# **Industrial Meter Catalog**



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**VERSION 6 | 2008** 

R

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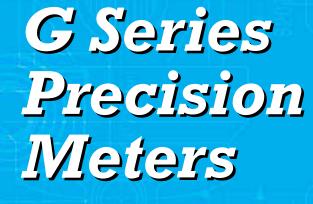
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The High Precision Meter line is the most accurate of the GPI Turbine Meters and includes a traditional design. These meters come in a variety of sizes and fitting options including BSP, ISO, NPT and ANSI Flange fittings. The GSCPS in this section carries the 3A Sanitary Rating.

101

28-03

# Build-Your-Own G Series Meter 1) Select Your Turbine



**Threaded Models** 



Sanitary Clamp Models



**Flange Models** 



2) Select Your Sensor





**Local Pickup** Wire Lead



# 3) Select Your Electronic Choice

For further details and selections see Section 6.

R700-R
R800-R
SC500

Local Models		
GA510	R700-L	
GG510	R800-L	
GX510	SC510	

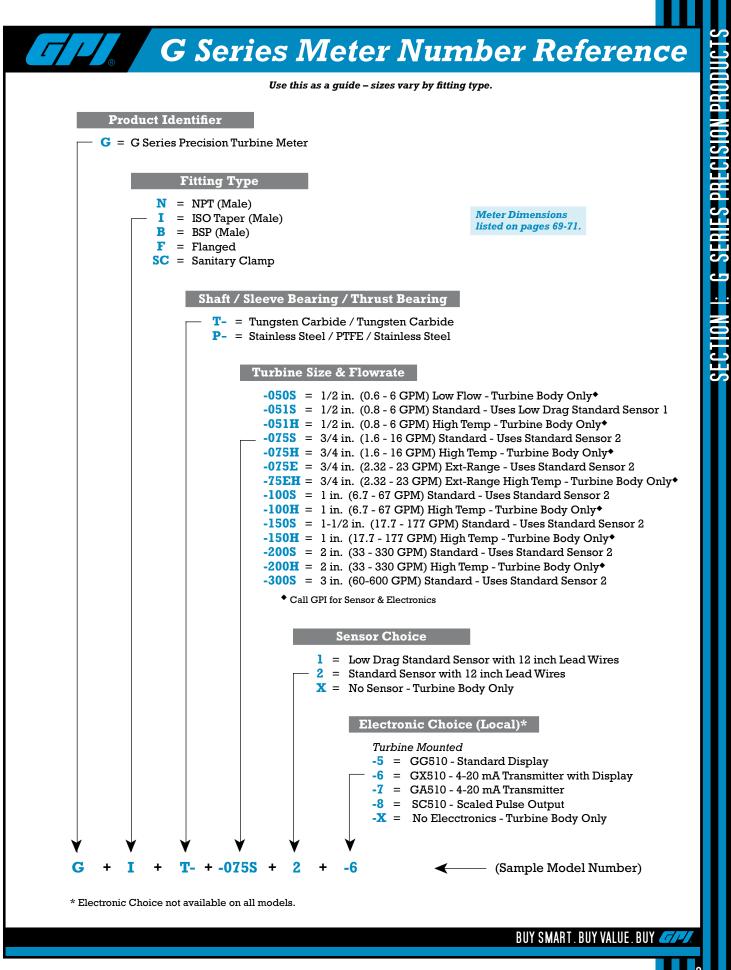
Local Models



4) Do You Want It Assembled?

GPI will assemble the components you choose into a single unit, configured to your request.

Contact the factory for details on Custom System Assembly.



<b>Precision Me</b>	ters - GBT	, GIT & GNT
	SPECI	FICATIONS
Model GNT	Design Type:	Turbine
	Housing Material:	316 Stainless Steel
NPT Fitting	Meter Sizes Available:	
	For GNT: NPT Taper (Male) For GBT: BSP (Male)	1/2" 3/4" 1" 1-1/2" 2" 3" 1/2" 3/4" 1" 1-1/2" 2" 3"
	For GIT: ISO Taper (Male) For High Temperature*:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Flow Range: 1/2" (051)	0.8 - 6.0 GPM (3.0 - 22 LPM)
The second second	3/4" (075)	1.6 - 16 GPM (6.0 - 60 LPM)
	3/4" (075E) 1" (100)	2.3 - 23 GPM (8.7 - 87 LPM) 6.7 - 67 GPM (25.2 - 252 LPM)
MADE IN U.S.A.	1-1/2" (150)	17.7 - 177 GPM (67.0 - 670 LPM)
A TTERTER AND A TOTAL AND A TO	2" (200)	33 - 330 GPM (125.0 - 1250 LPM)
	3" (300)	60 - 600 GPM (227.1 - 2271 LPM)
	Accuracy (Linearity):	± 0.5%
	Repeatability:	± 0.1%
225	Pressure Rating:	1/2" to 2" = 5,000 PSI / 340 BAR 3" = 2,500 PSI / 170 BAR
	Operating Temperature Range:	
O marine O	For Tungsten Carbide: For High Temperature *:	-100°F to +225°F (-74°C to +107°C) -450°F to +800°F (-268°C to +426°C)
GNT shown here	Typical K-Factor: 1/2" (051)	10.000
with Local Display	3/4" (075)	3,750
	3/4" (075E)	2,608
Commence and the second s	1" (100) 1-1/2" (150)	896 340
	2" (200)	181
	3" (300)	50
ACCURACY: ± 0.5%	Wetted Materials:	
	Housing: Sleeve Bearings:	316 Stainless Steel Tungsten Carbide
Select Your Meter Size:	Thrust Bearing:	Tungsten Carbide
1/2 inch 1 inch 2 inch	Shaft:	Tungsten Carbide
3/4 inch $1-1/2$ inch $3$ inch	Rotor:	CD4MCu Stainless Steel 316 Stainless Steel
	Rotor Supports:	STO Statilless Steel
1. J.	Recommended Strainer Size: 1/2"	40 mesh
Y	3/4"	40 mesh
	1"	40 mesh
For Your Special Application Needs:	<u>1-1/2"</u> 2"	18 mesh 14 mesh
Model GNT HT	3"	14 mesh
For High Temperatures	Frequency Output: 1/2" (051)	125 - 1000 Hz
(This model is not available in 3 inch)	3/4" (075) 2/4" (0755)	100 - 1000 Hz
	3/4" (075E) 1" (100)	100 - 1000 Hz 100 - 1000 Hz
1. I.	1-1/2" (150)	100 - 1000 Hz
	2" (200)	100 - 1000 Hz 50 - 500 Hz
	3" (300) * Requires High Temp Pickup.	50 ° 500 HZ
Sensor Options:Electronics Options:Low Drag PickupGG510 (Display with	пецинез підн тенір Ріскир.	
(1/2 in. turbines) Pulse Output)		
<ul> <li>Standard Pickup (3/4 to 3 in. turbines)</li> <li>GX510 (Display with 4-20 mA Output)</li> </ul>		
GA510 (4-20 mA Output)		
<ul> <li>SC510 (Scaled Pulse Output)</li> </ul>		
		BUY SMART. BUY VALUE. BUY

<b>Precision Me</b>		
		FICATIONS
Model GNP	Design Type:	Turbine
NPT Fitting	Housing Material:	316 Stainless Steel
INF I I millig	Meter Sizes Available: For GNP: NPT (Male) For GBP: BSP (Male) For GIP: ISO Taper (Male)	1/2"         3/4"         1"         1-1/2"         2"           1/2"         3/4"         1"         1-1/2"         2"           1/2"         3/4"         1"         1-1/2"         2"
MADE IN U.S.A.	Flow Range: 1/2" (050)* 1/2" (051) 3/4" (075) 3/4" (075E) 1" (100) 1-1/2" (150) 2" (200)	0.6         6.0 GPM         (2.2 - 22 LPM)           0.8         - 6.0 GPM         (3.0 - 22 LPM)           1.6         - 16 GPM         (6.0 - 60 LPM)           2.3         - 23 GPM         (8.7 - 87 LPM)           6.7         - 67 GPM         (25.2 - 252 LPM)           17.7         - 177 GPM         (67.0 - 670 LPM)           33         - 330 GPM         (125.0 - 1250 LPM)
Jecon	Accuracy (Linearity):	± 0.5%
	Repeatability:	± 0.1%
	Pressure Rating:	1/2" to 2" = 5,000 PSI / 340 BAR
(a) an (a)	Operating Temperature Range:	-100°F to +185°F (-74°C to +85°C)
225 mil	Typical K-Factor: 1/2" (050)* 1/2" (051)	10,000 10,000
G CATTON	3/4" (075)	3,750
GNP shown here	3/4" (075E)	2,608
with Local Display	1" (100) 1-1/2" (150)	896 340
	2" (200)	181
Company and the second	Wetted Materials:	
	Housing: Sleeve Bearings:	316 Stainless Steel PTFE
	Thrust Bearing:	440C Stainless Steel
ACCURACY: ±0.5%	Shaft:	316 Stainless Steel
ect Your Meter Size:	Rotor: Rotor Supports:	CD4MCu Stainless Steel 316 Stainless Steel
	Recommended Strainer Size:	
nch l inch 2 inch	1/2"	40 mesh
nch 1-1/2 inch	3/4"	40 mesh
	1" 1-1/2"	40 mesh 18 mesh
10 March 10 Mar	2"	14 mesh
	Frequency Output: 1/2" (051)*	125 - 1000 Hz
	3/4" (075)	100 - 1000 Hz
Floatronics Ontions	3/4" (075E) 1" (100)	100 - 1000 Hz 100 - 1000 Hz
<ul><li>Electronics Options:</li><li>GG510 (Display with</li></ul>	1-1/2" (150)	100 - 1000 Hz
p GG510 (Display with s) Pulse Output)	2" (200)	100 - 1000 Hz
<ul> <li>GX510 (Display with 4-20 mA Output)</li> <li>GA510 (4-20 mA Output)</li> <li>SC510 (Scaled Pulse Output)</li> </ul>	* 1/2 in. (050) requires RF Pickup	

5

	M	ODEL GFT	- SPECIFICATIONS
Model GFT	Design Type:		Turbine
150# RF ANSI Flange Fitting	Housing Material:		316 Stainless Steel
	Meter Sizes Availa	able:	
	For GFT:		3/4" 1" 1-1/2" 2"
	For GFP:	oraturo.	3/4" 1" 1-1/2" 2" 3/4" 1" 1-1/2" 2"
	For High Temp		
	Flow Range:	3/4" (075) 3/4" (075E) 1" (100) 1-1/2" (150) 2" (200) 2" (200)	1.6 - 16 GPM         (6.0 - 60 LPM)           2.3 - 23 GPM         (8.7 - 87 LPM)           6.7 - 67 GPM         (25.2 - 252 LPM)           17.7 - 177 GPM         (67.0 - 670 LPM)           33 - 330 GPM         (125.0 - 1250 LPM)           60 - 200 CPM         (202 1 - 202 HPM)
		3" (300)	60 - 600 GPM (227.1 - 2271 LPM
	Accuracy (Linearit	ty):	± 0.5%
	Repeatability:		± 0.1%
	Pressure Rating:		Flange Rule
Co arri CA	Operating Temper		
225	For Tungsten ( For SS/PTFE:	Jarbide:	-100°F to +225°F (-74°C to +107°C) -100°F to +185°F (-74°C to +85°C)
	For High Temp	erature* :	-450°F to +800°F (-268°C to +426°C
O TENTER O	Typical K-Factor:		3,750
GFT shown here		3/4" (075E)	2,608
with Local Display		1" (100)	896
		1-1/2" (150) 2" (200)	340 181
Carlos and a second		3" (300)	50
	Wetted Materials		
	Housing:		316 Stainless Steel
ACCURACY: ± 0.5%	Sleeve Bearin	•	Tungsten Carbide
	Thrust Bearing Shaft:	J:	Tungsten Carbide Tungsten Carbide
Select Your Meter Size:	Rotor:		CD4MCu Stainless Steel
3/4 inch 1-1/2 inch 3 inch	Rotor Supports	s:	316 Stainless Steel
l inch 2 inch	Wetted Materials	(GFP):	
	Housing:	ao.	316 Stainless Steel PTFE
	Sleeve Bearin Thrust Bearing	-	440C Stainless Steel
202	Shaft:		316 Stainless Steel
	Rotor:		CD4MCu Stainless Steel
Vour Special Application Meedle	Rotor Support		316 Stainless Steel
Your Special Application Needs:	Recommended St	rainer Size: 3/4"	40 mesh
odel GFP Model GFT HT		1"	40 mesh
r Chemicals For High Temperatures		1-1/2"	18 mesh
(These models not available in 3 inch)		2"	14 mesh
	Frank A. A. A.	3"	14 mesh
10 A	Frequency Output:	: 3/4" (075) 3/4" (075E)	100 - 1000 Hz 100 - 1000 Hz
		1" (100)	100 - 1000 Hz
		1-1/2" (150)	100 - 1000 Hz
or: Electronics Options:		2" (200)	100 - 1000 Hz
undard PickupGG510 (Display with Pulse Output)'4 to 3 inchPulse Output)'bines)GX510 (Display with	* Requires High Te	<b>3" (300)</b> emp Pickup.	50 - 500 Hz
<ul> <li>4-20 mA Output)</li> <li>GA510 (4-20 mA Output)</li> <li>SC510 (Scaled Pulse Output)</li> </ul>			
			BUY SMART. BUY VALUE. BUY

