

## PRODUCT CONFIGURATION

### 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 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** = Gallons / Minute  
**LM** = Litres / Minute  
**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\*

### FITTING TYPE 5

**N** = NPT (Female)  
**I** = ISO (Female) BSPT  
**B** = BSPP Female - available on A025 and A100 turbines only  
**X** = No Turbine

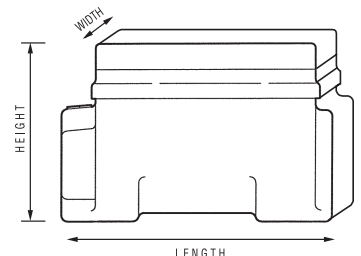
### PACKAGING 6

**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  
**C1** = Generic Low Flow - 1 inch  
**C2** = Generic - 2 inch  
**C3** = Generic Computer Only

--->>>> **1 2 3 4 5 6**  
**A1 + 09 + GM + N100 + N + A1 = SAMPLE**

## 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

<b>Meter Sizes Available:</b>	A025 (Low Flow), A100 (1 inch), A200 (2 inch), N025 (Low Flow), N100 (1 inch)		
<b>Design Type:</b>	A025	Paddlewheel	
	A100	Turbine	
	A200	Turbine	
	N025	Paddlewheel	
	N100	Turbine	
<b>Fitting Size / Fitting Type:</b>	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)	
<b>Flow Range:</b>	A025	0.3 - 3 GPM	1 - 11 LPM
	A100	3 - 50 GPM	11 - 190 LPM
	A200	30 - 300 GPM	114 - 1,135 LPM
	N025	0.3 - 3 GPM	1 - 11 LPM
	N100	3 - 50 GPM	11 - 190 LPM
<b>Accuracy (% of Reading):</b>	A025 & N025: **Application Dependent		
	A100, A200 & N100: ± 1.5%		
<b>Repeatability:</b>	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 ± 5% depending on installation and fluid type. Field calibration is recommended for best accuracy.

## APPROVALS



IP65

IECEX



NEMA 4



## ACCESSORIES / ELECTRONICS

Part No.	Description
113275-1	FM Approved Remote Kit Assembly
113265-1	Standard Remote Kit Assembly
113435-1	Conditioned Signal Output Module
125260-01	90° Display Adapter Kit
113800-06	GPI Electronics Programmer

<b>Pressure Rating (Aluminum):</b>	300 PSI / 21 BAR	
<b>Pressure Rating (Nylon):</b>	150 PSI / 10.3 BAR	
<b>Operating Temperature Range:</b>	-40° F to +250° F (-40° C to +121° C)	
	with Display:	0° F to +140° F (-18° C to +60° C)
<b>Typical K-Factor:</b>	A025	2,200 PPG / 581 PPL
	A100	730 PPG / 193 PPL
	A200	72 PPG / 19 PPL
	N025	2200 PPG / 581 PPL
	N100	730 PPG / 193 PPL
<b>Frequency Range:</b>	A025	11 - 110 Hz @ 0.3 - 3 GPM
	A100	36.5 - 608.3 Hz @ 3 - 50 GPM
	A200	36 - 360 Hz @ 30 - 300 GPM
	N025	11 - 110 Hz @ 0.3 - 3 GPM
	N100	36.5 - 608.3 Hz @ 3 - 50 GPM
<b>Recommended Strainer Size:</b>	A025	55 mesh
	A100	28 mesh
	A200	28 mesh
	N025	55 mesh
	N100	28 mesh
<b>Wetted Materials (Aluminum):</b>	Housing:	Aluminum
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
<b>Wetted Materials (Nylon):</b>	Housing:	Nylon
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	Nylon
	Rings:	316 Stainless Steel
<b>Calibration Report:</b>	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 / GPI.net**  
Outside North or South America: **+61 2 9540 4433 / flomec.com.au**

Part No.	Description
120077-01	FM Approved Sensor Kit
113437-01	Conduit Adapter Kit
11344001	Standard Conversion Kit
125080-1	Pulse Access Dust Cover