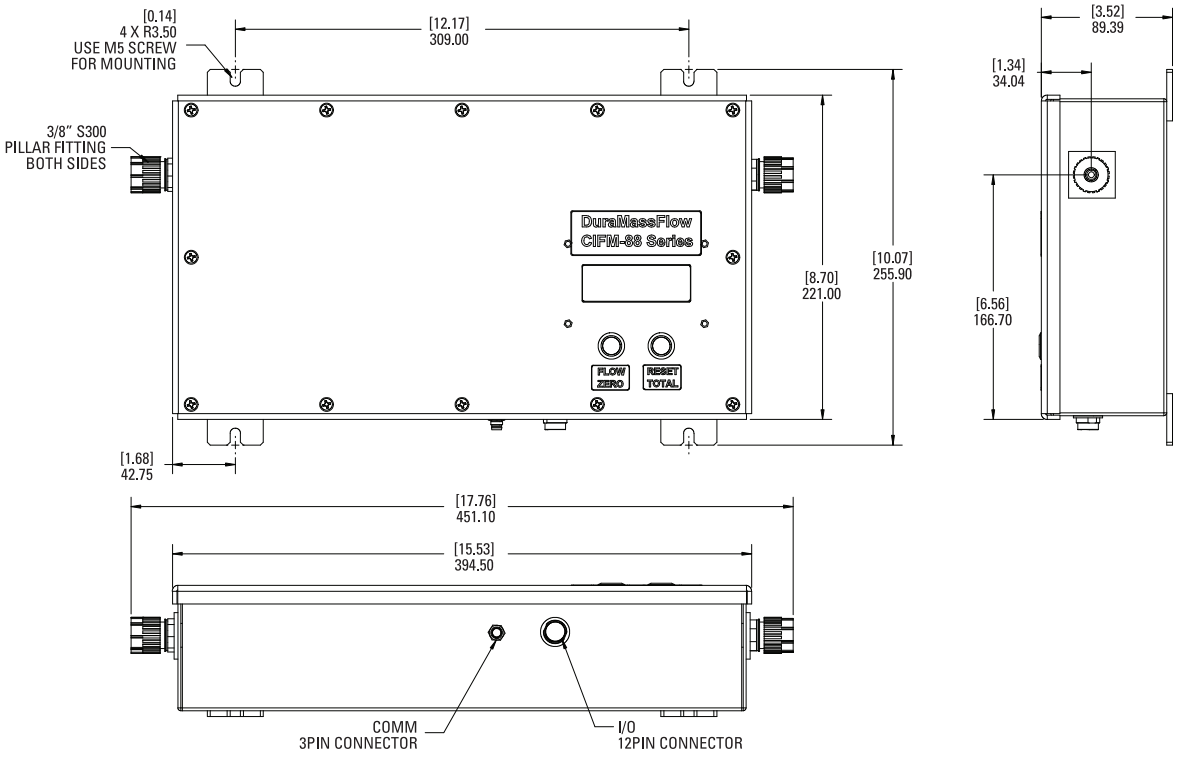
Dimensions

For Reference Only

1/4" CIFM-88 Series



3/8" CIFM-88 Series



Ordering Information

Model Code												Description
Model	-	Range Code	Display	Process Connection	Process Connection Type	Output	Mounting Orientation	Measurement Version	I/O Cable	Factory Reserved	Unique ID	
CIFM												
	-	8803-1										PFA Sensor; 15 - 1,500 g/min
		8803-2										PFA Sensor; 40 - 4,000 g/min
			D									With Local LCD Display
				2								1/4"
				3								3/8"
					P							Pillar (S 300) - Male
					F							Flare - Male
						1						1x 4-20mA for mass or volume flow (4mA =0 g/min, 20mA= Max Flow for the corresponding size range); 1 X DI, 1 X DO, 1 x RS 485 Modbus
						2						1 x 4-20mA mass flow or volume flow (4mA =0 g/min, 20mA= Max Flow for the corresponding size range); 1 x 4-20mA for density (0.8 to 1.4 g/ml). 1 X DI, 1 X DO, 1 x RS 485 Modbus
							HL					Horizontal (Flow Left to Right)
							HR					Horizontal (Flow Right to Left)
							VB					Vertical (Flow Bottom to Top)
								0				Mass only version
								1				Mass and Density version
									0			Cable not included
									3			3 meter cable included with supply
										X		Reserved
											-S01	Standard Supply
											-XXX	Custom (Factory will assign unique 3 digit extension)

Notes

PSG
Malema
1060 S Rogers Circle
Boca Raton, FL 33487
USA
P: +1 (800) 637-6418
psgdover.com/malema

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