

The unique modular approach of the Industrial Grade Meter line allows you to design a meter to match your specific application. Turbine choice depends on flowrate, line size, pressure rating, fitting type, chemical compatibility and temperature range. When choosing a G2 Series Meter, select from our wide variety of materials and sizes. These meters offer high accuracy at a lower cost, are compact and include a selfcontained design. G2 Series Meters are field serviceable. Electronic choices for the G2 Series Meters are covered in Section 6.

Build-Your-Own G2 Meter

1) Select Your Turbine Material and Size

Turbine choice depends on flowrate, line size, pressure rating, fitting type, chemical compatibility and temperature range.



Stainless Steel



Aluminum (Shown with 09 Computer)



Brass (Shown with 09 Computer)



PVC (Shown with 09 Computer)



PVDF



2) Need A Computer?



09 Computer



XX No Computer



Or Choose an Electronics (For further details and selections see page 56.)

3) Add a Module?

For further details and selections see pages 22-25.



Standard Remote Kit







Conditioned Signal Output Module



External Power Module (Pulse Access Module Required)



Pulse Access Module



4) Do You Require Any Accessories?

For further details and selections see page 26.











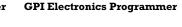
FM Approved Sensor Kit

Conduit Adapter Kit

90° Display Adapter Kit

510 Conversion Kit

Pulse Access Dust Cover



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G2 Meter Number Reference

Product Identifier G2 = Industrial Grade Meter **Turbine Material & Size Metal Meters: Plastic Meters:** S05 = Stainless Steel - 1/2 in.**A05** = Aluminum - 1/2 in. C05 = PVC - 1/2 in. C10 = PVC - 1 in.**S07** = Stainless Steel -3/4 in. **A07** = Aluminum – 3/4 in. **S10** Stainless Steel – 1 in. **P05** = PVDF - 1/2 in. = **A10** = Aluminum – 1 in. **S15** = Stainless Steel -1-1/2 in. **P10** = PVDF - 1 in. Aluminum -1-1/2 in. A15 =S20 = Stainless Steel – 2 in. **A20** = Aluminum – 2 in. H05 = Stainless Steel High Pressure - 1/2 in. **B05** = Brass -1/2 in. H07 =Stainless Steel High Pressure - 3/4 in. B07 =Brass - 3/4 in. H10 = Stainless Steel High Pressure – 1 in. **B10** = Brass -1 in. **Meter Dimensions** H15 = Stainless Steel High Pressure - 1-1/2 in. **B15** = Brass - 1-1/2 in. listed on pages 69-71. H20 = Stainless Steel High Pressure – 2 in. **B20** = Brass - 2 in. Fitting Type F 150# ANSI Flange - available on S10, S15 and S20 only = Ι = ISO (Female) Ν = NPT (Female) т = Tri-Clover® Fitting - available on S05 - S20 only w = Solvent Weld - available on PVC only х = Electronics Only - for metal meters 7. Electronics Only - for plastic meters **Electronic Choice Turbine with Local Display** 09 = 2 Button Computer, Field Configurable (2 Totals, 2 Calibrations, Rate) 19 = Vertical Mount 2-Button Computer, Field Configurable (2 Totals, 2 Calibrations, Rate) **Pulse Output (Remote)** 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 – Display with Pulse Output (Remote) 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 - Display with 4-20 mA Output (Remote) 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 - 4-20 mA Output (Remote) 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 GM = Gallons / Minute **LM** = Litres / Minute XX = No Computer Packaging A = Use for Turbine Only or Turbine w/Display (Sizes 05-10) Use for Turbine Only or Turbine w/Display (Sizes 15-20) = С = Use for Turbine with Remote Transmitter With or Without Turbine Mounted Display (Sizes 05-20) Use for 150# ANSI Flange Turbine Only (Size 10) **D** = E = Use for 150# ANSI Flange Turbine Only (Sizes 15-20) Use for 150# ANSI Flange Turbine with Remote Transmitter (Sizes 10, 15 or 20) G2 **S07** 09 GM A (Sample Model Number)

SECTION 2: G2 INDUSTRIAL GRADE METERS

BUY SMART. BUY VALUE. BUY

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G2 Industrial Meters - Stainless Steel



The GPI Stainless Steel Meter line has a proven track record in the industrial market. GPI Stainless Steel Meters are rugged and dependable. Use stainless steel meters for most chemicals: Ammonium, Plating Solutions and Fuel products.

Select Your Meter Size:

1/2 inch 3/4 inch 1 inch 1-1/2 inch 2 inch



Features and Benefits:

- Stainless steel meters have excellent chemical compatibility.
- Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.
- High accuracy meter.
- Internal parts are simple to replace for easy maintenance.
- Powered by Lithium batteries for approximately 9,000 hours.
- Accessories easily upgrade meter.