# **Precision Meters - Sanitary Clamp**



Model GSCPS Standard Sanitary Clamp



Model GSCPS Low Profile Sanitary Clamp

### ACCURACY: ± 0.5%

GSCPS Stainless Steel Precision Turbine Meter



Select Your Meter Size:

1 inch Meter with 1-1/2 inch Fitting1-1/2 inch Meter with 1-1/2 inch Fitting2 inch Meter with 2 inch Fitting

MODEL GSCP	S – SPECIFICATIONS		
Design Type:			
Housing Material:	316 Stainless Steel		
Meter Sizes Available (ID):	1" 1-1/2" 2"		
Meter ID: 1"	1-1/2" Fitting		
1-1/2"	1-1/2" Fitting		
2"	2" Fitting		
Flow Range: 1" (100)	6.7 - 67 GPM (25.2 - 252 LPM)		
1-1/2" (150)	17.7 - 177 GPM (67.0 - 670 LPM)		
2" (200)	33 - 330 GPM (125.0 - 1250 LPM)		
Accuracy (Linearity):	± 0.5%		
Repeatability:	± 0.1%		
Pressure Rating:	Limited by fitting size, clamp size & temp.		
Operating Temperature Range:			
For GSCPS:	-100°F to +225°F (-74°C to +107°C)		
SIP (up to 1 hour):	+285°F (+140°C)		
Typical K-Factor: 1" (100)	896		
1-1/2" (150)	340		
2" (200)	181		
Wetted Materials (SIP):			
Housing:	316 Stainless Steel		
Sleeve Bearings:	PEEK		
Thrust Bearing:	PEEK		
Shaft:	316 Stainless Steel		
Rotor:	CD4MCu Stainless Steel		
Rotor Supports:	316 Stainless Steel		
<b>Recommended Strainer Size:</b>			
1"	40 mesh		
1-1/2"	18 mesh		
2"	14 mesh		
Frequency Output: 1" (100)	100 - 1000 Hz		
1-1/2" (150)	100 - 1000 Hz		
2" (200)	100 - 1000 Hz		
* *	DDOULLC		

APPROVALS

GSCPS & "L" Option Meters carry a



Flowmeters for milk and milk products, Number 28-03.



This meter meets the strict 3-A Sanitary Standards using the new "Third Party Verification" (TPV) program. Our methods of design, construction and traceability of components have been reviewed and approved.

The internals of this meter are machined or polished to meet 3-A self-draining and cleaning requirements (Ra 32). The GSCPS Meter meets Clean in Place (CIP), Steam in Place (SIP) and Clean Out of Place (COP) requirements.

# **Precision Meters - Sanitary Clamp**

Use this meter in pre-process applications where high accuracy is required without 3-A Approval.

**Model GSCP** Tri-Clover<sup>®</sup> Clamp





GSCP shown here with Local Display

# ACCURACY: ±0.5%

# Select Your Meter Size:

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



### Sensor Options:

- Low Drag Pickup (1/2 in. turbines)
- Standard Pickup (3/4 to 2 in. turbines)

Electronics Options: GG510 (Display with

- Pulse Output)
   GX510 (Display with
- 4-20 mA Output)
- GA510 (4-20 mA Output)
- SC510 (Scaled Pulse Output)

I	NODEL GSCP	- SPECIFIC	ATIONS	
Design Type:		Turbine		
Housing Mater	ial:	316 Stainless Ste	el	
Meter Sizes Av	ailahle (ID):	1/2" 3/4"	1" 1-1/	2" 2"
	/2"	3/4" Fitting		
	/2"	1" Fitting		
	/ <b>/</b>	1-1/2" Fitting		
	"	1-1/2" Fitting		
	-1/2"	1-1/2" Fitting		
		2" Fitting		
Flow Range: 1	/2" (050)†	0.6 - 6 GPM	(2.2 - 22 LP	M)
-	/2" (051)	0.8 - 6 GPM	(3.0 - 22 LP	,
	6/4" (075)	1.6 - 16 GPM	(6.0 - 60 LP	/
	6/4" (075E)	2.3 - 23 GPM	(8.7 - 87 LP	
	" (100)	6.7 - 67 GPM	(25.2 - 252	
1	-1/2" (150)	17.7 - 177 GPM	(67.0 - 670	LPM)
	2" (200)	33 - 330 GPM	(125.0 - 125	50 LPM)
Accuracy (Line	arity):	± 0.5%		
Repeatability:		± 0.1%		
Pressure Ratin	g:	Limited by fitting	size, clamp s	ize & temp.
Operating Tem	perature Range:	-100°F to +185°F	(-74°C to +8	35°C)
Typical K-Facto	or: 1/2" (050) <sup>†</sup>	10,000		
	1/2" (051)	10,000		
	3/4" (075)	3,750		
	3/4" (075E)	2,608		
	1" (100)	896		
	1-1/2" (150)	340		
	2" (200)	181		
Wetted Materia	lls:			
Housing:		316 Stainless Ste	el	
Sleeve Bea	-	PTFE		
Thrust Bear Shaft:	ing:	440C Stainless St 316 Stainless Ste		
Rotor:		CD4MCu Stainles		
Rotor Supp	orte:	316 Stainless Ste		
Recommended				
necommenueu	1/2"	40 mesh		
	3/4"	40 mesh		
	1"	40 mesh		
	1-1/2"	18 mesh		
	2"	14 mesh		
Frequency Outp	out: 1/2" (050)	100 - 1000 Hz		
	1/2" (051)	125 - 1000 Hz		
	3/4" (075)	100 - 1000 Hz		
	3/4" (075E)	100 - 1000 Hz		
	1" (100)	100 - 1000 Hz		
	1-1/2" (150)	100 - 1000 Hz		
	2" (200)	100 - 1000 Hz		
+ GSCP-050 re	nuires RF Pickup			

<sup>+</sup> GSCP-050 requires RF Pickup.

# SECTION I: G SERIES PRECISION PRODUCTS

# **G** Series Precision Accessories

# **Magnetic Pickups**



When choosing a magnetic pickup, the turbine meter and electronics are generally already known. Electronics can be either Local or Remote. Remote electronics include GPI Remote Displays or output to customer supplied equipment. Follow these 3 steps when choosing a magnetic pickup then see the Specification Table for further details.



Select your size: 1/2 inch or 3/4 to 3 inch



Choose: Local or Remote/Output Local uses a wire lead pickup. Remote/Output requires a connector.



What's your signal type: Sine Wave or Square Wave Sine Wave - has no sensor power, can be used with battery powered displays. Square Wave - sensor power is required.

Magnetic Pickups work with.

### 1/2 inch Meter Sizes

Description	Part Number	Sensor Power	Temperature Range	Cable Type	Connector Required	Cable Length	Thread Size	Local	Remote	Battery Pwr Display
Wire Lead Low Drag	81006001	None	-100°F - +250°F (-73°C - +121°C)	None	None	12 in.	5/8" - 18	Х		Yes
Low Drag	81006000	None	-450°F - +450°F (-268°C - +232°C)	S	80001200	N/A	5/8" - 18		Х	Yes
High Temp., Low Drag (10 ft. cable)	81007001	None	-450°F - +800°F (-268°C - +426°C)	None	None	10 ft.	5/8" - 18		Х	Yes
* RF (required for GNP-050, GTP-050 & GSCP-050)	81005002	7-30 VDC	-40°F - +248°F (-29°C - +120°C)	D	80001202	N/A	5/8" - 18		Х	No
3/4 to 3 inch Meter Sizes	3/4 to 3 inch Meter Sizes									
Wire Lead Standard	81003000	None	-100°F - +250°F (-73°C - +121°C)	None	None	12 in.	5/8" - 18	Х		Yes
Standard	81001000	None	-100°F - +250°F (-73°C - +121°C)	S	80001200	N/A	5/8" - 18		Х	Yes
Herm / High Temperature	81002000	None	-450°F - +258°F (-268°C - +125°C)	S	80001200	N/A	5/8" - 18		Х	Yes
High Temperature, Standard	81007000	None	-450°F - +800°F (-268°C - +426°C)	None	None	3 ft.	5/8" - 18		Х	Yes
* Digital (Di-Mag)	81004000	5-32 VDC	-40°F - +248°F (-29°C - +120°C)	D	80001202	N/A	5/8" - 18		Х	No
* Externally powered pickups for pulse output only.										

# **Pickup Enclosures**



Pickup Enclosures are optional on G Series Meters. Choose from four pickup enclosures. Models N4A and N4S are weatherproof enclosures. For explosion-proof enclosures, choose N7A for the enclosure without terminal strip or the N7AT with terminal strip.

	Description	Part Number
	N4AWP - Weatherproof magnetic	80001101
1	pickup steel enclosure	
	N4SWP - Weatherproof magnetic pickup 316 S.S. enclosure	80001105
	N7AXP - Explosion-proof pickup enclosure (NEMA 7D)	80001100
	N7ATXP - Explosion-proof pickup enclosure w/terminal strip (NEMA 7D)	80001102
	Optional Spacer	42825524

# **G** Series Precision Accessories

# Connectors





Connectors are included with cable assemblies from GPI. If you need replacement connectors, choose from the following:

Description	Part Number
Standard mating connector (2 pin) used on Type S and T cable assemblies	80001200
Water resistant connector (2 pin) used on Type H cable assembly	80001201
Di-Mag connector (3 pin) used on Type D cable assembly	80001202

# **Cable Assemblies**



GPI Cable Assemblies include the connector.

