



G2 SERIES (PRECISION TURBINE METERS)

A full line of FLOMEC® G2 Series Precision Turbine Meters are available in a variety of housing materials. Rugged and dependable, the G2 Series offers:

- Stainless Steel for most chemicals and fuel products
- Aluminum for petroleum based products
- Brass for most water applications
- PVDF for aggressive chemicals

FEATURES / BENEFITS

- Meter is designed for thin fluids < 100 cp.
- Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- 2 Totals (Batch = Resettable, Cumulative = Non-resettable); Rate of Flow, Factory calibrated in gallons and litres. Field calibratable. Includes non-volatile totals.
- High accuracy meter
- Internal parts are simple to replace for easy maintenance.
- Lithium battery life: 5 years

APPLICATIONS

- | | |
|---------------------|--|
| • Batching | • Food & Beverage Processing |
| • Blending | • Fuel Products |
| • Water | • Monitoring Clean Fluids |
| • Industrial Fluids | • Plant Process Water |
| • Plating Solutions | • Chemical Feed Lines |
| • Ammonium | • Harsh Chemicals (Sulfuric Acid & Bleach) |

PRODUCT CONFIGURATION

PRODUCT IDENTIFIER 1

G2 = Industrial Grade Flowmeter

TURBINE MATERIAL 2

S = Stainless Steel, **A** = Aluminum, **P** = PVDF (1/2" & 1" only)
H = High Pressure Stainless Steel, **B** = Brass

TURBINE SIZE 3

05 = 1/2 inch, **07** = 3/4 inch, **10** = 1 inch, **15** = 1-1/2 inch, **20** = 2 inch

FITTING TYPE 4

I = ISO (Female) BSPT (ISO 7 Designation is RC),
N = NPT (Female), **F** = 150# ANSI Flange - available on S10, S15 and S20 only,
T = Tri-Clover® fitting - available on S05-S20 only,
X = Electronics only - for metal meters, **Z** = Electronics only - for plastic meters

ELECTRONIC CHOICE 5

Turbine with Local Display

09 = 2-Button Computer, Field Configurable (Cumulative, Batch & Rate)
19 = Vertical Mount 2-Button Computer, Field Configurable (Cumulative, Batch & Rate)

Remote Pulse Out Transmitter

41 = Remote Pulse Out Transmitter & Sine Wave Pickup (Standard Remote Sensor Option)
43 = Remote Pulse Out Transmitter & Turbine Mounted Computer (Pulse Out Sensor Option)

GG500 – Remote Standard Display

51 = Sine Wave Pickup (Standard Remote Sensor Option)
52 = Open Collector Pickup (Conditioned Signal Sensor Option)
53 = Turbine Mounted Computer (Pulse Access Sensor Option)

GX500 – Remote 4-20 mA Transmitter with Display

61 = Sine Wave Pickup (Standard Remote Sensor Option)
62 = Open Collector Pickup (Conditioned Signal Sensor Option)
63 = Turbine Mounted Computer (Pulse Access Sensor Option)

GA500 – Remote 4-20 mA Transmitter

71 = Sine Wave Pickup (Standard Remote Sensor Option)
72 = Open Collector Pickup (Conditioned Signal Sensor Option)
73 = Turbine Mounted Computer (Pulse Access Sensor Option)

No Electronics – Turbine Only

XX = No Electronics - Turbine Only

CALIBRATION 6

GM = Gallons/Minute, **LM** = Litres/Minute

XX = No Calibration (Use with Electronic Choices 41, 71, 72 or Turbine Only)

PACKAGING 7

A = Use for Turbine Only or Turbine with Mounted Local Display (Sizes 05-10)

B = Use for Turbine Only or Turbine with Mounted Local Display (Sizes 15-20)

C = Use for Turbine with Remote Transmitter (with or without Turbine Mounted Local Display) (Sizes 15-20)