STAI	INLESS STE	EL - SPECIFICATIONS		
Fitting Type:	Fitting Type: NPT or ISO (Female)			
Housing Material:		316 Stainless Steel		
Meter Sizes Availa	ıble:	1/2" 3/4" 1" 1-1/2" 2"		
Flow Range:	1/2" (S05)	1 - 10 GPM (3.8 - 37.9 LPM)		
	3/4" (S07)	2 - 20 GPM (7.6 - 75.7 LPM)		
	1" (S10)	5 - 50 GPM (18.9 - 190 LPM)		
	1-1/2" (S15)	10 - 100 GPM (38.0 - 380 LPM)		
Accuracy (0/ of Do	2" (\$20)	20 - 200 GPM (76 - 760 LPM)		
Accuracy (% of Re	aung): 1/2" (S05)	Turbine OnlyTurbine w/Computer± 2.0%± 1.5%		
	3/4" (S07)	$\pm 1.5\%$ $\pm 1.0\%$		
	1" (S10)	± 1.5% ± 1.0%		
	1-1/2" (S15)	± 1.0% ± 0.75%		
	2" (S20)	± 1.0% ± 0.75%		
Repeatability:		± 0.1%		
Pressure Rating:		1,500 PSI / 102 BAR		
Operating Tempera	ature Range:	-40°F to +250°F (-40°C to +121°C)		
wit	h Computer:	+14°F to +140°F (-10°C to +60°C)		
Typical K-Factor:	1/2" (\$05)	2,500		
	3/4" (S07)	1,100		
	1" (S10)	565		
	1-1/2" (S15) 2" (S20)	215 100		
Wetted Materials:	2" (\$20) Housing:	316 Stainless Steel		
Welleu Materiais.	Bearings:	Ceramic		
	Shaft:	Tungsten Carbide		
	Rotor:	PVDF		
	Rings:	316 Stainless Steel		
Frequency Range:	1/2" (S05)	42 - 420 Hz @ 1 - 10 GPM		
	3/4" (S07)	37 - 370 Hz @ 2 - 20 GPM		
	1" (S10)	47 - 470 Hz @ 5 - 50 GPM		
	1-1/2" (S15)	36 - 360 Hz @ 10 - 100 GPM		
Doormmanded Of	2" (S20) 33 - 330 Hz @ 20 - 200 GPM Recommended Strainer Size:			
Recommended Sti	alner Size: 1/2" (S05)	55 mesh		
	3/4" (S07)	55 mesh		
	1" (S10)	55 mesh		
	1-1/2" (S15)	28 mesh		
	2" (S20)	28 mesh		
Maximum Flow:	1/2" (S05)	15 GPM (56.8 LPM)		
	3/4" (S07)	30 GPM (113.6 LPM)		
	1" (\$10)	75 GPM (284 LPM)		
	1-1/2" (S15) 2" (S20)	150 GPM (568 LPM) 300 GPM (1,136 LPM)		
Wrench Flat Size:	1/2" (S05)	1-1/16 inch (27 mm)		
Without in at 0126.	3/4" (S07)	1-5/16 inch (33 mm)		
	1" (S10)	1-5/8 inch (41 mm)		
	1-1/2" (\$15)	2-3/8 inch (60 mm)		
	2" (S20)	3 inch (75 mm)		
Shipping Weight:	1/2" (S05)	2.3 lbs./1.1 kg - Turbine Only: 2.1 lbs./.95 kg		
	3/4" (S07)	2.5 lbs./1.1 kg - Turbine Only: 2.3 lbs./1.0 kg		
	1" (\$10) 1-1/2" (\$15)	3.0 lbs./1.3 kg - Turbine Only: 2.8 lbs./1.2 kg 4.6 lbs./2.0 kg - Turbine Only: 4.4 lbs./2.0 kg		
	2" (\$20)	6.8 lbs./3.0 kg - Turbine Only: 6.6 lbs./3.0 kg		
		ONIC CHOICES		
Local Display, Rer				
	& Remote Transmitter Options: See Section 6.			
	APPROVALS			
FM> (II.) (€	Ex NEMA ATEX IP44		
APPROVED CUL		4		
		BUY SMART. BUY VALUE. BUY		

G2 Industrial Meters - High Pressure



This is the turbine meter of choice for high pressure applications like spray washers and hydraulic systems. PSIG for the GPI High Pressure Meter is 3,000 compared to 1,500 for the standard stainless steel meter. This proven meter can perform in all kinds of high pressure applications.

Select Your Meter Size:

1/2 inch 3/4 inch 1 inch 1-1/2 inch 2 inch



Features and Benefits:

High pressure and high accuracy.

- Excellent chemical compatibility.
- Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.
- Internal parts are simple to replace for easy maintenance.
- Powered by Lithium batteries for approximately 9,000 hours.