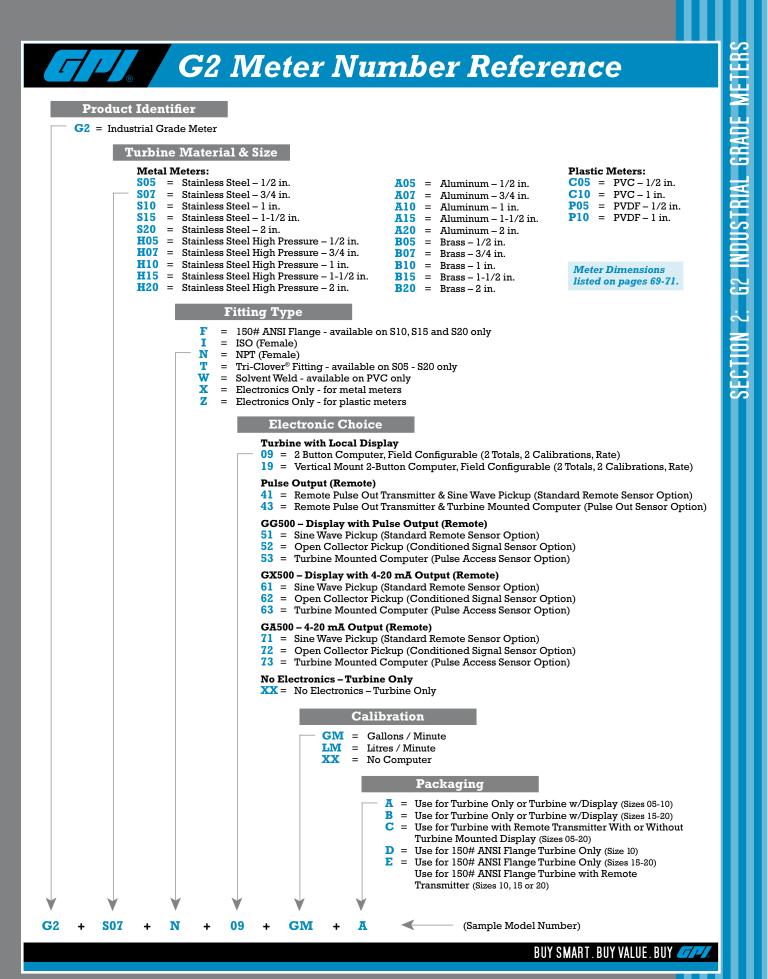
Type "S" Sta (2 Conc		Type "H" Water Resistant (2 Conductor)			
Cable Length	Part No.	Cable Length	Part No.		
8 inch	83001001	8 inch	83003001		
5 feet	83001005	5 feet	83003005		
10 feet	83001010	10 feet	83003010		
15 feet	83001015	15 feet	83003015		
20 feet	83001020	20 feet	83003020		
25 feet	83001025	25 feet	83003025		
30 feet	83001030	30 feet	83003030		
40 feet	83001040	40 feet	83003040		
50 feet	83001050	50 feet	83003050		
75 feet	83001075	75 feet	83003075		
100 feet	83001100				
125 feet	83001125				

Type "D" Di-Mag or RF (3 Conductor)		Type "T" High Temperature (2 Conductor)		
Cable Length	Part No.	Cable Length	Part No.	
8 inch	83002001	8 inch	83004001	
5 feet	83002005	5 feet	83004005	
10 feet	83002010	10 feet	83004010	
15 feet	83002015	15 feet	83004015	
20 feet	83002020	20 feet	83004020	
25 feet	83002025	25 feet	83004025	
30 feet	83002030	30 feet	83004030	
40 feet	83002040	40 feet	83004040	
50 feet	83002050	50 feet	83004050	
75 feet	83002075	75 feet	83004075	

# *G2 Industrial Grade Meters*

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.

# ELECTRONICS Build-Your-Own G2 Meter SECTION HAS ADDITIONAL ITEMS 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 Brass PVC PVDF (Shown with 09 Computer) (Shown with 09 Computer) (Shown with 09 Computer) **Or Choose an Electronics** (For further details and selections see page 56.) 09 Computer XX No Computer 3) Add a Module? . . . . . . . . . . . . . . For further details and selections see pages 22-25. **Standard Remote Kit** FM Approved Remote Kit **Conditioned Signal Output** FM Approved Sensor Kit Module 4-20 mA Module **Pulse Access Module External Power Module** (Pulse Access Module Required) 4) Do You Require Any Accessories? For further details and selections see page 26. **510 Conversion Kit Pulse Access Dust Cover GPI Electronics Programmer Conduit Adapter Kit** 90° Display Adapter Kit BUY SMART. BUY VALUE. BUY



ML-1800-6 06/0

# **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	<b>NLESS STE</b>	EL - SPECIF	ICATIONS			
Fitting Type:	Fitting Type: NPT or ISO (Female)					
Housing Material:		316 Stainless S	Steel			
Meter Sizes Availa	ble:	1/2" 3/4"	1" 1-1/2" 2"			
Flow Range:	1/2" (S05)	1 - 10 GPM	(3.8 - 37.9 LPM)			
now nange.	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	. ,			
	2" (S20)	20 - 200 GPM	· · · · · · · · · · · · · · · · · · ·			
Accuracy (% of Re		Turbine Only	Turbine w/Computer			
Accuracy ( /0 of file	1/2" (S05)	± 2.0%	± 1.5%			
	3/4" (S07)	± 1.5%	± 1.0%			
	1" (S10)	± 1.5%	± 1.0%			
	1-1/2" (\$15)	± 1.0%	± 0.75%			
	2" (S20)	± 1.0%	± 0.75%			
Repeatability:	( /	± 0.1%				
Pressure Rating:		1,500 PSI / 102				
-						
Operating Tempera			F (-40°C to +121°C)			
	h Computer:		°F (-10°C to +60°C)			
Typical K-Factor:	1/2" (S05)	2,500				
	3/4" (S07)	1,100				
	1" (S10)	565				
	1-1/2" (S15)	215				
	2" (S20)	100				
Wetted Materials:		316 Stainless S	Steel			
	Bearings:	Ceramic				
	Shaft:	Tungsten Carbi	de			
	Rotor:	PVDF				
	Rings:	316 Stainless Steel				
Frequency Range:	• •	42 - 420 Hz @ 1 - 10 GPM 37 - 370 Hz @ 2 - 20 GPM				
	3/4" (S07)					
	1" (S10)	47 - 470 Hz @				
	1-1/2" (S15) 2" (S20)	36 - 360 Hz @ 33 - 330 Hz @				
D 1 101	. ,	33 - 330 HZ @	20 - 200 GFIVI			
Recommended Str		EE maab				
	1/2" (S05) 3/4" (S07)	55 mesh 55 mesh				
	1" (S10)	55 mesh				
	1-1/2" (S15)	28 mesh				
	2" (S20)	28 mesh				
Maximum Flow:	1/2" (S05)					
Maximum Flow.	3/4" (S07)	15 GPM (56.8 LPM) 30 GPM (113.6 LPM)				
	1" (S10)	75 GPM (284				
	1-1/2" (S15)	150 GPM (568	/			
	2" (S20)	300 GPM (1,136 LPM)				
Wrench Flat Size:	1/2" (S05)	1-1/16 inch (27 mm)				
	3/4" (S07)	1-5/16 inch (33 mm)				
	1" (S10)	1-5/8 inch (41 mm)				
	1-1/2" (\$15)					
	2" (S20)	3 inch (75 mm	)			
Shipping Weight:	1/2" (\$05)	2.3 lbs./1.1 kg	- Turbine Only: 2.1 lbs./.95 kg			
····pp····g·····g····	3/4" (S07)		- Turbine Only: 2.3 lbs./1.0 kg			
	1" (S10)	3.0 lbs./1.3 kg	- Turbine Only: 2.8 lbs./1.2 kg			
	1-1/2" (S15)	4.6 lbs./2.0 kg	- Turbine Only: 4.4 lbs./2.0 kg			
	2" (S20)		- Turbine Only: 6.6 lbs./3.0 kg			
	ELECTRO	ONIC CHOI	CES			
Local Display, Ren	note Displav					
& Remote Transmi		See Section 6.				
	AP	PROVALS				
		C NEM				
	) (E	(Ex) 4	ATEX IP44			
		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.

	GH PRESSUF					
Fitting Type:		NPT or ISO (Female)				
Housing Material: 316 Stainless Steel						
Meter Sizes Availa		1/2" 3/4" 1" 1-1/2" 2"				
-	1/2" (H05)	1 - 10 GPM (3.8 - 37.9 LPM)				
	3/4" (H07)	2 - 20 GPM (7.6 - 75.7 LPM)				
	1" (H10)	5 - 50 GPM (18.9 - 190 LPM) 10 - 100 GPM (38.0 - 380 LPM)				
	1-1/2" (H15) 2" (H20)	20 - 200 GPM (38.0 - 380 LPM)				
Accuracy (% of Re	· ·	Turbine Only Turbine w/Computer				
Accuracy ( /0 of ne	1/2" (H05)	$\pm 2.0\%$ $\pm 1.5\%$				
	3/4" (H07)	$\pm 1.5\%$ $\pm 1.0\%$				
	1" (H10)	± 1.5% ± 1.0%				
	1-1/2" (H15)	± 1.0% ± 0.75%				
	2" (H20)	± 1.0% ± 0.75%				
Repeatability:		± 0.1%				
Pressure Rating:		3,000 PSI / 207 BAR				
Operating Tempera		-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:		2,500				
	3/4" (H07)	1,100				
	1" (H10)	565				
	1-1/2" (H15) 2" (H20)	215 100				
Wetted Materials:	Housing: Bearings:	316 Stainless Steel				
	Shaft:	Ceramic Tungsten Carbide				
	Rotor:	PVDF				
	Rings:	316 Stainless Steel				
Frequency Range:	1/2" (H05)	42 - 420 Hz @ 1 - 10 GPM				
	3/4" (H07)	37 - 370 Hz @ 2 - 20 GPM				
	1" (H10)	47 - 470 Hz @ 5 - 50 GPM				
	1-1/2" (H15)	36 - 360 Hz @ 10 - 100 GPM				
2" (H20) 33 - 330 Hz @ 20 - 200 GPM						
Recommended Str	ainer Size: 1/2" (H05)	55 mesh				
	3/4" (H05)	55 mesh				
	1" (H10)	55 mesh				
	1-1/2" (H15)	28 mesh				
	2" (H20)	28 mesh				
Maximum Flow:	1/2" (H05)	15 GPM (56.8 LPM)				
	3/4" (H07)	30 GPM (113.6 LPM)				
	1" (H10)	75 GPM (284 LPM)				
	1-1/2" (H15)	150 GPM (568 LPM)				
Wranah Flat Oi	2" (H20)	300 GPM (1,136 LPM)				
Wrench Flat Size:		1-1/16 inch (27 mm) 1-5/16 inch (33 mm)				
	3/4" (H07) 1" (H10)	1-5/8 inch (41 mm)				
	1-1/2" (H15)	2-3/8 inch (60 mm)				
	2" (H20)	3 inch (75 mm)				
Shipping Weight:	1/2" (H05)	2.3 lbs./1.0 kg - Turbine Only: 2.1 lbs./1.0 k				
	3/4" (H07)	2.4 lbs./1.1 kg - Turbine Only: 2.2 lbs./1.0 k				
	1" (H10)	3.0 lbs./1.3 kg - Turbine Only: 2.8 lbs./1.2 k				
	1-1/2" (H15)	4.6 lbs./2.1 kg - Turbine Only: 4.4 lbs./2.0 k				
	2" (H20)	6.8 lbs./3.0 kg - Turbine Only: 6.6 lbs./3.0 k				
		ONIC CHOICES				
Local Display, Re		Saa Saation 6				
& Remote Transmitter Options: See Section 6.						
APPROVALS						
CE						
		BUY SMART. BUY VALUE. BUY				

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# 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 Flan	ge		
Housing Material:		316 Stainless Steel			
Meter Sizes Availa	ible:	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	ading):	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			-40°C to +121°C)		
	h Computer:	+14°F to +140°I	F (-10°C to +60°C)		
Typical K-Factor:	1" (S10F)	565			
	1-1/2" (S15F)	215			
	2" (S20F)	100			
Wetted Materials:	-	316 Stainless Steel			
	Bearings:	Ceramic			
	Shaft:	Tungsten Carbio	le		
	Rotor:	PVDF 316 Stainless St	taal		
	Rings:	47 - 470 Hz @ 5 - 50 GPM			
Frequency Range:	• •				
	1-1/2" (S15F) 2" (S20F)	36 - 360 Hz @ 1 33 - 330 Hz @ 2			
Pasammandad St	<b>x</b> <i>y</i>	00 - 000 112 @ 2			
Recommended Str	ainer Size: 1" (S10F)	55 mesh			
	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 (284 LPM) 150 GPM (568 LPM)			
	2" (S20F)	300 GPM (1,136 LPM)			
Shipping Weight:	1" (S10F)	· · ·	, Turbine Only: 7.0 lbs./3.2 kg		
	1-1/2" (S15F)		Turbine Only: 11.1 lbs./5.0 kg		
	2" (S20F)		Turbine Only: 18.4 lbs./8.3 kg		
	ELECTRO	NIC CHOIC	ES		
Local Display, Re	mote Display				
& Remote Transm	& Remote Transmitter Options: See Section 6.				
	APP	ROVALS			
	) (€	Ex NEMA	ATEX IP44		

# **G2 Industrial Meters - Tri-Clover®**



The GPI Stainless Steel Meters with Tri-Clover<sup>®</sup> 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.

