

G2 SERIES NON-HAZARDOUS AREA (SAFE AREA ONLY)



SPECIFICATIONS

Fitting Type:	NPT or ISO (Female) BSPT (ISO 7 designation is RC)		
	150# ANSI (S10, S15 & S20 only)		
	Tri-Clamp (Stainless Steel only) - Fitting size is one size bigger than meter size		
Meter Sizes Available:	½" ¾" 1" 1½" 2"		
Corresponding Tri-Clamp Fitting:	¾" 1" 1½" 2" 2½"		
Housing Material:	316 Stainless Steel, Aluminum, PVDF		
Flow Range:	½" (05)	1 - 10 GPM (3.8 - 38 L/min)	
	½" (05) PVDF only	1.2 - 12 GPM (4.5 - 45 L/min)	
	¾" (07)	2 - 20 GPM (7.6 - 76 L/min)	
	1" (10)	5 - 50 GPM (19 - 190 L/min)	
	1½" (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	
	½" (05)	± 2.0%	± 1.5%
	¾" (07)	± 1.5%	± 1.0%
	1" (10)	± 1.5%	± 1.0%
	1½" (15)	± 1.0%	± 0.75%
	2" (20)	± 1.0%	± 0.75%
Repeatability:	± 0.1% (PVDF is ± 0.3%)		
Pressure Rating:			
Stainless Steel 316 SS	1,500 psi (102 bar)		
Aluminum	300 psi (21 bar)		
ANSI Flange 316 SS	Flange Rule		
Sanitary Flange 316 SS	Limited by fitting, 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 Display:	0°F to 140°F (-18°C to 60°C)*		
with Hi-Temp. Riser (H9):	0°F to 185°F (-18°C to 85°C)*		

*See Ambient and Fluid Temperature Limits graph on the operating temperature range. Shown on next page.

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

- Stainless Steel for most non-volatile products
- Aluminum for non-volatile petroleum-based products
- PVDF for aggressive chemicals

FEATURES / BENEFITS

- Features highly visible Q9, battery-powered, LCD display; 2-year battery life
- Add the 4-20mA / Scaled Pulse Module to your turbine meter display electronics to provide an industry-standard analog signal for connection to a variety of chart recorders, display equipment, and process control equipment. See Optional Output Module details.
- 11 preprogrammed engineering units plus 1 custom option: gallon, liter, imperial gallon, quart, ounce, acre-foot, milliliter, cubic foot, cubic centimeter, cubic meter, barrel
- High accuracy meter – view SPECIFICATIONS of each SKU once meter options are selected
- Modular design allows for use with output modules, sensors, and remote display kits; plug and play
- Internal parts are simple to replace for easy maintenance
- NPT, ISO 7, #150 ANSI Flange, and Tri-clamp fitting options
- Tri-clamp (not food grade) options available:
 - ¾ inch fitting for ½ inch meter
 - 1 inch fitting for ¾ inch meter
 - 1½ inch fitting for 1 inch meter
 - 2 inch fitting for 1½ inch meter
 - 2½ inch fitting for 2 inch meter

APPROVALS



NEMA
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IP65



SPECIFICATIONS CONTINUED

Typical K-Factor:	½" (05)	2,500 PPG (660 Pulses/L)
	½" (05)	2,400 PPG (633 Pulses/L) (PVDF)
	¾" (07)	1,100 PPG (291 Pulses/L)
	1" (10)	565 PPG (149 Pulses/L)
	1" (10)	540 PPG (142 Pulses/L) (PVDF)
	1½" (15)	215 PPG (57 Pulses/L)
	2" (20)	100 PPG (26 Pulses/L)
Wetted Materials:	Housing:	316 Stainless Steel or Aluminum
	Bearings:	96% Alumina Oxide 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:	½" (05)	42-420 Hz @ 1-10 GPM (3.8-38 L/min) / 45-450 Hz @ 1.2-12 GPM (4.5-45 L/min) (PVDF)
	¾" (07)	37-370 Hz @ 2-20 GPM (7.6-76 L/min)
	1" (10)	47-470 Hz @ 5-50 GPM (19-190 L/min) / 45-475 Hz @ 5-50 GPM (19-190 L/min) (PVDF)
	1½" (15)	36-360 Hz @ 10-100 GPM (38-380 L/min)
	2" (20)	33-330 Hz @ 20-200 GPM (76-760 L/min)
Calibration Report:	Comes standard with G2 Series meters.	
	N.I.S.T. – Certification available.	

