A1 SERIES FLOWMETERS, NYLON OPTION

FLOMEC® A1 Series Meters are designed as self-contained, battery powered units. Select the A1 Series when you need an accurate meter for water or non-aggressive chemical applications.

- Available in Nylon
- Nylon meter for use in water or non-aggressive chemical applications

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
- AAA Alkaline battery life: 2 years
- 12 selectable engineering units (gallons or liters are standard defaults)
- Factory calibration

APPLICATIONS

- Plant Process Water
- Batching / Blending
- Water / Non-Aggressive Chemicals
- Ag Chemicals
- Solvents / Glycol
- Chemical Feed Lines

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*- SAFE AREA ONLY
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)*- SAFE AREA ONLY
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:
GD = Gallons Per Minute (Gallons Default) with NIST Certificate
GM = Factory Default Calibration in Gallons
LD = Liters Per Minute (Liters Default) with NIST Certificate
LM = Factory Default Calibration in Liters
XX = No Computer

4 TURBINE SIZE:
N025 = Nylon - Low Flow
N100 = Nylon - 1 inch
X### = No Turbine**

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

5 FITTING TYPE:
N = NPT (Female)
I = ISO (Female) BSPT
X = No Turbine

6 PACKAGING:
With FM, ATEX & IEC Approval for HAZARDOUS AREA
A1 = Standard or Low Flow, 1-inch (w/Q9 Electronics Choice)
B1 = Standard or Low Flow, 1-inch Turbine Only
B3 = Display Only (w/Q9 & R9 Electronics Choice)

Non-Approved Version - SAFE AREA ONLY
C2 = Low Flow and 1 inch Turbines (w/P9, 42, & PO Electronics Choice)

	1	2	3	4	5	6
--->>>>	A1	Q9	GM	N100	N	A1

APPROVALS†

CE ATEX Ⓔx NEMA 4 FM APPROVED c FM us APPROVED IP65 IEC IECEx
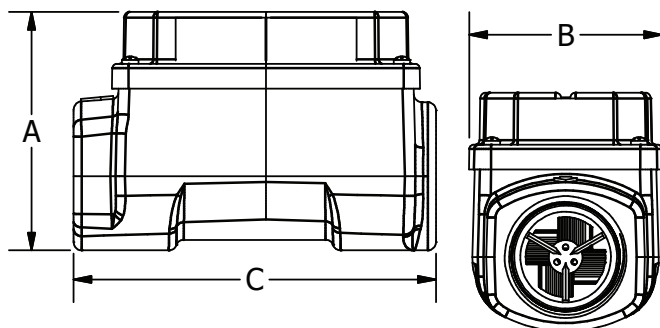
†All A1 Series Q9 Displays have the CE, NEMA 4, and IP65 approval.

FLOMEC ®

SPECIFICATIONS

Meter Sizes Available:		N025 (Low Flow), N100 (1 inch)	
Design Type:	N025	Paddlewheel	
	N100	Turbine	
Fitting Size / Fitting Type:	N025	1 inch / NPT or ISO⁺ (Female)	
	N100	1 inch / NPT or ISO⁺ (Female)	
Flow Range:	N025	0.3 - 3 GPM	1 - 11 L/min
	N100	3 - 50 GPM	11 - 190 L/min
Accuracy (% of Reading):		N025: Application Dependent[1]	
		N100: ± 1.5%	
Repeatability:	N025	± 1.0%	
	N100	± 0.2%	

⁺ISO 7 Designation is RC.
[1]Accuracy can vary up to ± 5% depending on installation and fluid type.
Field calibration is recommended for best accuracy.

DIMENSIONS

	N025, 1 in. Low Flow	N100, 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.

Pressure Rating (Nylon):		150 psi (10.3 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:	N025	2200 PPG (581 Pulses/L)	
	N100	730 PPG (193 Pulses/L)	
Frequency Range:	N025	11-110 Hz @ 0.3-3 GPM (1-11 L/min)	
	N100	36.5-608.3 Hz @ 3-50 GPM (11-190 L/min)	
Recommended Strainer Size:		N025	55 mesh (275 μm)
		N100	28 mesh (700 μm)
Wetted Materials (Nylon:	Housing:	Nylon	
	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

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

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