Т	<b>RI-CLOVER</b>	» - SPECIFICATIONS
Fitting Type:		Tri-Clover®
Housing Material:		316 Stainless Steel
Meter Sizes Availa	able:	1/2" 3/4" 1" 1-1/2" 2"
Tri-Clover® Fitting		3/4" 1" 1-1/2" 2" 2-1/2"
_		
Flow Range:	1/2" (S05T)	1 - 10 GPM (3.8 - 37.9 LPM)
	3/4" (S07T)	2 - 20 GPM (7.6 - 75.7 LPM)
	1" (S10T)	5 - 50 GPM (18.9 - 190 LPM)
	1-1/2" (S15T)	10 - 100 GPM (38.0 - 380 LPM)
	2" (S20T)	20 - 200 GPM (76 - 760 LPM)
Accuracy (% of Re	•/	Turbine Only Turbine w/Computer
	1/2" (S05T)	± 2.0% ± 1.5%
	3/4" (S07T)	± 1.5% ± 1.0%
	1" (S10T)	$\pm 1.5\%$ $\pm 1.0\%$
	1-1/2" (\$15T)	± 1.0% ± 0.75%
	2" (\$20T)	± 1.0% ± 0.75%
Repeatability:		± 0.1%
Pressure Rating:		Limited by fitting size, clamp size & temp.
Operating Temper	ature Range:	-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" (S05T)	2,500
	3/4" (S07T)	1,100
	1" (S10T)	565
	1-1/2" (S15T)	215
	2" (S20T)	100
Wetted Materials:	Housina:	316 Stainless Steel
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	PVDF
	Rings:	316 Stainless Steel
Frequency Range:	1/2" (S05T)	42 - 420 Hz @ 1 - 10 GPM
	3/4" (S07)	37 - 370 Hz @ 2 - 20 GPM
	1" (S10T)	47 - 470 Hz @ 5 - 50 GPM
	1-1/2" (S15T)	36 - 360 Hz @ 10 - 100 GPM
	2" (S20T)	33 - 330 Hz @ 20 - 200 GPM
Recommended St	rainer Size:	
	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 LPM)
	3/4" (S07T)	30 GPM (113.6 LPM)
	1" (S10T)	75 GPM (284 LPM)
	1-1/2" (S15T)	150 GPM (568 LPM)
	2" (S20T)	300 GPM (1,136 LPM)
Shipping Weight:	1/2" (S05T)	2.5 lbs./1.0 kg - Turbine Only: 2.3 lbs./1.0 kg
	3/4" (S07T)	2.9 lbs./1.3 kg - Turbine Only: 2.7 lbs./1.2 kg
	1" (S10T)	3.2 lbs./1.4 kg - Turbine Only: 3.0 lbs./1.3 kg
	1-1/2" (S15T)	4.7 lbs./2.1 kg - Turbine Only: 4.5 lbs./2.0 kg
	2" (S20T)	6.5 lbs./2.9 kg - Turbine Only: 6.3 lbs./2.8 kg
	ELECTR	ONIC CHOICES
Local Display, Re		
& Remote Transn		See Section 6.
	-	
		PROVALS
	) (6	Ex 4 ATEX IP44

# 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.

A	LUMINUM	- SPECIFIC	ATIONS
Fitting Type:		NPT or ISO (Fe	male)
Housing Material:		Aluminum	
Meter Sizes Availa	ıble:	1/2" 3/4"	1" 1-1/2" 2"
Flow Range:	1/2" (A05)	1 - 10 GPM	(3.8 - 37.9 LPM)
now nango.	3/4" (A07)	2 - 20 GPM	(7.6 - 75.7 LPM)
	1" (A10)	5 - 50 GPM	(18.9 - 190 LPM)
	1-1/2" (A15)	10 - 100 GPM	
	2" (A20)	20 - 200 GPM	(76 - 760 LPM)
Accuracy (% of Re	ading):	Turbine Only	Turbine w/Computer
	1/2" (A05)	± 2.0%	± 1.5%
	3/4" (A07)	± 1.5%	± 1.0%
	1" (A10)	± 1.5%	± 1.0%
	1-1/2" (A15)	± 1.0%	± 0.75%
	2" (A20)	± 1.0%	± 0.75%
Repeatability:		± 0.1%	
Pressure Rating:		300 PSI / 21 B	AR
<b>Operating Tempera</b>			F (-40°C to +121°C)
wit	h Computer:	+14°F to +140°	°F (-10°C to +60°C)
Typical K-Factor:	1/2" (A05)	2,500	
	3/4" (A07)	1,100	
	1" (A10)	565	
	1-1/2" (A15)	215	
	2" (A20)	100	
Wetted Materials:		Aluminum	
	Bearings:	Ceramic	do
	Shaft: Rotor:	Tungsten Carbi PVDF	ue
	Rotor: Rings:	316 Stainless S	Steel
	-		
Frequency Range:	1/2" (AU5) 3/4" (A07)	42 - 420 Hz @ 37 - 370 Hz @	
	1" (A10)	47 - 470 Hz @	
	1-1/2" (A15)	36 - 360 Hz @	
	2" (A20)	33 - 330 Hz @	
Recommended Str	• •		
	1/2" (A05)	55 mesh	
	3/4" (A07)	55 mesh	
	1" (A10)	55 mesh	
	1-1/2" (A15)	28 mesh	
	2" (A20)	28 mesh	
Maximum Flow:	1/2" (A05)	15 GPM (56.8	
	3/4" (A07)	30 GPM (113.	
	1" (A10)	75 GPM (284	
	1-1/2" (A15) 2" (A20)	150 GPM (568	
Wrenet Elst O	2" (A20)	300 GPM (1,1	
Wrench Flat Size:	1/2" (A05) 3/4" (A07)	1-1/16 inch (2	
	3/4" (A07) 1" (A10)	1-5/16 inch (3 1-5/8 inch (41	
	1-1/2" (A15)	2-3/8 inch (60	
	2" (A20)	3 inch (75 mm	
Shipping Weight:	1/2" (A05)		- Turbine Only: 1.1 lbs./.50 l
epping worght.	3/4" (A07)		- Turbine Only: 1.2 lbs./.50 l
	1" (A10)	1.6 lbs./.73 kg	- Turbine Only: 1.4 lbs./.63 l
	1-1/2" (A15)	2.8 lbs./1.3 kg	- Turbine Only: 2.6 lbs./1.2 l
	2" (A20)		- Turbine Only: 3.7 lbs./1.7 l
	ELECTRO	<b>DNIC CHOI</b>	CES
Local Display, Rer	note Display		
& Remote Transmi		See Section 6.	
	•	PROVALS	
<u>سم</u> در ال	) (€		ATEX IP44
		<b>BUY SMART</b>	. BUY VALUE . BUY 🜈 💋

# ECTION 2: G2 INDUSTRIAL GRADE METERS

# **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 - SPECIFICATIONS						
Fitting Type:		NPT or	ISO (Fe	male)		
Housing Material:		Brass				
Meter Sizes Availa	ıble:	1/2"	3/4"	1"	1-1/2	" 2"
Flow Range:	1/2" (B05)	1 - 10 (	GPM	(3.8 - 3	37.9 LPM)	
	3/4" (B07)	2 - 20 (	GPM	· ·	75.7 LPM)	
	1" (B10)	5 - 50 (		· ·	190 LPM)	
	1-1/2" (B15)		0 GPM		380 LPM)	
	2" (B20)		0 GPM		60 LPM)	
Accuracy (% of Re	adıng): 1/2" (B05)	Turbine ± 2.		lurb	ine w/Com ± 1.5%	iputer
	3/4" (B05)	± 2. ± 1.			± 1.0%	
	1" (B10)	± 1.			± 1.0%	
	1-1/2" (B15)	± 1.			± 0.75%	
	2" (B20)	± 1.	0%		± 0.75%	
Repeatability:		± 0.1%				
Pressure Rating:		300 PS	I / 21 B/	٩R		
Operating Tempera	ature Range:	-40°F t	o +250°	F (-40°	C to +121°	C)
	h Computer:				C to +60°C	
Typical K-Factor:	1/2" (B05)	2,500				
	3/4" (B07)	1,100				
	1" (B10)	565				
	1-1/2" (B15)	215				
	2" (B20)	100				
Wetted Materials:	•	Brass				
	Bearings: Shaft:	Cerami	c en Carbi	do		
	Rotor:	PVDF	SII Galui	uc		
	Rings:		ainless S	Steel		
Frequency Range:	-	42 - 42	0 Hz @	1 - 10 G	PM	
	3/4" (B07)			2 - 20 G		
	1" (B10)	47 - 47	0 Hz @	5 - 50 G	PM	
	1-1/2" (B15)			10 - 100		
	2" (B20)	33 - 33	0 Hz @	20 - 200	) GPM	
Recommended Str						
	1/2" (B05)	55 mes				
	3/4" (B07) 1" (B10)	55 mes 55 mes				
	1-1/2" (B15)	28 mes				
	2" (B20)	28 mes				
Maximum Flow:	1/2" (B05)	15 GPN	A (56.8	LPM)		
	3/4" (B07)		/ (113.0			
	1" (B10)		1 (284	,		
	1-1/2" (B15)		M (568			
	2" (B20)			36 LPM	)	
Wrench Flat Size:	1/2" (B05)		inch (2			
	3/4" (B07) 1" (B10)		inch (3 1ch (41			
	1-1/2" (B15)		nch (60			
	2" (B20)		(75 mm			
Shipping Weight:	1/2" (B05)				Only: 2.2 II	os./1.0 ka
	3/4" (B07)				Only: 2.4 II	
	1" (B10)					lbs./1.3 kg
	1-1/2" (B15)					lbs./1.3 kg
	2" (B20) 10.0 lbs./4.5 kg - Turbine Only: 9.8 lbs./4.4 kg				10s./4.4 kg	
ELECTRONIC CHOICES						
Local Display, Remote Display						
& Remote Transmi	tter Options:	See Se	ction 6.			
	AP	PROV	<b>LS</b>			
	((		NEM	A	TEV	ID44
	CE	$\langle x y \rangle$	4	F	ATEX	IP44
			MADT	_		

# 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:

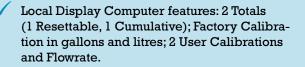
l inch

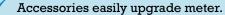
1/2 inch



### Features and Benefits:

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





One field replaceable internal part makes maintenance easy.