HIGH PRE	SSURE - SPECIFICATIONS		
Fitting Type:	NPT or ISO (Female)		
Housing Material:	316 Stainless Steel		
Meter Sizes Available:	1/2" 3/4" 1" 1-1/2" 2"		
Flow Range: 1/2" (HO			
3/4" (HO			
1" (H10)			
1-1/2" (H	15) 10 - 100 GPM (38.0 - 380 LPM)		
2" (H20)	20 - 200 GPM (76 - 760 LPM)		
Accuracy (% of Reading):	Turbine Only Turbine w/Computer		
1/2" (H0			
3/4" (HO	•		
1" (H10) 1-1/2" (H			
2" (H20)	$\pm 1.0\%$ $\pm 0.75\%$		
Repeatability:	± 0.1%		
• •			
Pressure Rating:	3,000 PSI / 207 BAR		
Operating Temperature Ran with Comput			
•			
Typical K-Factor: 1/2" (H0 3/4" (H0			
1" (H10)			
1-1/2" (H			
2" (H20)			
Wetted Materials: Housing:	316 Stainless Steel		
Bearings			
Shaft:	Tungsten Carbide		
Rotor:	PVDF		
Rings:	316 Stainless Steel		
Frequency Range: 1/2" (HO			
3/4" (HO			
1" (H10) 1-1/2" (H			
2" (H20)			
Recommended Strainer Siz			
1/2" (Ho			
3/4" (HO	·		
1" (H10)			
1-1/2" (H	115) 28 mesh		
2" (H20)	28 mesh		
Maximum Flow: 1/2" (HO			
3/4" (HO			
1" (H10)			
1-1/2" (H 2" (H20)	I15) 150 GPM (568 LPM) 300 GPM (1,136 LPM)		
Wrench Flat Size: 1/2" (HO			
3/4" (HO			
1" (H10)	1-5/8 inch (41 mm)		
1-1/2" (H			
2" (H20)	3 inch (75 mm)		
Shipping Weight: 1/2" (HO			
3/4" (HO			
1" (H10)	3.0 lbs./1.3 kg - Turbine Only: 2.8 lbs./1.2 kg		
1-1/2" (H 2" (H20)	 4.6 lbs./2.1 kg - Turbine Only: 4.4 lbs./2.0 kg 6.8 lbs./3.0 kg - Turbine Only: 6.6 lbs./3.0 kg 		
	CTRONIC CHOICES		
Local Display, Remote Display			
& Remote Transmitter Opti	-		
option option option	APPROVALS		
	CE		

BUY SMART. BUY VALUE. BUY

G2 Industrial Meters - ANSI Flange



Select stainless steel meters with 150# ANSI Flanges when you need a meter that installs in-line quickly. Flange Meters are easily installed and removed with four bolts. Combine with GPI's Computer Electronics for a complete, accurate, metering system.

Select Your Meter Size:

l inch

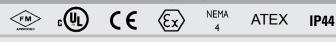
1-1/2 inch 2 inch



Features and Benefits:

- Stainless steel meters have excellent chemical compatibility.
- Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.
- Precision accuracy meter.
- Internal parts are simple to replace for easy maintenance.
- Powered by Lithium batteries for approximately 9,000 hours.
 - Accessories easily upgrade meter.

	NSI FLANGE		
Fitting Type:		150# ANSI Flang	ge
Housing Material:		316 Stainless St	teel
Meter Sizes Availa	ble:	1" 1-1/2"	2"
Flow Range:	1" (S10F)	5 - 50 GPM	(18.9 - 190 LPM)
	1-1/2" (S15F)	10 - 100 GPM	(38.0 - 380 LPM)
	2" (S20F)	20 - 200 GPM	(76 - 760 LPM)
Accuracy (% of Re		Turbine Only	Turbine w/Computer
	1" (S10F)	± 1.5%	± 1.0%
	1-1/2" (S15F)	± 1.0%	± 0.75%
	2" (S20F)	± 1.0%	± 0.75%
Repeatability:		± 0.1%	
Pressure Rating:		Flange Rule	
Operating Tempera	ature Range:	-40°F to +250°F	(-40°C to +121°C)
wit	h Computer:	+14°F to +140°F	- (-10°C to +60°C)
Typical K-Factor:	1" (S10F)	565	
	1-1/2" (S15F)	215	
	2" (S20F)	100	
Wetted Materials:	Housing:	316 Stainless St	teel
	Bearings:	Ceramic	
	Shaft:	Tungsten Carbid	le
	Rotor:	PVDF	
	Rings:	316 Stainless St	
Frequency Range:		47 - 470 Hz @ 5	
	1-1/2" (S15F) 2" (S20F)	36 - 360 Hz @ 1 33 - 330 Hz @ 2	
D		33 - 330 HZ @ 2	.0 - 200 GFIVI
Recommended Str	ainer Size: 1" (S10F)	55 mesh	
	1 (STUF) 1-1/2" (S15F)	28 mesh	
	2" (S20F)	28 mesh	
Maximum Flow:	1" (S10F)	75 GPM (284 L	PM)
	1-1/2" (S15F)	150 GPM (568	
	2" (S20F)	300 GPM (1,13	
Shipping Weight:	1" (S10F)		Furbine Only: 7.0 lbs./3.2 kg
	1-1/2" (S15F)		Turbine Only: 11.1 lbs./5.0 kg
	2" (S20F)	18.6 lbs./8.4 kg -	Turbine Only: 18.4 lbs./8.3 kg
	ELECTRO	NIC CHOIC	ES
Local Display, Re	mote Display		
& Remote Transn	& Remote Transmitter Options: See Section 6.		
	APP	ROVALS	



BUY SMART. BUY VALUE. BUY

G2 Industrial Meters - Tri-Clover®



The GPI Stainless Steel Meters with Tri-Clover[®] fittings can be used with food and beverage industries in preprocess applications. Built of stainless steel construction, these meters come in five sizes to fit most every application.

Select Your Meter Size:

1/2 inch Meter with 3/4 inch Fitting
3/4 inch Meter with 1 inch Fitting
1 inch Meter with 1-1/2 inch Fitting
1-1/2 inch Meter with 2 inch Fitting
2 inch Meter with 2-1/2 inch Fitting



Features and Benefits:

Stainless steel meter with Tri-Clover® fittings.

- Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.
 - Internal parts are easy to replace.
 - Powered by Lithium batteries for approximately 9,000 hours.
 - Accessories easily upgrade meter.

T	RI-CLOVER	[®] - SPEC	IFIC	ATIOI	NS	
Fitting Type:		Tri-Clover				
Housing Material:		316 Stain		el		
Meter Sizes Availa	ahla:		3/4"	1"	1-1/2"	2"
		3/4"		1-1/2"	2"	2-1/2"
Tri-Clover® Fitting					_	2-1/2
Flow Range:	1/2" (S05T)	1 - 10 GF		`	7.9 LPM)	
	3/4" (S07T)	2 - 20 GF 5 - 50 GF		•	5.7 LPM)	
	1" (S10T) 1-1/2" (S15T)	10 - 100		•	190 LPM) 380 LPM)	
	2" (S20T)	20 - 200		•	500 LPINI) 60 LPM)	
Assurant (0/ of Do	. ,				,	
Accuracy (% of Re	1/2" (S05T)	Turbine (± 2.0%			e w/Compu 1.5%	ller
	3/4" (S07T)	± 2.07			1.0%	
	1" (S10T)	± 1.5%			1.0%	
	1-1/2" (S15T)	± 1.0%).75%	
	2" (S20T)	± 1.0%).75%	
Repeatability:	- ()	± 0.1%	-			
Pressure Rating:			v fitting		amn oize (tomp
-	atom Davis				amp size &	
Operating Tempera					to +121°C)
	th Computer:		+140°F	(-10°C	to +60°C)	
Typical K-Factor:		2,500				
	3/4" (S07T)	1,100				
	1" (S10T)	565 215				
	1-1/2" (S15T) 2" (S20T)	100				
	, ,					
Wetted Materials:	-	316 Stain	ess Ste	el		
	Bearings:	Ceramic	Carbida			
	Shaft: Rotor:	Tungsten PVDF	Carbide	;		
	Rings:	316 Stain	occ Sta	ام		
Freesense Deser	-				N 4	
Frequency Range:	• •	42 - 420 H 37 - 370 H				
	3/4" (S07) 1" (S10T)	47 - 470 1				
	1-1/2" (S15T)	36 - 360 H				
	2" (S20T)	33 - 330 H				
Recommended Str	· · · ·					
neconinentee ou	1/2" (S05T)	55 mesh				
	3/4" (S07T)	55 mesh				
	1" (S10T)	55 mesh				
	1-1/2" (S15T)	28 mesh				
	2" (S20T)	28 mesh				
Maximum Flow:	1/2" (S05T)	15 GPM	56.8 LI	PM)		
	3/4" (S07T)	30 GPM	•	,		
	1" (S10T)	75 GPM				
	1-1/2" (S15T)	150 GPM	(568 L	.PM)		
	2" (S20T)	300 GPM	(1,136	LPM)		
Shipping Weight:	1/2" (S05T)	2.5 lbs./1	0 kg - 1	Furbine	Only: 2.3 I	os./1.0 kg
	3/4" (S07T)				Only: 2.7 I	
	1" (S10T)				Only: 3.0 I	
	1-1/2" (S15T)		-		Only: 4.5 I	-
	2" (S20T)		-		Only: 6.3 l	os./2.8 kg
	ELECTRO	ONIC C	HOIC	ES		
Local Display, Re	mote Display					
& Remote Transm	nitter Options:	See Secti	on 6.			
	AP	PROVAI	S			
			NEMA	\ .		ID44
) (E	(x3)	4	A	TEX	IP44

SECTION 2: G2 INDUSTRIAL GRADE M

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G2 Industrial Meters - Aluminum



GPI offers a full line of Industrial Meters in a variety of housing materials. Aluminum meters are best suited for petroleum based products. The modular design allows for maximum flexibility in meeting custom applications. Models are available with ISO or NPT fittings.

Select Your Meter Size:

1/2 inch 3/4 inch 1 inch 1-1/2 inch 2 inch



Features and Benefits:

- High precision, durable and compact turbine flowmeters.
- Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.
- Internal parts are simple to replace for easy maintenance.
- Lightweight, compact design allows for easy installation.
- Powered by Lithium batteries for approximately 9,000 hours.

