



A1 SERIES (COMMERCIAL GRADE METERS)

FLOMEC® A1 Series Meters are designed as self-contained, battery powered units. Select the A1 Series when you need an accurate, basic meter.

- Available in Aluminum or Nylon
- Aluminum model is available in three sizes
- Use the Aluminum model for petroleum products
- 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 Totals (1 Resettable, 1 Cumulative); Rate of Flow and User Configuration.
- Output capabilities available to communicate with process control equipment.
- Lightweight, compact design allows for easy installation.
- Lithium battery life: 5 years
- Factory calibration in gallons and litres (can also be field calibrated to other fluids).

APPLICATIONS

- Fuel Transfer
- Plant Process Water
- Batching / Blending
- Fuel Products (Aluminum model)
- Water / Non-aggressive Chemicals (Nylon model)
- Ag Chemicals
- Solvents / Glycol
- Chemical Feed Lines

PRODUCT CONFIGURATION

PRODUCT IDENTIFIER 1

A1 = Commercial Grade Electronic Digital Meter

ELECTRONIC CHOICE 2

09 = 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres, User Configuration and Rate of Flow

XX = No Computer

CALIBRATION 3

GM = GPM & L/min (Gallons Default)

LM = GPM & L/min (Litres Default)

XX = No Computer

TURBINE SIZE 4

A025 = Aluminum - Low Flow

A100 = Aluminum - 1 inch

A200 = Aluminum - 2 inch

N025 = Nylon - Low Flow

N100 = Nylon - 1 inch

X### = No Turbine*

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

FITTING TYPE 5

N = NPT (Female)

I = ISO (Female) BSPT

B = BSPP Female - available on A025 and A100 turbines only

X = No Turbine

PACKAGING 6

A1 = Standard Low Flow - 1 inch

A2 = Standard - 2 inch

B1 = Low Flow - 1 inch Turbine Only

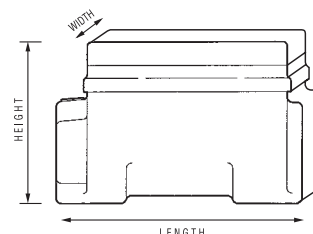
B2 = 2 inch Turbine Only

B3 = Computer Only

1 2 3 4 5 6
---->>>> A1 09 GM N100 N A1

DIMENSIONS

Meter Size	Length " (mm)	Height " (mm)	Width " (mm)
A025	4.0 (102)	2.5 (63)	2.0 (51)
A100	4.0 (102)	2.5 (63)	2.0 (51)
A200	6.0 (152)	4.5 (114)	3.0 (76)
N025	4.0 (102)	2.5 (63)	2.0 (51)
N100	4.0 (102)	2.5 (63)	2.0 (51)



SPECIFICATIONS

Meter Sizes Available:		A025 (Low Flow), A100 (1 inch), A200 (2 inch), N025 (Low Flow), N100 (1 inch)	
Design Type:	A025	Paddlewheel	
	A100	Turbine	
	A200	Turbine	
	N025	Paddlewheel	
	N100	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* or BSPP (Female)	
	N025	1 inch / NPT, ISO* (Female)	
	N100	1 inch / NPT, ISO* (Female)	
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
	N025	0.3 - 3 GPM	1 - 11 L/min
	N100	3 - 50 GPM	11 - 190 L/min
Accuracy (% of Reading):		A025 & N025: **Application Dependent	
		A100, A200 & N100: ± 1.5%	
Repeatability:	A025		± 1.0%
	A100		± 0.2%
	A200		± 0.2%
	N025		± 1.0%
	N100		± 0.2%

*ISO 7 Designation is RC.

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

APPROVALS



IP65



NEMA 4

ACCESSORIES / ELECTRONICS

Part No.	Description
113275-1	FM Approved Remote Kit Assembly
113435-1	Conditioned Signal Output Module
125260-01	90° Display Adapter Kit
120077-01	FM Approved Sensor Kit

Part No.	Description
120077-02	ATEX Approved Sensor Kit
113524-01	Connector Kit for FM or ATEX Approved Sensor
113437-01	Conduit Adapter Kit
125080-1	Pulse Access Dust Cover

Pressure Rating (Aluminum):		300 psi (21 bar)
Pressure Rating (Nylon):		150 psi (10.3 bar)
Operating Temperature Range:		-40° F to 250° F (-40° C to 121° C)
with Display:		14° F to 140° F (-10° C to 60° C)
Typical K-Factor:	A025	2,200 PPG (581 Pulses/L)
	A100	730 PPG (193 Pulses/L)
	A200	72 PPG (19 Pulses/L)
	N025	2200 PPG (581 Pulses/L)
	N100	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)
	A200	36-360 Hz @ 30-300 GPM (114-1135 L/min)
	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:		A025 55 mesh (275 μ m)
		A100 28 mesh (700 μ m)
		A200 28 mesh (700 μ m)
		N025 55 mesh (275 μ m)
		N100 28 mesh (700 μ m)
Wetted Materials (Aluminum):	Housing:	Aluminum
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
Wetted Materials (Nylon):	Housing:	Nylon
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
Calibration Report:		Comes standard with A1 Series meters. N.I.S.T. - Certification available.

Service & Warranty: For technical assistance, warranty replacement or repair contact your **FLOMEC®** or **GPI®** distributor: In North or South America: **888-996-3837 / FLOMEC.net**
Outside North or South America: **+61 2 9540 4433 / FLOMEC.net**