

A1 SERIES ALUMINUM OPTION



SPECIFICATIONS

Meter Sizes Available:		A025 (Low Flow), A100 (1-inch)	
Design Type:	A025	Paddlewheel	
	A100	Turbine	
Fitting Size / Fitting Type:	A025	1-inch / NPT, ISO* or BSPP (Female)	
	A100	1-inch / NPT, ISO* or BSPP (Female)	
Flow Range:	A025	0.3 - 3 GPM	1 - 11 L/min
	A100	3 - 50 GPM	11 - 190 L/min
Accuracy (% of Reading):		A025: Application Dependent ¹	
		A100: $\pm 1.5\%$	
Repeatability:	A025	$\pm 1.0\%$	
	A100	$\pm 0.2\%$	
Pressure Rating (Aluminum):		300 psi (21 bar)	
Operating Temperature Range:		-40° F to 250° F (-40° C to 121° C)	
with Safe Area Only Display:		0° F to 140° F (-18° C to 60° C)	
with Intrinsically Safe Display:		0° F to 129° F (-18° C to 54° C)	
Typical K-Factor:	A025	2,200 PPG (581 Pulses/L)	
	A100	730 PPG (193 Pulses/L)	
Frequency Range:	A025	11-110 Hz @ 0.3-3 GPM (1-11 L/min)	
	A100	36.5-608.3 Hz @ 3-50 GPM (11-190 L/min)	
Recommended Strainer Size:	A025	55 mesh (275 μ m)	
	A100	28 mesh (700 μ m)	
Wetted Materials (Aluminum):	Housing:	Aluminum	
	Bearings:	Ceramic (96% Alumina)	
	Shaft:	Tungsten Carbide	
	A025 & A100 Rotor:	Nylon	
	Rings:	316 Stainless Steel	
Calibration Report:		N.I.S.T. – Certification available.	

¹ISO 7 Designation is RC.

¹Accuracy can vary up to $\pm 5\%$ depending on installation and fluid type. Field calibration is recommended for best accuracy.

FLOMEC® A1 Series Meters are designed as self-contained, battery-powered units. Select the A1 Series when you need an accurate meter for thin petroleum-based fluid applications. Intrinsically safe for use in hazardous areas.

- Available in Aluminum
- Available in three sizes
- Designed for thin petroleum based fluids

FEATURES / BENEFITS

- Unique package combines Turbine and LCD into a self-contained, compact, economical meter
- Local Display Computer features: 2 Non-Volatile Totals (Batch Total = Resettable, Total = Non-resettable) and Rate of Flow
- Output capabilities available to communicate with process control equipment
- Lightweight, compact design allows for easy installation
- 12 selectable engineering units (gallons or liters are standard defaults)
- Factory calibration
- AAA Alkaline battery life: 2 years

APPLICATIONS

- Fuel Transfer
- Batching / Blending
- Fuel Products

APPROVALS[†]



IP65



[†]If the meter includes any modules (4-20 mA and Pulse Out) that introduces external power, then all intrinsic safety approvals are voided.

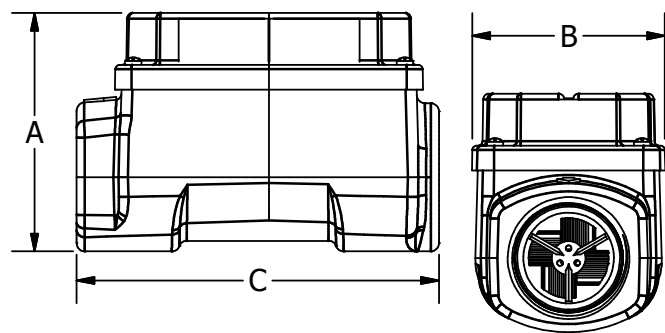
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GREAT PLAINS INDUSTRIES



A1 SERIES

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DIMENSIONS

	A025, 1 in. Low Flow	A100, 1 in.
A = Height*	2.5 in. (63.5 mm)	2.5 in. (63.5 mm)
B = Width	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)
C = Length	4.0 in. (101.6 mm)	4.0 in. (101.6 mm)

*Height includes 0.7 in. (1.8 cm) for the computer electronics.

ACCESSORIES

Part No.	Description
113275-10	FM Approved Remote Kit Assembly†
113435-10	Conditioned Signal Output Module
125260-02	90° Display Adapter Kit
125100-10	4-20 mA / Pulse Out Module

†Does not make Non-FM or Non-ATEX Approved meters FM or ATEX Approved.