	JUM -	SPECIFIC		ONS		
Fitting Type:		NPT or ISO (Female)			
Housing Material:		Aluminum				
Meter Sizes Available:		1/2" 3/4"	" 1	" 1-1/	2"	2"
Flow Range: 1/2" (A0		1 - 10 GPM		- 37.9 LPM		
3/4" (A0		2 - 20 GPM	1 .	- 75.7 LPM	/	
1" (A10)	/	5 - 50 GPM	``) - 190 LPN	/	
1-1/2" (/		10 - 100 GPN				
2" (A20))	20 - 200 GPN	,	,		_
Accuracy (% of Reading):	. _\	Turbine Only	Tu	rbine w/Co	-	
1/2" (A0 3/4" (A0		± 2.0% ± 1.5%		± 1.5% ± 1.0%		
1" (A10)		± 1.5%		± 1.0%		
1-1/2" (/		± 1.0%		± 0.75%		
2" (A20)		± 1.0%		± 0.75%		
Repeatability:	,	± 0.1%				_
Pressure Rating:		300 PSI / 21	BAR			
•		-40°F to +250		10C to . 101	00)	
Operating Temperature Ran with Compu		+14°F to +250				
•		2,500	J (-10	0 10 +00	0)	
Typical K-Factor: 1/2" (A0 3/4" (A0		2,500				
1" (A10)		565				
1-1/2" (/		215				
2" (A20)		100				
Wetted Materials: Housing		Aluminum				
Bearing		Ceramic				
Shaft:		Tungsten Car	bide			
Rotor:		PVDF				
Rings:		316 Stainless				
Frequency Range: 1/2" (A0		42 - 420 Hz @				
3/4" (A0		37 - 370 Hz @				
1" (A10)	/	47 - 470 Hz @				
1-1/2" (/ 2" (A20)		36 - 360 Hz @ 33 - 330 Hz @				
Recommended Strainer Siz		00 000112 (5 LU - Z			
Recommended Strainer Siz 1/2" (Ad	-	55 mesh				
3/4" (A0		55 mesh				
1" (A10)		55 mesh				
1-1/2" (/		28 mesh				
2" (A20)		28 mesh				
Maximum Flow: 1/2" (A0		15 GPM (56	- /			
3/4" (A0)7)	30 GPM (11)		
1" (A10)		75 GPM (284				
1-1/2" (/ 2" (^20)		150 GPM (5				
2" (A20)		300 GPM (1,			_	
Wrench Flat Size: 1/2" (A0 3/4" (A0		1-1/16 inch	· ·			
3/4" (A0 1" (A10)		1-5/16 inch (4				
1-1/2" (/		2-3/8 inch (6	,			
2" (A20)		3 inch (75 m	,			
Shipping Weight: 1/2" (AC		1.3 lbs./.59 k		ine Only: 1	.1 lbs./.5	0 k
3/4" (A0		1.4 lbs./.63 k				
1" (A10))	1.6 lbs./.73 k	g - Turb	ine Only: 1	.4 lbs./.6	3 k
1-1/2" (/		2.8 lbs./1.3 k				
2" (A20)		3.9 lbs./1.7 k	-	ine Only: 3	./ lbs./1.	.7 k
ELEC	CTRC	DNIC CHO	ICES			
Local Display, Remote Disp	olay					
& Remote Transmitter Optic	ons:	See Section 6	б.			
	API	PROVALS				
	6	(C) NE	EMA	ATEX	IP4	Л
APPROVED CUL	C		4	AIEA	164	4
		BUY SMAR	_			-

G2 Industrial Meters - Brass



The G2 Industrial Brass Meter allows another choice for fluid compatibility. The GPI Brass Meter works well with most water applications. Use with glucose, lacquer thinners and vegetable juices for example.

Select Your Meter Size:

1/2 inch 3/4 inch 1 inch 1-1/2 inch 2 inch



Features and Benefits:

High precision and durable turbine flowmeters.

- Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.
- Internal parts are simple to replace for easy maintenance.
- Powered by Lithium batteries for approximately 9,000 hours.

	BRASS - SI	PECIFICATIONS
Fitting Type:		NPT or ISO (Female)
Housing Material:		Brass
Meter Sizes Availa	able:	1/2" 3/4" 1" 1-1/2" 2"
Flow Range:	1/2" (B05)	1 - 10 GPM (3.8 - 37.9 LPM)
	3/4" (B07)	2 - 20 GPM (7.6 - 75.7 LPM)
	1" (B10)	5 - 50 GPM (18.9 - 190 LPM)
	1-1/2" (B15)	10 - 100 GPM (38.0 - 380 LPM)
	2" (B20)	20 - 200 GPM (76 - 760 LPM)
Accuracy (% of Re		Turbine Only Turbine w/Computer
	1/2" (B05) 3/4" (B07)	$\pm 2.0\% \pm 1.5\%$ $\pm 1.5\% \pm 1.0\%$
	1" (B10)	$\pm 1.5\%$ $\pm 1.0\%$ $\pm 1.5\%$ $\pm 1.0\%$
	1-1/2" (B15)	$\pm 1.0\%$ $\pm 0.75\%$
	2" (B20)	$\pm 1.0\%$ $\pm 0.75\%$
Repeatability:		± 0.1%
Pressure Rating:		300 PSI / 21 BAR
Operating Tempera	ature Ranne:	-40°F to +250°F (-40°C to +121°C)
	th Computer:	+14°F to +140°F (-10°C to +60°C)
Typical K-Factor:	1/2" (B05)	2.500
., prost it ruoton	3/4" (B07)	1,100
	1" (B10)	565
	1-1/2" (B15)	215
	2" (B20)	100
Wetted Materials:		Brass
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide PVDF
	Rotor: Rings:	316 Stainless Steel
	-	42 - 420 Hz @ 1 - 10 GPM
Frequency Range:	3/4" (B05)	37 - 370 Hz @ 2 - 20 GPM
	1" (B10)	47 - 470 Hz @ 5 - 50 GPM
	1-1/2" (B15)	36 - 360 Hz @ 10 - 100 GPM
	2" (B20)	33 - 330 Hz @ 20 - 200 GPM
Recommended Str	rainer Size:	
	1/2" (B05)	55 mesh
	3/4" (B07)	55 mesh
	1" (B10) 1-1/2" (B15)	55 mesh 28 mesh
	2" (B20)	28 mesh
Maximum Flow:	1/2" (B05)	15 GPM (56.8 LPM)
maximum riom	3/4" (B07)	30 GPM (113.6 LPM)
	1" (B10)	75 GPM (284 LPM)
	1-1/2" (B15)	150 GPM (568 LPM)
	2" (B20)	300 GPM (1,136 LPM)
Wrench Flat Size:	1/2" (B05)	1-1/16 inch (27 mm)
	3/4" (B07)	1-5/16 inch (33 mm)
	1" (B10) 1-1/2" (B15)	1-5/8 inch (41 mm) 2-3/8 inch (60 mm)
	2" (B20)	3 inch (75 mm)
Shipping Weight:	1/2" (B05)	2.4 lbs./1.0 kg - Turbine Only: 2.2 lbs./1.0 kg
	3/4" (B07)	2.6 lbs./1.1 kg - Turbine Only: 2.4 lbs./1.0 kg
	1" (B10)	3.1 lbs./1.4 kg - Turbine Only: 2.9 lbs./1.3 kg
	1-1/2" (B15)	3.1 lbs./1.4 kg - Turbine Only: 2.9 lbs./1.3 kg
	2" (B20)	10.0 lbs./4.5 kg - Turbine Only: 9.8 lbs./4.4 kg
		ONIC CHOICES
Local Display, Rer		
& Remote Transmitter Options: See Section 6.		
	AP	PROVALS
	CE	Ex NEMA ATEX IP44
		BUY SMART. BUY VALUE. BUY
		DOT SMAILT. DUT VALUL. DUT CAPA