1 2 3 4 5 6 7
 ---->>>> **G2 + S + 15 + N + 09 + GM + B = SAMPLE**

SPECIFICATIONS

Fitting Type:	NPT or ISO (Female) BSPT* (*ISO 7 designation is RC)	
	150# ANSI (Stainless Steel only)	
	Tri-Clover® (Stainless Steel only) - Clamp size is one size bigger than meter size	
Housing Material:	316 Stainless Steel, Aluminum, Brass, PVDF	
Meter Sizes Available:	1/2" 3/4" 1" 1-1/2" 2"	
Flow Range:	1/2" (05)	1 - 10 GPM (3.8 - 37.9 LPM)
	1/2" (05) PVDF Only	1.2 - 12 GPM (4.54 - 45.42 LPM)
	3/4" (07)	2 - 20 GPM (7.6 - 75.7 LPM)
	1" (10)	5 - 50 GPM (18.9 - 190 LPM)
	1-1/2" (15)	10 - 100 GPM (38.0 - 380 LPM)
	2" (20)	20 - 200 GPM (76 - 760 LPM)
Accuracy (% of Reading):	Turbine Only	Turbine w/Computer
	1/2" (05)	± 2.0% ± 1.5%
	3/4" (07)	± 1.5% ± 1.0%
	1" (10)	± 1.5% ± 1.0%
	1-1/2" (15)	± 1.0% ± 0.75%
	2" (20)	± 1.0% ± 0.75%
Repeatability:	± 0.1% (PVDF is ± 0.3%)	
Pressure Rating:		
316 Stainless Steel	1,500 PSI / 102 BAR	
Aluminum	300 PSI / 21 BAR	
Brass	300 PSI / 21 BAR	
High Pressure 316 Stainless Steel	3000 PSI / 207 BAR (CE Approval ONLY)	
ANSI Flange 316 Stainless Steel	Flange Rule	
Sanitary Flange 316 Stainless Steel	Limited by fitting size, clamp size & temperature	
PVDF	100 PSI / 6.9 BAR	

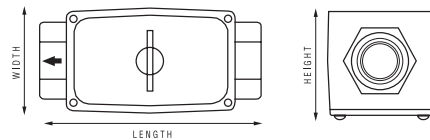
Operating Temperature Range:	-40° F to +250° F (-40° C to +121° C)	
	(PVDF) -20° F to +180° F (-28° C to +82° C)	
with Computer:	0° F to +140° F (-18° C to +60° C)	
Typical K-Factor:	1/2" (05)	2,500 PPG / 660 PPL
	3/4" (07)	1,100 PPG / 291 PPL
	1" (10)	565 PPG / 149 PPL
	1-1/2" (15)	215 PPG / 57 PPL
	2" (20)	100 PPG / 26 PPL
Wetted Materials:	Housing:	316 Stainless Steel, Aluminum or Brass
	Bearings:	96% Alumina Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	PVDF
	Rings:	316 Stainless Steel
Wetted Materials PVDF:	Housing:	PVDF (15% Carbon Fiber Filled)
	Bearings & Shaft:	98% Alumina Ceramic
	Rotor:	PVDF
	Rings:	Fluorocarbon (Optional PTFE)
Frequency Range:	1/2" (05)	42 - 420 Hz @ 1 - 10 GPM / 48 - 480 Hz @ 1.2 - 12 GPM (PVDF)
	3/4" (07)	37 - 370 Hz @ 2 - 20 GPM
	1" (10)	47 - 470 Hz @ 5 - 50 GPM / 45 - 450 Hz @ 5 - 50 GPM (PVDF)
	1-1/2" (15)	36 - 360 Hz @ 10 - 100 GPM
	2" (20)	33 - 330 Hz @ 20 - 200 GPM
Calibration Report:	Comes standard with G2 Series meters. N.I.S.T. - Certification available.	

DIMENSIONS

NOTE: 09 Display adds 0.67 in. (17 mm) to height.

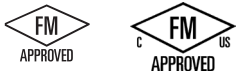
NPT/ISO

Meter Size	Length (mm)	Height (mm)	Width (mm)	Meter Size	Length (mm)	Height (mm)	Width (mm)
1/2"	4.2 (107)	1.8 (46)	2.0 (51)	2"	6.3 (160)	3.2 (81)	3.3 (84)
3/4"	4.3 (109)	2.0 (51)	2.0 (51)	PVDF 1/2"	7.3 (185)	3.2 (81)	2.1 (53)
1"	4.5 (114)	2.2 (56)	2.0 (51)	PVDF 1"	8.1 (206)	3.3 (84)	2.8 (71)
1-1/2"	5.3 (135)	2.8 (71)	2.7 (68)				



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**

APPROVALS



IP65 IECEx

NEMA 4

ACCESSORIES / ELECTRONICS

Part No.	Description
113435-1	Conditioned Signal Module
125060-1	Pulse Access Module
125070-1	External Power Module
125100-1	4-20 mA Module
120077-01	FM Approved Sensor
113524-01	Connector Kit For FM Approved Sensor
12530010	RS 232 / RS 484 Module
GA 500 (Remote)	4-20 mA Transmitter
GA510 (Local)	4-20 mA Transmitter
GG 500 (Remote)	Display w/ Pulse Out

Part No.	Description
GG 510 (Local)	Display w/ Pulse Out
GX 500 (Remote)	Display w/ 4-20 mA Transmitter
GX 510 (Local)	Display w/ 4-20 mA Transmitter
SC 500 (Remote)	Scaled Pulse
SC 510 (Local)	Scaled Pulse
11344001	510 Conversion Kit
125260-01	90 Degree Display Adaptor Kit
113800-06	GPI Electronics Programmer
113265-1	Standard Remote Kit
113275-1	FM Approved Remote Kit

Wichita · Sydney · Mexico City

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