A full line of FLومEC® 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
- Blending
- Water
- Industrial Fluids
- Plating Solutions
- Ammonium
- Food & Beverage Processing
- Fuel Products
- Monitoring Clean Fluids
- Plant Process Water
- Chemical Feed Lines
- Harsh Chemicals (Sulfuric Acid & Bleach)

**PRODUCT CONFIGURATION**

**PRODUCT IDENTIFIER**

G2 = Industrial Grade Flowmeter

**TURBINE MATERIAL**

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

**TURBINE SIZE**

- 05 = ½ inch
- 07 = ¾ inch
- 10 = 1 inch
- 15 = 1-½ inch
- 20 = 2 inch

**FITTING TYPE**

- 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**

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

- Turbine, Local Transmitter, with No Display
  - 80 = Unscaled Pulsed Transmitter (Open Collector)
  - 81 = QSI Version 1 (Scaled Pulse, RS485 [MODbus or BACnet], BTU Calculator, Bluetooth)
  - 82 = QSI Version 2 (Scaled Pulse, Data Logger, BTU Calculator, Bluetooth)
  - 83 = QSI Version 3 (Scaled Pulse, Data Logger, 4-20mA, Bluetooth)

- No Electronics – Turbine Only
  - XX = No Electronics - Turbine Only

**CALIBRATION**

- GM = GPM & L/min (Gallons Default)
- LM = GPM & L/min (Litres Default)
- XX = No Calibration (Use with Electronic Choices 41, 71, 72 or Turbine Only)

**PACKAGING**

- A = Use for Turbine Only or 09 Electronics choice (Sizes 05-10)
- B = Use for Turbine Only or 09 Electronics choice (Sizes 15-20)
- C = Use for 19 Electronics choice (Sizes 05-10)
- D = Use for Turbine Only or 09 Electronics choice, with ANSI Flange (Sizes 10) Use for 19 Electronics choice with ANSI Flange (Sizes 15-20)
- E = Use for Turbine Only or 09 Electronics choice, with ANSI Flange (Sizes 15-20) Use for 19 Electronics choice with ANSI Flange (Sizes 15-20)
- F = Use for 80 thru 93 Electronics choice, with ANSI Flange (Sizes 10)
- G = Use for 80 thru 93 Electronics choice, with ANSI Flange (Sizes 15-20)
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 - 38 L/min)  
1/2” (05) PVDF only 1.2 - 12 GPM (4.5 - 45 L/min)  
3/4” (07) 2 - 20 GPM (7.6 - 76 L/min)  
1” (10) 5 - 50 GPM (19 - 190 L/min)  
1-1/2” (15) 10 - 100 GPM (38 - 380 L/min)  
2” (20) 20 - 200 GPM (76 - 760 L/min)  

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%)  

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 Display:  
14° F to 140° F (-10° C to 60° C)  

Typical K-Factor:  
1/2” (05) 2,500 PPG (660 Pulses/L)  
3/4” (07) 1,100 PPG (291 Pulses/L)  
1” (10) 565 PPG (149 Pulses/L)  
1-1/2” (15) 215 PPG (57 Pulses/L)  
2” (20) 100 PPG (26 Pulses/L)  

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 (3.8-38 L/min) / 48-480 Hz @ 1.2-12 GPM (4.5-45 L/min) (PVDF)  
3/4” (07) 37-370 Hz @ 2-20 GPM (7.6-76 L/min)  
1” (10) 47-470 Hz @ 5-50 GPM (19-190 L/min) / 45-450 Hz @ 5-50 GPM (19-190 L/min) (PVDF)  
1-1/2” (15) 36-360 Hz @ 10-100 GPM (38-380 L/min)  
2” (20) 33-330 Hz @ 20-200 GPM (76-760 L/min)  


PVDF Dimensions:  
NPT/ISO  
NOTE: 09 Display adds 0.67 in. (17 mm) to height.  

<table>
<thead>
<tr>
<th>Meter Size</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
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<tbody>
<tr>
<td>1/2” (05)</td>
<td>4.2 (107)</td>
<td>1.8 (46)</td>
<td>2.0 (51)</td>
<td>6.3 (160)</td>
<td>3.2 (81)</td>
<td>3.3 (84)</td>
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<tr>
<td>3/4” (07)</td>
<td>4.3 (109)</td>
<td>2.0 (51)</td>
<td>2.0 (51)</td>
<td>7.3 (185)</td>
<td>3.2 (81)</td>
<td>2.1 (53)</td>
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<tr>
<td>1” (10)</td>
<td>4.5 (114)</td>
<td>2.2 (56)</td>
<td>2.0 (51)</td>
<td>8.1 (206)</td>
<td>3.3 (84)</td>
<td>2.6 (71)</td>
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<tr>
<td>1-1/2” (15)</td>
<td>5.3 (135)</td>
<td>2.8 (71)</td>
<td>2.7 (68)</td>
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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  
120077-02 ATEX Approved Sensor  
125260-01 90 Degree Display Adaptor Kit  
113275-1 FM Approved Remote Kit  

Part No. Description  
145505-01 Kit, Adapter, G2-QSI1-Q09 Display  
145505-02 Kit, Adapter, G2-QSI2-Q09 Display  
145505-03 Kit, Adapter, G2-QSI3-Q09 Display  
145505-04 Kit, Adapter, G2-QSI1-No Display  
145505-05 Kit, Adapter, G2-QSI2-No Display  
145505-06 Kit, Adapter, G2-QSI3-No Display  
145505-07 Kit, Adapter, G2-QSI1-Display Ready  
145505-08 Kit, Adapter, G2-QSI2-Display Ready  
145505-09 Kit, Adapter, G2-QSI3-Display Ready