G2 Industrial Meters - PVC



The G2 PVC Meter is an exceptional meter for use in **metal-free** applications. The G2 PVC Meter is an economical alternative to stainless steel meters when used for water. The PVC Meter is durable, lightweight and easy-to-install in-line. Use this meter with water, beer and mild chemicals such as alcohol.

Select Your Meter Size:

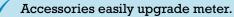
1/2 inch l inch



Features and Benefits:

- PVC meters are economical, durable and lightweight.
- Available with Local Display or Remote Transmitter.

Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.



One field replaceable internal part makes maintenance easy.

	PVC - SP	ECIFICATI	ONS
Fitting Type:		NPT or Solven	t Weld (Female)
Housing Material:		PVC	
Meter Sizes Availa	ıble:	1/2" and 1"	
Flow Range:	1/2" (C05)	1.2 - 12 GPM	(4.54 - 45.42 LPM)
	1" (C10)	5 - 50 GPM	(18.9 - 190 LPM)
Accuracy (% of Re	ading):	Turbine Only	Turbine w/Computer
	1/2" (C05)	± 2.0%	± 1.5%
	1" (C10)	± 1.5%	± 1.0%
Repeatability:		± 0.3%	
Pressure Rating:		150 PSI / 10.2	BAR
Operating Tempera			°F (0°C to +60°C)
wit	h Computer:	+14°F to +140	°F (-10°C to +60°C)
Maximum Storage Temperature: -40°F to +158°		°F (-40°C to +70°C)	
Typical K-Factor:	1/2" (C05)	2,400	
	1" (C10)	540	
Wetted Materials:	Housing:	PVC	
	Bearings:	Ceramic	
	Shaft:	Ceramic	
	Rotor:	PVDF	
	Rings:	Fluorocarbon	
Frequency Range:		48 - 480 Hz @	
	1" (C10)	45 - 450 Hz @	5 - 50 GPM
Recommended Str			
	1/2" (C05)	55 mesh	
	1" (C10)	28 mesh	
Maximum Flow:	1/2" (C05)	15 GPM (56.8	
	1" (C10)	75 GPM (284	,
Shipping Weight:	1/2" (C05)		- Turbine Only: 1.1 lbs./.51 kg
	1" (C10)	•	- Turbine Only: 1.7 lbs./.77 kg
		ONIC CHOI	CES
Local Display, Rer			
& Remote Transmi	& Remote Transmitter Options:		
	AP	PROVALS	
		CE	
		~ ~	

BUY SMART. BUY VALUE. BUY

G2 Industrial Meters - PVDF



Looking for a turbine meter that can handle aggressive chemicals? Look at the PVDF Meter for a housing material that resists abrasion and has great chemical compatibility.

Use PVDF Meters with harsh chemicals: Bleach, Ferric Chloride, Phenol, Sulfuric Acid or Phosphoric Acid.

Select Your Meter Size:

l inch

1/2 inch



Features and Benefits:

- Precision accuracy in a lightweight and durable meter.
- Installs easily.
- Available with Local Display or Remote Transmitter.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.

Accessories easily upgrade meter.

One field replaceable internal part making maintenance easy.