DIMENSIONS NOTE: Q9 Display adds 0.72 in. (18 mm) to height

Stainless Steel (SS) and SS High Pressure Models

	S05 & H05 ½ in.	S07 & H07 ¾ in.	S10 & H10 1 in.	S15 & H15 1½ in.	S20 & H20 2 in.
A = Height	1.4 in. (35.6 mm)	1.6 in. (40.6 mm)	1.9 in. (48.3 mm)	2.6 in. (66.0 mm)	3.1 in. (78.7 mm)
B = Width	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.7 in. (68.6 mm)	3.4 in. (86.4 mm)
C = Length	4.2 in. (106.7 mm)	4.3 in. (109.2 mm)	4.5 in. (114.3 mm)	5.3 in. (134.6 mm)	6.3 in. (160.0 mm)

Aluminum Models

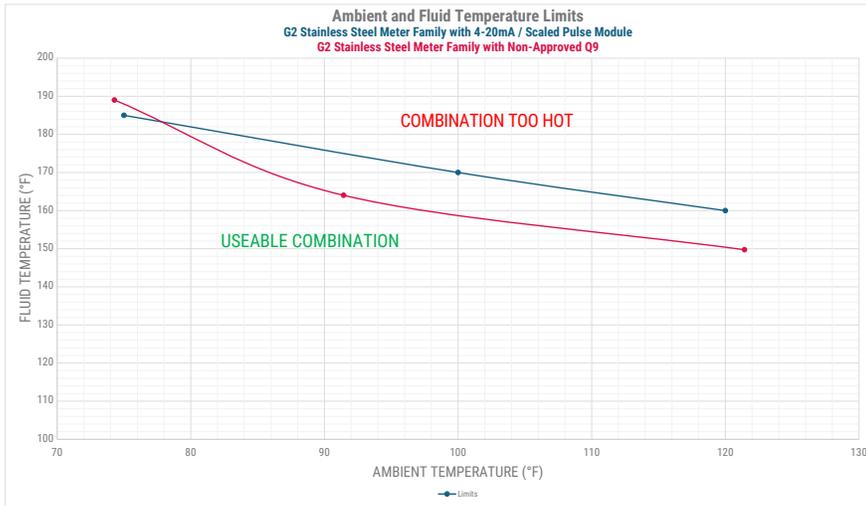
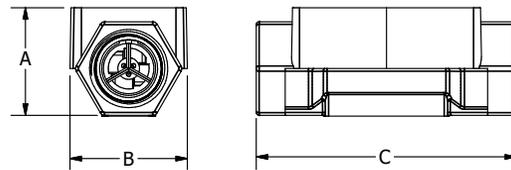
	A05, ½ in.	A07, ¾ in.	A10, 1 in.	A15, 1½ in.	A20, 2 in.
A = Height	1.8 in. (45.7 mm)	2.0 in. (50.8 mm)	2.2 in. (55.9 mm)	2.8 in. (71.1 mm)	3.2 in. (81.3 mm)
B = Width	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.7 in. (68.6 mm)	3.3 in. (83.8 mm)
C = Length	4.2 in. (106.7 mm)	4.3 in. (109.2 mm)	4.5 in. (114.3 mm)	5.3 in. (134.6 mm)	6.3 in. (160.0 mm)

PVDF Models

	P05, ½ in.	P10, 1 in.
A = Height	3.2 in. (81.3 mm)	3.3 in. (83.8 mm)
B = Width	2.1 in. (53.3 mm)	2.8 in. (71.1 mm)
C = Length	7.3 in. (185.4 mm)	8.1 in. (205.7 mm)

NOTE: For representation purpose only. Actual product models vary in shape, design, etc.

ANSI Flange and Sanitary Flange dimensions not shown. For those dimensions, please refer to product manuals or our website GreatPlainsIndustries.com.



APPLICATIONS

- Batching
- Blending
- Water
- Industrial fluids
- Plating solutions
- Ammonium
- Food and beverage processing
- Monitoring clean fluids
- Plant process water
- Chemical feed lines
- Harsh chemicals (sulfuric acid and bleach)

ACCESSORIES

113275-10
FM Approved* Remote Kit



113435-10
Conditioned Signal Module



125100-10
4-20 mA Module



125260-02
90° Display Adapter Kit



125527-01
Q9 Hi-Temp Riser Kit



*Does not make Non-FM Approved meters FM Approved