Citizen Transa	PVC - SP				
Fitting Type:			Weld (Female)		
Housing Material:		PVC			
Meter Sizes Availa	ble:	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	ature Range:		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°I	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 @ 9	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 l	,		
Shipping Weight:	1/2" (C05)		- Turbine Only: 1.1 lbs./.51 kg		
	1" (C10)	-	- Turbine Only: 1.7 lbs./.77 kg		
	ELECTRONIC CHOICES				
Local Display, Rer	note Display				
& Remote Transmi	& Remote Transmitter Options:				
	APPROVALS				
		CE			

# SECTION 2: G2 INDUSTRIAL GRADE METERS

# **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:

1/2 inch l 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 - SPECIFICATIONS				
Fitting Type:		NPT or ISO (Fe	NPT or ISO (Female)		
Housing Material:	Housing Material:				
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	ature Range:		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:		PVDF			
	Bearings:	Ceramic - 98%	Alumina		
	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 I	,		
Shipping Weight:	1/2" (P05)	U	- Turbine Only: 1.1 lbs./.54 kg		
	1" (P10)	0	- Turbine Only: 1.7 lbs./.77 kg		
	-	DNIC CHOI	CES		
• • •	Local Display, Remote Display				
& Remote Transmitter Options:		See Section 6.			



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



Features and Benefits:

- ✓ Accommodates fluid temperatures from -40°F to +250°F (-40°C to +121°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.

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		

# 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 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					

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



Provides two digital signals: Open Collector or 6-volt Square Wave and can communicate with most process control devices.

Operating temperature range of  $-40^{\circ}$ F to  $+212^{\circ}$ F (-40°C to  $+100^{\circ}$ 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				

# 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)



# Features and Benefits:

- Provides a digital Open Collector signal.
- Operating temperature range of  $+14^{\circ}$ F to  $+140^{\circ}$ F ( $-10^{\circ}$ 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.

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 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		

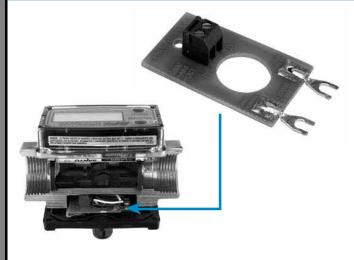
The Pulse Access Module provides an unscaled, digital signal from your GPI meter by accessing circuitry from the on-board computer readout.

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.

	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				
	RILY SMART BILY VALUE BILY				

# 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.

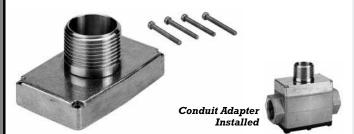
## Features and Benefits:

- 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.

• • •	SPECIFICATIONS				
0°F	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.

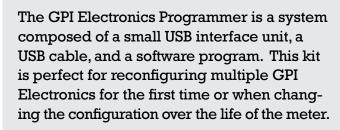
# Pulse Access Dust Cover (Part No. 125080-1)





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)





GM Series Oval Gear Meters are designed for low flow and high accuracy. GM Series Meters are great for viscous fluids. Units are available with pulse output from either a Reed Switch or Hall Effect Sensor. Electronics choices for the GM Series Meters are covered in Section 6.

# Build-Your-Own GM Oval Gear Meter

GM Meters come in a variety of sizes and materials.



Pulse Meter



**Mechanical Meter** 



# 2) Select Your Sensor

Reed Switch (Standard) Hall Effect Requires Dedicated Power Source Combo Reed Switch / Hall Effect (Available on GM001, GM002 and GM003)



For further details and selections see Electronics Section on page 56.



**GA** 4-20 mA Output Without Display



**GG** Display With Pulse Output



GX Display 4-20 mA Output (Remote)



**Pulse Output** 



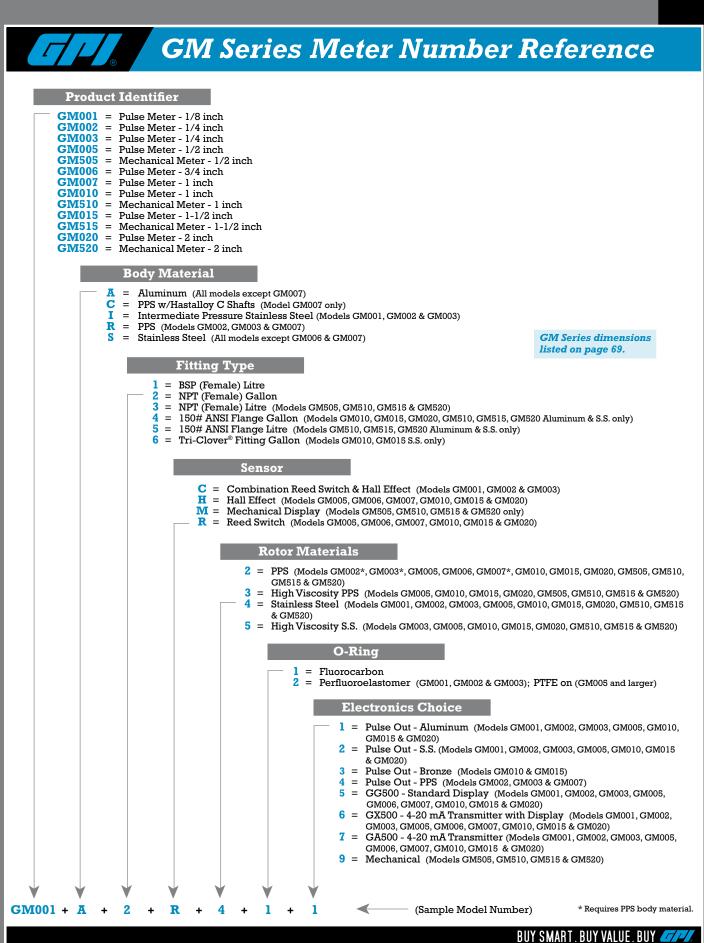
4) Need a Strainer?

Oval Gear Meters work best with clean fluid, free of debris.

GPI carries Y Strainers to fit all models of Oval Gear Meters. These strainers range from 1/4 in. to 2 in. models. All sizes are 316 Stainless Steel and come complete with blow-off and plug. See page 72 for strainer specifications.







# GM001 - 1/8" Oval Gear Pulse Meter





Shown here with Local Display

The GM001 is one of three compact meters in the GM Series Meter line. This meter is small and accurate. Choose from either Aluminum or 316 Stainless Steel body materials, both with stainless steel rotors. The GM001 can handle a wide range of fluid viscosities.

# ACCURACY: ± 1.0% OF READING

### Select Your Body Material:

Aluminum Stainless Steel Intermediate Pressure Stainless Steel

# $\sim$

### Features and Benefits:

- Up to 1,000 cps viscosity.
- Compact, durable and serviceable on-site. Extremely accurate even with viscous fluids.
- Meter design minimizes the number of wearable parts – extending product life.
- ✓ Handles particle sizes to 0.005"/0.127 mm.
- Comes with combination board (includes Reed Switch/Hall Effect Sensor\*).
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

GM001	- SPECIFICATIONS
Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch / Hall Effect Sensor* Combo
Rotor Material:	316 Stainless Steel
O-Ring:	Fluorocarbon (Std.), Perfluoroelastomer (Optional)
Output Options:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display Local Display with 4-20 mA Output
Flow Range:	0.13 - 13.2 GPH (0.5 - 50 LPH)
Flow Range @ < 5 cps:	0.528 - 13.2 GPH (2 - 50 LPH)
Accuracy:	± 1.0% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	1,000 cps
Pressure Rating: Aluminum: Stainless Steel: Intermed. Pressure SS:	75 PSI / 5 BAR 150 PSI / 10 BAR 800 PSI / 55 BAR
Maximum Temperature: Aluminum: Stainless Steel: Intermed. Pressure SS:	176°F / 80°C 248°F / 120°C 248°F / 120°C
Typical K-Factor:	5855.4 PPG / 1547 PPL
Wetted Mat'l Housing: Aluminum: Stainless Steel: Intermed. Pressure SS:	Aluminum with PPS Cap 316 Stainless Steel 316 Stainless Steel
Wetted Mat'l Bearings:	Sapphire
Wetted Mat'l Shaft:	316 Stainless Steel
Frequency Range:	0.2 - 21.5 Hz @ 0.13 - 13.2 GPH
<b>Recommended Strainer Size:</b>	200 mesh
Shipping Weight (approx.): Aluminum: Stainless Steel: Intermed. Pressure SS:	1.0 lbs. (0.45 kg) 2.0 lbs. (0.91 kg) 2.0 lbs. (0.91 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.



# GM002 - 1/4" Oval Gear Pulse Meter



The GM002 is one of the small capacity meters in the GM Series line and is differentiated by its flowrate capabilities. It has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability.

# ACCURACY: ± 1.0% OF READING

Select Your Body Material:

Aluminum PPS Stainless Steel High Pressure Stainless Steel Intermediate Pressure Stainless Steel

# NC -

# Features and Benefits:

- Up to 1,000 cps viscosity.
- Compact size and extremely accurate even with viscous fluids.
- Meter design minimizes the number of wearable parts – extending product life.
- Handles particle sizes to 0.005"/0.127 mm.
- Comes with combination board (includes Reed Switch/Hall Effect Sensor\*).
- Durable and serviceable on-site.
- Certificate of Accuracy supplied with meter.

GM002	- SPECIFICATIONS
Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch / Hall Effect Sensor* Combo
Rotor Material:	PPS or 316 Stainless Steel
0-Rina:	Fluorocarbon (Std.), Perfluoroelastomer
	(Optional)
Output Options:	
Aluminum:	Pulse Out or Local 4-20 mA Transmitter
PPS:	Pulse Out or Local 4-20 mA Transmitter
Stainless Steel:	Pulse Out or Local 4-20 mA Transmitter
High Pressure SS:	Pulse Out
Intermed. Pressure SS:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display
	Local Display with 4-20 mA Output
Flow Range:	0.53 - 26.4 GPH (2 - 100 LPH)
Flow Range @ < 5 cps:	1.32 - 26.4 GPH (5 - 100 LPH)
Accuracy:	± 1.0% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	1,000 cps
Pressure Rating:	
Aluminum:	75 PSI / 5 BAR
PPS:	75 PSI / 5 BAR
Stainless Steel:	150 PSI / 10 BAR
Intermed. Pressure SS:	800 PSI / 55 BAR
Maximum Temperature:	
Aluminum:	176°F / 80°C
PPS: Stainless Steel:	176°F / 80°C 248°F / 120°C
Intermed. Pressure SS:	248°F / 120°C
Typical K-Factor:	3785.4 PPG / 1000 PPL
Wetted Mat'l Housing:	3703.411071000112
Aluminum:	Aluminum with PPS Cap
PPS:	PPS
Stainless Steel:	316 Stainless Steel
Intermed. Pressure SS:	316 Stainless Steel
Wetted Mat'l Bearings:	
Aluminum:	Bronze
PPS Rotor:	N/A
Stainless Steel:	Ceramic
Intermed. Pressure SS:	Ceramic
Wetted Mat'l Shaft:	
Aluminum:	316 Stainless Steel
PPS: Stainless Steel:	Hastalloy C / Stainless Steel 316 Stainless Steel
Intermed. Pressure SS:	316 Stainless Steel
Frequency Range:	0.6 - 27.8 Hz @ 0.53 - 26.4 GPH
Recommended Strainer Size:	200 mesh
Shipping Weight (approx.):	Aluminum/PPS = 1 lb. $(0.45 \text{ kg})$ ,
Demote Diaul-ur	SS/Intermediate Pressure SS = 2 lbs. (0.91 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

# GM003 - 1/4" Oval Gear Pulse Meter



The GM003 is another of the GPI compact Pulse Meters. This 1/4-inch Pulse Meter has an increased flow range and offers the same ability to handle a wide range of fluid viscosities with exceptional levels of repeatability.

### ACCURACY: ± 1.0% OF READING

Select Your Body Material:

Aluminum PPS Stainless Steel High Pressure Stainless Steel Intermediate Pressure Stainless Steel



### Features and Benefits:

Up to 1,000 cps viscosity with standard rotor; 1,000,000 cps with high viscosity rotor.