	PVDF - SE	PECIFICATI	ONS	
Fitting Type:	Fitting Type: NPT or ISO (Female)			
Housing Material:		PVDF		
Meter Sizes Availa	ble:	1/2" and 1"		
Flow Range:	1/2" (P05)	1.2 - 12 GPM	(4.54 - 45.42 LPM)	
	1" (P10)	5 - 50 GPM	(18.9 - 190 LPM)	
Accuracy (% of Re	ading):	Turbine Only	Turbine w/Computer	
	1/2" (P05)	± 2.0%	± 1.5%	
	1" (P10)	± 1.5%	± 1.0%	
Repeatability:		± 0.3%		
Pressure Rating:		150 PSI / 10.2	BAR	
Operating Tempera			F (-28°C to +82°C)	
wit	h Computer:	+14°F to +140°	'F (-10°C to +60°C)	
Maximum Storage	Temperature:	-40°F to +250°F (-40°C to +121°C)		
Typical K-Factor:	1/2" (P05)	2,400		
	1" (P10)	540		
Wetted Materials:	Housing:	PVDF		
	Bearings:	Ceramic - 98%		
	Shaft:	Ceramic - 98%	Alumina	
	Rotor:	PVDF		
	Rings:	Fluorocarbon		
Optional O-Ring:		PTFE		
Frequency Range:		48 - 480 Hz @		
	1" (P10)	45 - 450 Hz @	5 - 50 GPM	
Recommended Str				
	1/2" (P05)	55 mesh		
	1" (P10)	28 mesh		
Maximum Flow:	1/2" (P05)	15 GPM (56.8	/	
	1" (P10)	75 GPM (284	/	
Shipping Weight:	1/2" (P05)		- Turbine Only: 1.1 lbs./.54 kg	
	1" (P10)	-	- Turbine Only: 1.7 lbs./.77 kg	
		ONIC CHOI	CES	
Local Display, Ren				
& Remote Transmi	tter Options:	See Section 6.		

APPROVALS

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FM

NEMA

ATEX IP44



BUY SMART. BUY VALUE. BUY

Standard Remote Kit Assembly (Part No. 113265-1)



Features and Benefits:

Accommodates fluid temperatures from -40° F to $+250^{\circ}$ F (-40° C to $+121^{\circ}$ C) depending on meter.

This kit can upgrade an existing GPI meter or can be purchased with a new meter.

Battery powered from meter; no additional power required.

FM Approved Remote Kit Assembly (Part No. 113275-1)



Features and Benefits:

Maintains FM Approval.

- Accommodates fluid temperatures from -40°F to +250°F (-40°C to +121°C) depending on meter.
- Battery powered from meter; no additional power required.
- This kit can upgrade an existing GPI meter or can be purchased with a new meter.

The Standard Remote Kit Assembly modifies GPI Electronic Digital Meters for applications in specialized situations including remote indication and high or low fluid temperature metering applications. This kit also provides the versatility of panel mounting of the LCD readout up to 300 ft. from the turbine housing and sensor.

This kit consists of a sensor module, a dustcover assembly and 10 ft. of cable. Requires a complete meter with display.

SPECIFICATIONS				
Magnetic Pickup:	1.5 k Ohm, 700 mH			
Signal Type:	Sine Wave			
Voltage:	Peak to Peak 33 mV to 825 mV			
Frequency:	11 to 750 Hz			
Cable:	10 ft. (3 m), 2-conductor shielded, Belden #1266A or #8451			

The Factory Mutual (FM) Approved Remote Kit Assembly modifies GPI Electronic Digital Meters for applications in specialized situations including remote indication and high or low fluid temperature metering applications. This kit provides the versatility of panel mounting of the LCD readout up to 100 ft. from the turbine.

This kit consists of a sensor module, a dustcover assembly and 10 ft. of cable. Requires a complete meter with display.

SPECIFICATIONS			
Magnetic Pickup:	1.3 k Ohm, 90 mH		
Signal Type:	Sine Wave		
Voltage:	Peak to Peak 10 mV to 500 mV		
Frequency:	11 to 750 Hz		
Cable:	10 ft. (3 m), 2-conductor shielded, Belden #9501		
APPROVALS			
FM			
BUY SMART. BUY VALUE. BUY 🖅 💴			

Conditioned Signal Output Module (Part No. 113435-1)



Features and Benefits:

- Provides two digital signals: Open Collector or 6-volt Square Wave and can communicate with most process control devices.
- Operating temperature range of -40°F to +212°F (-40°C to +100°C).
 - Can be externally powered or battery powered.

FM Approved Sensor Kit (Part No. 120077-01)



Features and Benefits:

Mounts to any G2 meter housing via the coverplate.

Ideal for indoor or outdoor applications.

Factory Mutual (Intrinsic Safe) Class 1, Div. 1, Groups ABCDEFG. This module provides an unscaled, amplified, digital signal capable of transmission up to 5,000 ft. There is no need for additional signal conditioning or amplification devices to achieve the desired digital signal. Use with G2 Turbine only.

The module is factory assembled for Open Collector signal output and operates from an external 9 to 35 volt power source. By changing terminal connections and adding a battery kit, the module provides a selfpowered 6-volt Square Wave signal.

SPECIFICATIONS			
Connector:	Hubble PG7		
Signal Type:	Open Collector (NPN)		
Power:	External 9 to 35 VDC, approximately 1 mA		
Connection:	Three wire		
Frequency:	0 to 750 Hz		
Cable:	10 ft. (3 m) Belden #9363		

The Factory Mutual (FM) Approved Sensor is designed for use with any G2 Turbine Meter when rotor pulse data is required and the meter is located within a hazardous location. The output signal is compatible with existing GPI remote electronics. Use with G2 Turbine only.

