



## 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

<b>Fitting Type:</b>	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	
<b>Housing Material:</b>	316 Stainless Steel, Aluminum, Brass, PVDF	
<b>Meter Sizes Available:</b>	1/2" 3/4" 1" 1-1/2" 2"	
<b>Flow Range:</b>	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)
<b>Accuracy (% of Reading):</b>	<b>Turbine Only</b>	<b>Turbine w/Computer</b>
	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%
<b>Repeatability:</b>	± 0.1% (PVDF is ± 0.3%)	
<b>Pressure Rating:</b>		
<b>316 Stainless Steel</b>	1,500 PSI / 102 BAR	
<b>Aluminum</b>	300 PSI / 21 BAR	
<b>Brass</b>	300 PSI / 21 BAR	
<b>High Pressure 316 Stainless Steel</b>	3000 PSI / 207 BAR (CE Approval ONLY)	
<b>ANSI Flange 316 Stainless Steel</b>	Flange Rule	
<b>Sanitary Flange 316 Stainless Steel</b>	Limited by fitting size, clamp size & temperature	
<b>PVDF</b>	100 PSI / 6.9 BAR	

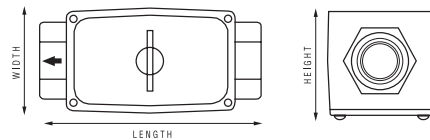
<b>Operating Temperature Range:</b>	-40° F to +250° F (-40° C to +121° C)	
	(PVDF) -20° F to +180° F (-28° C to +82° C)	
<b>with Computer:</b>	0° F to +140° F (-18° C to +60° C)	
<b>Typical K-Factor:</b>	1/2" (05)	2,500 PPG / 660 PPL
	3/4" (07)	1,100 PPG / 291 PPL
	1" (10)	565 PPG / 149 PPL
	1-1/2" (15)	215 PPG / 57 PPL
	2" (20)	100 PPG / 26 PPL
<b>Wetted Materials:</b>	Housing:	316 Stainless Steel, Aluminum or Brass
	Bearings:	96% Alumina Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	PVDF
	Rings:	316 Stainless Steel
<b>Wetted Materials PVDF:</b>	Housing:	PVDF (15% Carbon Fiber Filled)
	Bearings & Shaft:	98% Alumina Ceramic
	Rotor:	PVDF
	Rings:	Fluorocarbon (Optional PTFE)
<b>Frequency Range:</b>	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
<b>Calibration Report:</b>	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

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