- Compact size and extremely accurate even with viscous fluids.
- High viscosity stainless steel rotor available.
- Meter design minimizes the number of wearable parts – extending product life.
- ✓ Handles particle sizes to 0.005"/0.127 mm.
- Comes with combination board (includes Reed Switch/Hall Effect Sensor\*).
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

GM003	- SPECIFICATIONS
Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch / Hall Effect Sensor* Combo
Rotor Materials:	PPS, 316 Stainless Steel or High Viscosity SS
0-Ring:	Fluorocarbon (Std.), Perfluoroelastomer
	(Optional)
Output Options:	
Aluminum:	Pulse Out or Local 4-20 mA Transmitter
PPS:	Pulse Out or Local 4-20 mA Transmitter
Stainless Steel:	Pulse Out or Local 4-20 mA Transmitter
High Pressure SS:	Pulse Out
Intermed. Pressure SS:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display or Local Display w/4-20 mA Output
Flow Range:	4 - 132 GPH (15 - 500 LPH)
Flow Range @ < 5 cps:	6 - 132 GPH (25 - 500 LPH)
Accuracy:	± 1.0% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	Standard Rotors: 1,000 cps
	High Viscosity Rotors: 1,000,000 cps
Pressure Rating:	
Aluminum:	75 PSI / 5 BAR
PPS:	75 PSI / 5 BAR
Stainless Steel:	150 PSI / 10 BAR
Intermed. Pressure SS:	800 PSI / 55 BAR
Maximum Temperature:	
Aluminum:	176°F / 80°C
PPS:	176°F / 80°C
Stainless Steel: Intermed, Pressure SS:	248°F / 120°C 248°F / 120°C
Typical K-Factor:	1514.2 PPG / 400 PPL
Wetted Mat'l Housing: Aluminum:	Aluminum with DDC Con
PPS:	Aluminum with PPS Cap PPS
Stainless Steel:	316 Stainless Steel
Intermed. Pressure SS:	316 Stainless Steel
Wetted Mat'l Bearings:	
Aluminum:	Bronze
PPS Rotor:	N/A
Stainless Steel:	Ceramic
Intermed. Pressure SS:	Ceramic
Wetted Mat'l Shaft:	
Aluminum:	316 Stainless Steel
PPS:	Hastalloy C / Stainless Steel
Stainless Steel: Intermed, Pressure SS:	316 Stainless Steel 316 Stainless Steel
Frequency Range:	1.7 - 55.5 Hz @ 4 - 132 GPH
Recommended Strainer Size:	200 mesh
Shipping Weight (approx.):	Aluminum/PPS = 1 lb. $(0.45 \text{ kg})$ ,
	SS/Intermediate Pressure SS = 2 lbs. (0.91 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

# GM005 - 1/2" Oval Gear Pulse Meter



The GM005 Meter is a low to medium flow range model. The construction of this meter allows for fast and easy servicing while installed.

### ACCURACY: ± 0.5% OF READING

### Select Your Body Material:

Aluminum Stainless Steel



# Features and Benefits:

- High viscosity PPS and Stainless Steel rotors available.
- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

GM005 - SPECIFICATIONS	
Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch or Hall Effect Sensor*
Rotor Materials:	PPS or High Viscosity PPS
	316 Stainless Steel or High Viscosity Stainless Steel
0 Ding.	<b>0</b>
O-Ring:	Fluorocarbon (Standard), PTFE (Optional) Pulse Out or Local 4-20 mA Transmitter
Output Options:	
Display Options:	Local Display Local Display with 4-20 mA Output
Flow Range:	0.26 - 7.9 GPM (1 - 30 LPM)
Flow Range @ < 5 cps:	0.80 - 6.6 GPM (3 - 25 LPM)
Accuracy:	± 0.5% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	Standard Rotors: 1,000 cps
	High Viscosity Rotors: 1,000,000 cps
Pressure Rating:	800 PSI / 55 BAR
Maximum Temperature:	47005 (0000
PPS Rotors: SS Rotors:	176°F / 80°C 248°F / 120°C
Typical K-Factor:	
Single Pickup:	424 PPG / 112 PPL
Wetted Mat'l Housing:	
Aluminum:	Aluminum
Stainless Steel:	316 Stainless Steel
Wetted Mat'l Bearings:	PPS Rotors - PPS Bearings SS Rotors - Carbon Bearings
Wetted Mat'l Shaft:	316 Stainless Steel
Frequency Range:	1.8 - 55.8 Hz @ 0.26 - 7.9 GPM
Recommended Strainer Size:	60 mesh
	00 mesh
Shipping Weight (approx.): Aluminum:	3.25 lbs. (1.5 kg)
Stainless Steel:	6.0 lbs. (2.7 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

# GM505 - 1/2" Oval Gear Mechanical Meter



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The GM505 is the 1/2 inch Mechanical Meter in the GM Series. Use this meter with low to medium flow ranges. The GM505 is available in three fitting/ calibration combinations (NPT Gallon, NPT Litre and BSP Litre).

# ACCURACY: ± 1.0% OF READING

Select Your Body Material:

Aluminum Stainless Steel



### Features and Benefits:

- Cumulative and Resettable Totals.
- High viscosity PPS rotors available.
- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with easy-to-read Mechanical Display.
- Certificate of Accuracy supplied with meter.

GM505 -	SPECIFICATIONS
Fitting Type:	BSP or NPT (Female)
Sensor Options:	Mechanical Display
Rotor Materials:	PPS or High Viscosity PPS
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)
Output Options:	N/A
Display Options:	Mechanical Display
Flow Range:	0.26 - 7.9 GPM (1 - 30 LPM)
Flow Range @ < 5 cps:	0.80 - 6.6 GPM (3 - 25 LPM)
Accuracy:	± 1.0% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
Pressure Rating:	500 PSI / 34.5 BAR
Maximum Temperature:	176°F / 80°C
Typical K-Factor:	N/A
Wetted Mat'l Housing:	
Aluminum:	Aluminum
Stainless Steel:	316 Stainless Steel
Wetted Mat'l Bearings:	PPS
Wetted Mat'l Shaft:	316 Stainless Steel
Frequency Range:	N/A
<b>Recommended Strainer Size:</b>	60 mesh
Shipping Weight (approx.):	
Aluminum:	3.75 lbs. (1.7 kg)
Stainless Steel:	6.5 lbs. (2.9 kg)

# GM006 - 3/4" Oval Gear Pulse Meter



The GM006 Meter is a low to medium flow range model. This meter is great for lubrication products and fluids compatible with aluminum.

### ACCURACY: ± 0.5% OF READING

Select Your Body Material:

Aluminum



### Features and Benefits:

- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

<b>GM006</b> ·	SPECIFICATIONS
Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch or Hall Effect Sensor*
Rotor Materials:	PPS
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)
Output Options:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display
	Local Display with 4-20 mA Output
Flow Range:	0.8 - 15.8 GPM (3 - 60 LPM)
Flow Range @ < 5 cps:	4.5 - 15.8 GPM (17 - 60 LPM)
Accuracy:	± 0.5% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	Standard Rotors: 1,000 cps
Pressure Rating:	800 PSI / 55 BAR
Maximum Temperature:	
PPS Rotors:	176°F / 80°C
Typical K-Factor:	
Single Pickup:	197 PPG / 52 PPL
Wetted Mat'l Housing:	
Aluminum:	Aluminum
Wetted Mat'l Bearings:	PPS
Wetted Mat'l Shaft:	316 Stainless Steel
Frequency Range:	2.6 - 51.9 Hz @ 0.8 - 15.8 GPM
Recommended Strainer Size:	60 mesh
Shipping Weight (approx.):	
Aluminum:	4.30 lbs. (1.9 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

# GM007 - 1" Oval Gear Pulse Meter



Use the GM007 with aggressive chemicals and water. The PPS body and rotor materials provide excellent chemical compatibility in this 1-inch meter. This meter is a great choice when you need a rugged and reliable meter.

### ACCURACY: ± 0.5% OF READING

Select Your Body Material:

PPS PPS with Hastalloy C Shafts

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### Features and Benefits:

- PPS body and rotors are excellent for aggressive chemicals.
- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