This kit includes pickup, screws, coverplate and jam nut. Connection Kit sold separately.

	SPECIFICATIONS
Signal Type:	Open Collector (NPN)
Power Source:	8 to 30 VDC
Supply Current:	≤ 15 mA
Frequency:	5 to 10k Hz
Cable:	None provided - 3 conductor required for use
Temperature:	Sensor is capable of operating in the range of -40°F to +248°F (-40°C to +120°C). For Class I, II, III, Division 1: Group ABCDEFG and CSA: Class 1, Div. 1 Group ABCD, the following temperature codes apply: T6 +185°F (+85°C) at +149°F (+65°C) Ambient Temperature T5 +212°F (+100°C) at +186°F (+85°C) Ambient Temperature

BUY SMART. BUY VALUE. BUY

4-20 mA Module (Part No. 125100-1)



Features and Benefits:

- Communicates with most analog process control devices.
- Operating temperature range of +14°F to +140°F (-10°C to +60°C).
- ✓ Module installs on all turbine sizes.
- Provides external power to computer electronics.

Pulse Access Module (Part No. 125060-1)



Combine the 4-20 mA Module with an Industrial Grade Turbine and Computer Electronics to provide an industry standard analog signal for connection to a wide variety of chart recorders, display equipment and process control equipment. This module outputs an analog signal which

This module outputs an analog signal which is directly proportional to the frequency of the digital output. With some simple adjustments, you can scale the module to represent whatever range is desired. Kit comes with circuit, assembly, enclosure and screws.

SPECIFICATIONS			
Signal Type:	Analog		
Power:	Loop Powered		
Voltage:	7 to 30 VDC		
Strain Relief:	Hubble PG7		
Cable:	10 ft. (3 m), Belden #9363		

The Pulse Access Module provides an unscaled, digital signal from your GPI meter by accessing circuitry from the on-board computer readout.

This kit comes complete, ready to install, with a circuit assembly, coverplate assembly and 10 ft. of cable.

The Pulse Access Module requires both a GPI Turbine and an 09 Computer Electronics which are sold separately.

Features and Benefits:

Provides a digital Open Collector signal.

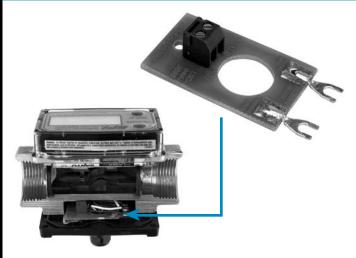
Operating temperature range of $+14^{\circ}$ F to $+140^{\circ}$ F (-10° C to $+60^{\circ}$ C).

Can transmit signal up to 5,000 ft.

Communicates with most digital process control devices and its easy to install.

SPECIFICATIONS				
Signal Type:	Open Collector (NPN)			
Voltage:	0 to 60 VDC			
Frequency:	0 to 750 Hz			
Strain Relief:	Hubble PG7			
Cable:	10 ft. (3 m) Belden #9363			
APPROVALS				
CE				
BUY SMART. BUY VALUE. BUY CT/2/				

External Power Module (Part No. 125070-1)



Combine the External Power Module and the GPI Pulse Access Module to provide external power capabilities to a GPI Electronic Digital Meter.

The module is designed to provide regulated power to the Computer Electronics. The batteries then become a backup or auxiliary power source.

If desired, a pulse output may be accessed. The unscaled, digital signal is capable of transmission up to 5,000 ft.

Features and Benefits:

- Internal batteries become a backup or auxiliary power source.
- Operating temperature range of +14°F to +140°F (-10°C to +60°C).
- Input power is 7 to 30 volt external power.

140°F	SPECIFICATIONS			
	Voltage:	7 to 30 VDC @ 1 mA		
	APPROVALS			
		CE		



G2 Meter Accessories

Conduit Adapter Kit (Part No. 113437-01)



The Conduit Adapter allows you to enclose wiring from the magnetic pickup. The kit includes a turbine meter cover with a 1 inch male NPT conduit fitting and screws for plastic or metal installation.

90° Display Adapter Kit (Part No. 125260-01)





90° Display Adapter Kit allows for horizontal readout of vertical meters. Includes adapter, O-ring, screws and foam spacers required for installation.

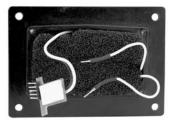
Can be ordered with a meter. Specify -19 option with meter order.

510 Conversion Kit (Part No. 11344001)



This new kit combines the Conduit Adapter with a magnetic pickup to allow easy installation of the 510 Series Displays or Transmitters to a G2 Meter.

Pulse Access Dust Cover (Part No. 125080-1)





Used with the Remote Kit, this part replaces the dust cover that houses the electronic display. This module provides a digital, open collector (NPN) output signal. Use this combination to communicate to a PLC or other piece of electronic equipment.

GPI Electronics Programmer (Part No. 113800-06)



The GPI Electronics Programmer is a system composed of a small USB interface unit, a USB cable, and a software program. This kit is perfect for reconfiguring multiple GPI Electronics for the first time or when changing the configuration over the life of the meter.

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