

A1 SERIES FLOWMETERS, ALUMINUM OPTION

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.

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

FEATURES / BENEFITS

- Unique package combines Turbine and LCD into a selfcontained, 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
- AAA Alkaline battery life: 2 years
- 12 selectable engineering units (gallons or liters are standard defaults)
- Factory calibration

APPLICATIONS

- Fuel Transfer
- · Batching / Blending
- Fuel Products

PRODUCT CONFIGURATION

1 PRODUCT IDENTIFIER:

A1 = Electronic Digital Meter

2 ELECTRONIC CHOICE:

Computer Display, Meter Mounted

Q9 = Q9 2-Button Computer

Computer Display & Module, Meter Mounted*

P9 = Q9 2-Button Computer w/Pulse Out Module, includes External Power and 10 ft. of Cable

42 = Q9 2-Button Computer w/4-20mA Module and 10 ft. of Cable

Module, Meter Mounted (No Display)*

PO = Pulse Out (Unscaled) Conditioned Signal Module w/Cable

Retrofit Computer Kit (Display Only)

R9 = Q9 2-Button Computer Retrofit Kit (Replaces 09 Display)

No Electronics - Turbine Only

XX = No Electronics - Turbine Only

*All Electronics Approvals Void

3 CALIBRATION:

GM = Factory Default Calibration in Gallons

LM = Factory Default Calibration in Liters

XX = No Computer

4 TURBINE SIZE:

A025 = Aluminum - Low Flow

A100 = Aluminum - 1 inch

A200 = Aluminum - 2 inch

X### = No Turbine**

**When ordering Display Only, the ### should be the turbine size.

5 FITTING TYPE:

N = NPT (Female)

I = ISO (Female) BSPT

B = BSPP Female

X = No Turbine

6 PACKAGING:

With FM, ATEX & IEC Approval for HAZARDOUS AREA

A1 = Standard or Low Flow, 1 inch (w/Q9 & R9 Electronics Choice)

A2 = Standard, 2 inch (w/Q9 & R9 Electronics Choice)

B1 = Standard or Low Flow, 1 inch Turbine Only

B2 = Standard, 2 inch Turbine Only

B3 = Display Only

Non-Approved Version - SAFE AREA ONLY

C2 = Low Flow through 2 inch Turbines (w/P9, 42, & PO Electronics Choice)





















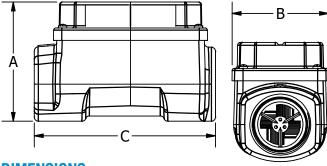


SPECIFICATIONS

Meter Sizes Available:		A025 (Low Flow), A100 (1 inch), A200 (2 inch)		
Design Type:	A025	Paddlewheel		
	A100	Turbine		
	A200	Turbine		
Fitting Size / Fitting Type:	A025	1 inch / NPT, ISO+ or BSPP (Female)		
	A100	1 inch / NPT, ISO+ or BSPP (Female)		
	A200	2 inch / NPT, ISO+		
Flow Range:	A025	0.3 - 3 GPM	1 - 11 L/min	
	A100	3 - 50 GPM	11 - 190 L/min	
	A200	30 - 300 GPM	114 - 1,135 L/min	
Accuracy (% of Reading):		A025: Application Dependent ¹		
		A100, A200: ± 1.5%		
Repeatability:		A025	± 1.0%	
		A100	± 0.2%	
		A200	± 0.2%	

⁺ISO 7 Designation is RC.

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



DIMENSIONS

	A025, 1 in. Low Flow	A100, 1 in.	A200, 2 in.
A =	2.5 in.	2.5 in.	4.25 in.
Height*	(6.3 cm)	(6.3 cm)	(11.4 cm)
B =	2.0 in.	2.0 in.	3.0 in.
Width	(5.1 cm)	(5.1 cm)	(7.6 cm)
C =	4.0 in.	4.0 in.	6.0 in.
Length	(10.1 cm)	(10.1 cm)	(15.2 cm)

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

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)		
	A200	72 PPG (19 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)		
	A200	36-360 Hz @ 30-300 GPM (114-1135 L/min)		
Recommended Strainer Size:		A025	55 mesh (275 μm)	
		A100	28 mesh (700 μm)	
		A200	28 mesh (700 μm)	
Wetted Materials (Aluminum):	Housing:	Aluminum		
	Bearings:	Ceramic (96% Alumina)		
	Shaft:	Tungsten Carbide		
	Rotor:	Nylon		
	Rings:	316 Stainless Steel		
Calibration Report:	Comes standard with A1 Series meters.			
	N.I.S.T Certification available.			

ACCESSORIES

Part No.	Description	
113275-10	FM Approved Remote Kit Assembly [‡]	
113435-10	Conditioned Signal Output Module	
125260-02	90° Display Adapter Kit	
120077-01	FM Approved Sensor Kit [‡]	
120077-02	ATEX Approved Sensor Kit [‡]	
113524-01	Connector Kit for FM or ATEX Approved Sensor [‡]	
125060-10	Pulse Out, External Power, Scaled Pulse Module	
125100-10	4-20 mA Module	

 $^{^{} au}$ Does not make Non-FM or Non-ATEX Approved meters FM or ATEX Approved.