Fitting Type:BSP or NPT (Female)Sensor Options:Reed Switch or Hall Effect Sensor*Rotor Material:PPSO-Ring:Fluorocarbon (Standard), PTFE (Optional)Output Options:Pulse Out or Local 4-20 mA TransmitterDisplay Options:Local DisplayLocal Display with 4-20 mA OutputFlow Range:0.8 - 21.0 GPM (3 - 80 LPM)Flow Range @ < 5 cps:2.1 - 18.5 GPM (8 - 70 LPM)Accuracy:± 0.5% of readingRepeatability:± 0.03%Maximum Viscosity:1,000 cpsPressure Rating:150 PSI / 10 BARMaximum Temperature:176°F / 80°CTypical K-Factor:9PSWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:9PSPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500Remote Transmitter:Options Available: Model GA500 & GX500	GM007 - SPECIFICATIONS		
Rotor Material:PPSO-Ring:Fluorocarbon (Standard), PTFE (Optional)Output Options:Pulse Out or Local 4-20 mA TransmitterDisplay Options:Local DisplayLocal Display with 4-20 mA OutputFlow Range:0.8 - 21.0 GPM (3 - 80 LPM)Flow Range @ < 5 cps:2.1 - 18.5 GPM (8 - 70 LPM)Accuracy:± 0.5% of readingRepeatability:± 0.03%Maximum Viscosity:1,000 cpsPressure Rating:150 PSI / 10 BARMaximum Temperature:176°F / 80°CTypical K-Factor:197 PPG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Shaft:PPSPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Fitting Type:	BSP or NPT (Female)	
O-Ring:Fluorocarbon (Standard), PTFE (Optional)Output Options:Pulse Out or Local 4-20 mA TransmitterDisplay Options:Local DisplayLocal Display with 4-20 mA OutputFlow Range:0.8 - 21.0 GPM (3 - 80 LPM)Flow Range @ < 5 cps:	Sensor Options:	Reed Switch or Hall Effect Sensor*	
Output Options:Pulse Out or Local 4-20 mA TransmitterDisplay Options:Local DisplayLocal Display with 4-20 mA OutputFlow Range:0.8 - 21.0 GPM (3 - 80 LPM)Flow Range @ < 5 cps:	Rotor Material:	PPS	
Display Options:Local DisplayDisplay Options:Local Display with 4-20 mA OutputFlow Range:0.8 - 21.0 GPM (3 - 80 LPM)Flow Range @ < 5 cps:2.1 - 18.5 GPM (8 - 70 LPM)Accuracy:± 0.5% of readingRepeatability:± 0.03%Maximum Viscosity:1,000 cpsPressure Rating:150 PSI / 10 BARMaximum Temperature:176°F / 80°CTypical K-Factor:197 PPG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:PPSPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	O-Ring:	Fluorocarbon (Standard), PTFE (Optional)	
Local Display with 4-20 mA OutputFlow Range:0.8 - 21.0 GPM (3 - 80 LPM)Flow Range @ < 5 cps:	Output Options:	Pulse Out or Local 4-20 mA Transmitter	
Flow Range:0.8 - 21.0 GPM (3 - 80 LPM)Flow Range @ < 5 cps:	Display Options:	Local Display	
Flow Range @ < 5 cps:		Local Display with 4-20 mA Output	
Accuracy:± 0.5% of readingRepeatability:± 0.03%Maximum Viscosity:1,000 cpsPressure Rating:150 PSI / 10 BARMaximum Temperature:176°F / 80°CTypical K-Factor:50 PSI / 10 PSG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:100 PSG / 52 PPLPPS:316 Stainless SteelPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Flow Range:	0.8 - 21.0 GPM (3 - 80 LPM)	
Repeatability:± 0.03%Maximum Viscosity:1,000 cpsPressure Rating:150 PSI / 10 BARMaximum Temperature:176°F / 80°CTypical K-Factor:197 PPG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:100 Chaines SteelPPS:316 Stainless SteelPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Flow Range @ < 5 cps:	2.1 - 18.5 GPM (8 - 70 LPM)	
Maximum Viscosity:1,000 cpsPressure Rating:150 PSI / 10 BARMaximum Temperature:176°F / 80°CTypical K-Factor:97 PPG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:998PPS:316 Stainless SteelPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Accuracy:	± 0.5% of reading	
Pressure Rating:150 PSI / 10 BARMaximum Temperature:176°F / 80°CTypical K-Factor:197 PPG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:197 PPG / 52 PPLPPS:316 Stainless SteelPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Repeatability:	± 0.03%	
Maximum Temperature:       176°F / 80°C         Typical K-Factor:       197 PPG / 52 PPL         Wetted Mat'l Housing:       PPS         Wetted Mat'l Bearings:       PPS         Wetted Mat'l Shaft:       PPS:         PPS:       316 Stainless Steel         PPS with Hastalloy C:       Hastalloy C         Frequency Range:       2.6 - 69.0 Hz @ 0.8 - 21 GPM         Recommended Strainer Size:       60 mesh         Shipping Weight (approx.):       3.0 lbs. (1.3 kg)         Remote Display:       Option Available: Model GG500	Maximum Viscosity:	1,000 cps	
Typical K-Factor:Ig7 PPG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:PPSPPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Pressure Rating:	150 PSI / 10 BAR	
Single Pickup:197 PPG / 52 PPLWetted Mat'l Housing:PPSWetted Mat'l Bearings:PPSWetted Mat'l Shaft:PPS:Stainless SteelPPS:PPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Maximum Temperature:	176°F / 80°C	
Wetted Mat'l Housing:       PPS         Wetted Mat'l Bearings:       PPS         Wetted Mat'l Shaft:       PPS:         PPS:       316 Stainless Steel         PPS with Hastalloy C:       Hastalloy C         Frequency Range:       2.6 - 69.0 Hz @ 0.8 - 21 GPM         Recommended Strainer Size:       60 mesh         Shipping Weight (approx.):       3.0 lbs. (1.3 kg)         Remote Display:       Option Available: Model GG500	Typical K-Factor:		
Wetted Mat'l Bearings:       PPS         Wetted Mat'l Shaft:       16 Stainless Steel         PPS:       316 Stainless Steel         PPS with Hastalloy C:       Hastalloy C         Frequency Range:       2.6 - 69.0 Hz @ 0.8 - 21 GPM         Recommended Strainer Size:       60 mesh         Shipping Weight (approx.):       3.0 lbs. (1.3 kg)         Remote Display:       Option Available: Model GG500	Single Pickup:	197 PPG / 52 PPL	
Wetted Mat'l Shaft:       316 Stainless Steel         PPS:       316 Stainless Steel         PPS with Hastalloy C:       Hastalloy C         Frequency Range:       2.6 - 69.0 Hz @ 0.8 - 21 GPM         Recommended Strainer Size:       60 mesh         Shipping Weight (approx.):       3.0 lbs. (1.3 kg)         Remote Display:       Option Available: Model GG500	Wetted Mat'l Housing:	PPS	
PPS:316 Stainless SteelPPS with Hastalloy C:Hastalloy CFrequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	Wetted Mat'l Bearings:	PPS	
PPS with Hastalloy C:       Hastalloy C         Frequency Range:       2.6 - 69.0 Hz @ 0.8 - 21 GPM         Recommended Strainer Size:       60 mesh         Shipping Weight (approx.):       3.0 lbs. (1.3 kg)         Remote Display:       Option Available: Model GG500	Wetted Mat'l Shaft:		
Frequency Range:2.6 - 69.0 Hz @ 0.8 - 21 GPMRecommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	PPS:	316 Stainless Steel	
Recommended Strainer Size:60 meshShipping Weight (approx.):3.0 lbs. (1.3 kg)Remote Display:Option Available: Model GG500	PPS with Hastalloy C:	Hastalloy C	
Shipping Weight (approx.):       3.0 lbs. (1.3 kg)         Remote Display:       Option Available: Model GG500	Frequency Range:	2.6 - 69.0 Hz @ 0.8 - 21 GPM	
Remote Display: Option Available: Model GG500	<b>Recommended Strainer Size:</b>	60 mesh	
	Shipping Weight (approx.):	3.0 lbs. (1.3 kg)	
Remote Transmitter: Options Available: Models GA500 & GX500	Remote Display:	Option Available: Model GG500	
	Remote Transmitter:	Options Available: Models GA500 & GX500	

\* Hall Effect Sensor requires dedicated power source.



# GM010 - 1" Oval Gear Pulse Meter



The GM010 Meter is a 1-inch meter available in Aluminum or 316 Stainless Steel body materials. Optional 150# ANSI Flange Fittings are available on the GM010.

# ACCURACY: ± 0.5% OF READING

Select Your Body Material:

Aluminum Stainless Steel



# Features and Benefits:

- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

GM010 -	- SPECIFICATIONS
Fitting Type:	
Aluminum:	BSP or NPT (Female), 150# ANSI Flange
Stainless Steel:	BSP or NPT (Female), 150# ANSI Flange
Sensor Options:	Reed Switch or Hall Effect Sensor*
Rotor Materials:	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)
Output Options:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display Local Display with 4-20 mA Output
Flow Range:	1.6 - 32 GPM (6 - 120 LPM)
Flow Range @ < 5 cps:	2.6 - 26.4 GPM (10 - 100 LPM)
Accuracy:	± 0.5% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
Pressure Rating:	800 PSI / 55 BAR or Flange Rule
Maximum Temperature:	
PPS Rotors:	176°F / 80°C
SS Rotors:	248°F / 120°C
Typical K-Factor:	
Single Pickup: Double Pickup:	136.3 PPG / 36 PPL 272.6 PPG / 72 PPL
Wetted Mat'l Housing:	
Aluminum:	Aluminum
Stainless Steel:	316 Stainless Steel
Wetted Mat'l Bearings:	PPS Rotors - PPS Bearings
	SS Rotors - Carbon Bearings
Wetted Mat'l Shaft:	316 Stainless Steel
Frequency Range:	3.6 - 72.7 Hz @ 1.6 - 332 GPM
<b>Recommended Strainer Size:</b>	60 mesh
Shipping Weight (approx.):	
Aluminum:	4.9 lbs. (2.2 kg) - Pulse
Stainless Steel:	6.6 lbs. (2.9 kg) - 150# ANSI Flange 12.5 lbs. (5.7 kg) - Pulse
Stanness Steel.	12.5 lbs. (5.7 kg) - Pulse 14.6 lbs. (6.6 kg) - 150# ANSI Flange
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

CM010 SPECIFICATION

\* Hall Effect Sensor requires dedicated power source.

# GM510 - 1" Oval Gear Mechanical Meter



The GM510 is a Mechanical Meter available in Aluminum or 316 Stainless Steel body materials. Optional 150# ANSI Flanges are available on the GM510.

# ACCURACY: ± 1.0% OFREADING

# Select Your Body Material:

Aluminum Stainless Steel



# Features and Benefits:

- Cumulative and Resettable Totals.
- BSP or NPT fittings are standard, optional 150# ANSI Flanges are available.
- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with easy-to-read Mechanical Display.
- Certificate of Accuracy supplied with meter.

GM510 - SPECIFICATIONS		
Fitting Type:		
Aluminum:	BSP or NPT (Female), 150# ANSI Flange	
Stainless Steel:	BSP or NPT (Female), 150# ANSI Flange	
Sensor Options:	Mechanical Display	
Rotor Materials:	PPS or High Viscosity PPS, 316 Stainless Steel	
	or High Viscosity Stainless Steel	
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)	
Output Options:	N/A	
Display Options:	Mechanical Display	
Flow Range:	1.6 - 32 GPM (6 - 120 LPM)	
Flow Range @ < 5 cps:	2.6 - 26.4 GPM (10 - 100 LPM)	
Accuracy:	± 1.0% of reading	
Repeatability:	± 0.03%	
Maximum Viscosity:	Standard Rotors: 1,000 cps	
	High Viscosity Rotors: 1,000,000 cps	
Pressure Rating:	500 PSI / 34.5 BAR or Flange Rule	
Maximum Temperature:		
PPS Rotors:	176°F / 80°C	
SS Rotors:	248°F / 120°C	
Typical K-Factor:	N/A	
Wetted Mat'l Housing:		
Aluminum:	Aluminum	
Stainless Steel:	316 Stainless Steel	
Wetted Mat'l Bearings:	PPS Rotors - PPS Bearings	
	SS Rotors - Carbon Bearings	
Wetted Mat'l Shaft:	316 Stainless Steel	
Frequency Range:	N/A	
Recommended Strainer Size:	60 mesh	
Shipping Weight (approx.):		
Aluminum:	4.9 lbs. (2.2 kg) - Pulse	
	7.0 lbs. (3.1 kg) - 150# ANSI Flange	
Stainless Steel:	11.7 lbs. (5.3 kg) - Pulse	
	13.6 lbs. (6.2 kg) - 150# ANSI Flange	

# GM015 - 1-1/2" Oval Gear Pulse Meter



The GM015 is our medium to large capacity meter with 1-1/2-inch fittings. Optional 150# ANSI Flange Fittings are available on the GM015. The GM015 can be installed without regard to straight pipe runs making installation easy.

### ACCURACY: ± 0.5% OF READING

Select Your Body Material:

Aluminum Stainless Steel

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### Features and Benefits:

- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

GM015	- SPECIFICATIONS		
Fitting Type:			
Aluminum:	BSP or NPT (Female), 150# ANSI Flange		
Stainless Steel:	BSP or NPT (Female), 150# ANSI Flange		
Sensor Options:	Reed Switch or Hall Effect Sensor*		
Rotor Materials:	PPS or High Viscosity PPS, 316 Stainless Steel		
	or High Viscosity Stainless Steel		
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)		
Output Options:	Pulse Out or Local 4-20 mA Transmitter		
Display Options:	Local Display		
	Local Display with 4-20 mA Output		
Flow Range:	2.6 - 66 GPM (10 - 250 LPM)		
Flow Range @ < 5 cps:	4.0 - 62.5 GPM (15 - 235 LPM)		
Accuracy:	± 0.5% of reading		
Repeatability:	± 0.03%		
Maximum Viscosity:	Standard Rotors: 1,000 cps		
	High Viscosity Rotors: 1,000,000 cps		
Pressure Rating:			
Aluminum:	800 PSI / 55 BAR or Flange Rule		
Stainless Steel:	800 PSI / 55 BAR or Flange Rule		
Maximum Temperature:			
PPS Rotors:         176°F / 80°C           SS Rotors:         248°F / 120°C			
	240 F / 120 G		
Typical K-Factor: Single Pickup:	54.9 PPG / 14.5 PPL		
Double Pickup:	109.8 PPG / 29 PPL		
Wetted Mat'l Housing:			
Aluminum:	Aluminum		
Stainless Steel:	316 Stainless Steel		
Wetted Mat'l Bearings:	PPS Rotors - PPS Bearings		
	SS Rotors - Carbon Bearings		
Wetted Mat'l Shaft:	316 Stainless Steel		
Frequency Range:	2.4 - 60.4 Hz @ 2.6 - 66 GPM		
Recommended Strainer Size:	ze: 60 mesh		
Shipping Weight (approx.):			
Aluminum:	10.0 lbs. (4.5 kg) - Pulse		
Oto in loss Oto - I	12.0 lbs. (5.4 kg) - 150# ANSI Flange		
Stainless Steel:	18.4 lbs. (8.4 kg) - Pulse 20.9 lbs. (9.4 kg) - 150# ANSI Flange		
Demete Disular			
Remote Display:	Option Available: Model GG500		
Remote Transmitter:	Options Available: Models GA500 & GX500		

GM015 - SPECIFICATIONS

\* Hall Effect Sensor requires dedicated power source.

# GM515 - 1-1/2" Oval Gear Mechanical Meter



The GM515 is a medium to large capacity meter with Mechanical Sensor and Display. Optional 150# ANSI Flanges are available on the GM515 model. This meter can handle high viscosity fluids without sacrificing accuracy.

