FLOMEC®

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

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
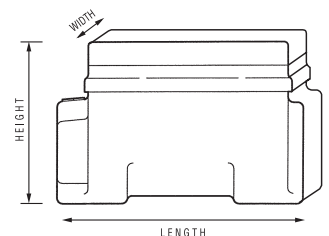**B1** = Low Flow - 1 inch Turbine Only
B2 = 2 inch Turbine Only
B3 = Computer Only

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 ± 5% depending on installation and fluid type. Field calibration is recommended for best accuracy.

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 µm)
	A100	28 mesh (700 µm)
	A200	28 mesh (700 µm)
	N025	55 mesh (275 µm)
	N100	28 mesh (700 µm)
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.

APPROVALS

CE ATEX Ex FM APPROVED C FM US APPROVED IP65 IEC IECEx 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

Wichita · Sydney · Mexico City   GREAT PLAINS INDUSTRIES GPI®