### ACCURACY: ± 1.0% OF READING

Select Your Body Material:

Aluminum Stainless Steel



### Features and Benefits:

- Cumulative and Resettable Totals.
- Models available with BSP, NPT or 150# ANSI Flange Fittings.
- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.015"/0.38 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with easy-to-read Mechanical Display.
- Certificate of Accuracy supplied with meter.

GM515	- SPECIFICATIONS	
Fitting Type:	BSP or NPT (Female), 150# ANSI Flange	
Sensor Options:	Mechanical Display	
Rotor Materials:	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel	
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)	
Output Options:	N/A	
Display Options:	Mechanical Display	
Flow Range:	2.6 - 66 GPM (10 - 250 LPM)	
Flow Range @ < 5 cps:	4.0 - 62.0 GPM (15 - 235 LPM)	
Accuracy:	± 1.0% of reading	
Repeatability:	± 0.03%	
Maximum Viscosity:	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps	
Dressure Delines		
Pressure Rating: Aluminum:	500 PSI / 34.5 BAR	
Stainless Steel:	500 PSI / 34.5 BAR or Flange Rule	
Maximum Temperature:		
PPS Rotors:	176°F / 80°C	
SS Rotors:	248°F / 120°C	
Typical K-Factor:	N/A	
Wetted Mat'l Housing:		
Aluminum:	Aluminum	
Stainless Steel:	316 Stainless Steel	
Wetted Mat'l Bearings:	PPS Rotors - PPS Bearings	
	SS Rotors - Carbon Bearings	
Wetted Mat'l Shaft:	316 Stainless Steel	
Frequency Range:	N/A	
<b>Recommended Strainer Size:</b>	60 mesh	
Shipping Weight (approx.):		
Aluminum:	9.9 lbs. (4.5 kg) - Mechanical	
	12.0 lbs. (5.4 kg) - 150# ANSI Flange	
Stainless Steel:	17.6 lbs. (8.0 kg) - Mechanical	
	20.2 lbs. (9.2 kg) - 150# ANSI Flange	

# GM020 - 2" Oval Gear Pulse Meter



The GM020 is the largest of our GM Series Meters. The fitting size is 2 inches on this large meter. This meter includes NPT or BSP fittings as standard. Choose from four rotor options; PPS is standard.

### ACCURACY: ± 0.5% OF READING

### Select Your Body Material:

Aluminum Stainless Steel



# Features and Benefits:

- Models available with BSP, NPT or 150# ANSI Flange Fittings.
- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.011"/0.28 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- Choose from a variety of Output and Display Options.
- Certificate of Accuracy supplied with meter.

GIVI020	- SPECIFICATIONS		
Fitting Type:			
Aluminum:	BSP or NPT (Female), 150# ANSI Flange		
Stainless Steel:	150# ANSI Flange		
Sensor Options:	Reed Switch or Hall Effect Sensor*		
Rotor Materials:	PPS or High Viscosity PPS, 316 Stainless Steel		
	or High Viscosity Stainless Steel		
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)		
Output Options:	Pulse Out or Local 4-20 mA Transmitter		
Display Options:	Local Display		
	Local Display with 4-20 mA Output		
Flow Range:	4.0 - 92.5 GPM (15 - 350 LPM)		
Flow Range @ < 5 cps:	8.0 - 79.0 GPM (30 - 300 LPM)		
Accuracy:	± 0.5% of reading		
Repeatability:	± 0.03%		
Maximum Viscosity:	Standard Rotors: 1,000 cps		
	High Viscosity Rotors: 1,000,000 cps		
Pressure Rating:			
Aluminum:	800 PSI / 55 BAR or Flange Rule		
Stainless Steel:	Flange Rule		
Maximum Temperature:	17005 (0000		
PPS Rotors: SS Rotors:	176°F / 80°C 248°F / 120°C		
Typical K-Factor: Single Pickup:	25.3 PPG / 6.7 PPL		
Double Pickup:	50.6 PPG / 13.4 PPL		
Wetted Mat'l Housing:			
Aluminum:	Aluminum		
Stainless Steel:	316 Stainless Steel		
Wetted Mat'l Bearings:	PPS Rotors - PPS Bearings		
	SS Rotors - Carbon Bearings		
Wetted Mat'l Shaft:	316 Stainless Steel		
Frequency Range:	1.7 - 39.0 Hz @ 4.0 - 92.5 GPM		
Recommended Strainer Size:	e: 60 mesh		
Shipping Weight (approx.):			
Aluminum:	17.1 lbs. (7.8 kg) - Pulse		
20.1 lbs. (9.1 kg) - 150# ANSI Flange           Stainless Steel:         20.1 lbs. (9.1 kg) - Pulse			
0101111633 01661.	46.3 lbs. (2.1 kg) - 150# ANSI Flange		
Remote Display:	Option Available: Model GG500		
Remote Transmitter:	Options Available: Models GA500 & GX500		

**GM020 - SPECIFICATIONS** 

\* Hall Effect Sensor requires dedicated power source.

# GM520 - 2" Oval Gear Mechanical Meter



The GM520 is the Mechanical version of our large capacity meter. Choose from either Aluminum or 316 Stainless Steel body materials. This meter can be mounted horizontally or vertically depending on your application.

### ACCURACY: ± 1.0% OFREADING

Select Your Body Material:

Aluminum Stainless Steel



### Features and Benefits:

- Cumulative and Resettable Totals.
- Five Fitting / Calibration offerings are available, 150# ANSI Flanges are one of the options.
- Extremely accurate even with viscous fluids.
- Handles particle sizes to 0.015"/0.38 mm.
- Meter design minimizes the number of wearable parts – extending product life.
- Comes with easy-to-read Mechanical Display.
- Certificate of Accuracy supplied with meter.

GM520 - SPECIFICATIONS			
Fitting Type:			
Aluminum:	BSP or NPT (Female), 150# ANSI Flange		
Stainless Steel:	150# ANSI Flange		
Sensor Options:	Mechanical Display		
Rotor Materials:	PPS or High Viscosity PPS, 316 Stainless Steel		
	or High Viscosity Stainless Steel		
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)		
Output Options:	N/A		
Display Options:	Mechanical Display		
Flow Range:	4.0 - 92.5 GPM (15 - 350 LPM)		
Flow Range @ < 5 cps:	7.9 - 79.3 GPM (30 - 300 LPM)		
Accuracy:	± 1.0% of reading		
Repeatability:	± 0.03%		
Maximum Viscosity:	Standard Rotors: 1,000 cps		
	High Viscosity Rotors: 1,000,000 cps		
Pressure Rating:			
Aluminum:	500 PSI / 34.5 BAR or Flange Rule		
Stainless Steel:	Flange Rule		
Maximum Temperature: PPS Rotors:	17095 / 0090		
SS Rotors:	176°F / 80°C 248°F / 120°C		
Typical K-Factor:	N/A		
Wetted Mat'l Housing:			
Aluminum:	Aluminum		
Stainless Steel:	316 Stainless Steel		
Wetted Mat'l Bearings:	PPS Rotors - PPS Bearings		
	SS Rotors - Carbon Bearings		
Wetted Mat'l Shaft:	316 Stainless Steel		
Frequency Range:	N/A		
<b>Recommended Strainer Size:</b>	60 mesh		
Shipping Weight (approx.):			
Aluminum:	17.1 lbs. (7.7 kg) - Mechanical		
Stainless Steel:	20.1 lbs. (9.1 kg) - 150# ANSI Flange 46.3 lbs. (2.1 kg) - 150# ANSI Flange		
Statilless Steel.	40.3 IDS. (2.1 KY) - 130# ANOT FIAILYE		



Commercial Grade Meters are designed as self-contained, battery powered units. These indicating meters come in Aluminum or Nylon only. Al Meters are not field serviceable like the popular G2 Series Meters. For Flowmeters with advanced features and additional housing materials, refer to the G Series, G2 Series or GM Series sections in this catalog.



# **Build-Your-Own Al Series Meter**

..... I) Select Your Turbine



Aluminum



Nylon



# 2) Select Your Electronic Choice

For further details see page 56.



09 Computer



XX No Computer



3) Select Your Module

For further details see page 48.



. . . . . . . . .

**Standard Remote Kit** 



FM Approved Remote Kit



Conditioned Signal Module



# 6) Do you require any accessories

### For further details see page 50.

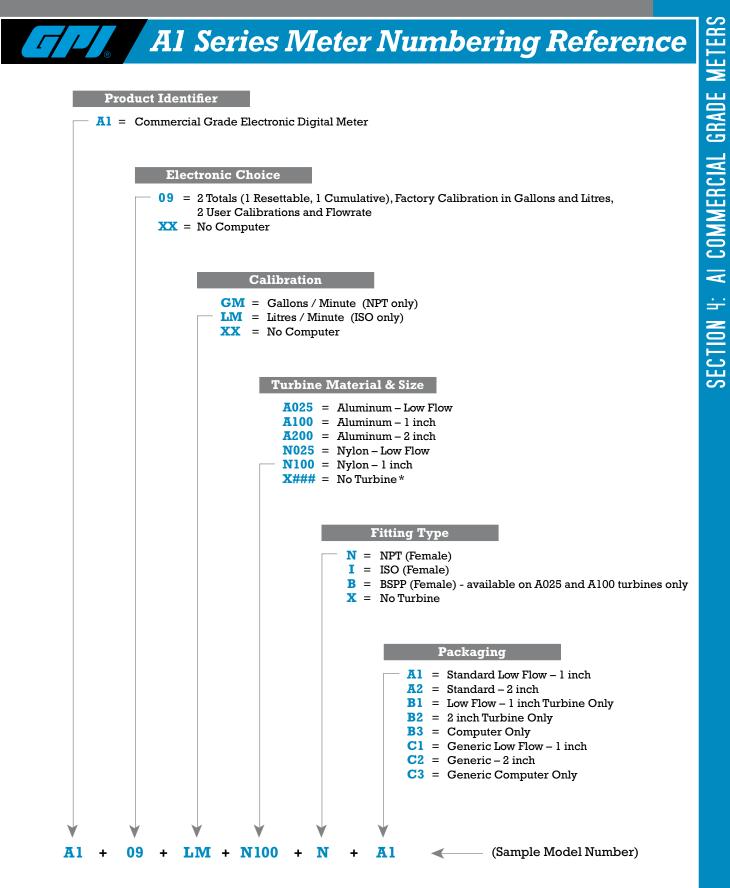






**GPI Electronics Programmer** 





\* When ordering Computer Assembly Only, specify Turbine Housing size.

### Al Commercial Grade Meters **GPI** Commercial Grade Aluminum Meters are identified by an Al prefix. Commercial CALIBRATE Grade Meters are packaged DISPLAY as a self-contained unit. Select this meter when you need an accurate, basic Nylon meter. GPI Commercial Grade Meters come in Aluminum and Nylon. CALIBRATE Choose one of three sizes of Aluminum meters for petroleum products. Use the DISPLAY Nylon meters for water or non-aggressive chemicals. APPROVALS ACCURACY: ± 1.5% OF READING CE NEMA FM (on models A100, A200 and N100) (£x) ATEX **IP44 Select Your Fitting Size:** Aluminum Nylon Low Flow l inch 2 inch Low Flow l inch



### Features and Benefits:

- Unique package combines Turbine and LCD into a self-contained, compact, economical meter.
- Local Display Computer features: 2 Totals (1 Resettable, 1 Cumulative); Factory Calibration in gallons and litres; 2 User Calibrations and Flowrate.
- Output capabilities available to communicate with process control equipment.
- Lightweight, compact design allows for easy installation.
- Powered by Lithium batteries for long life.

	ALUMINUM		NYLON		
	A025 (Low Flow)	A100 (1 inch)	A200 (2 inch)	N025 (Low Flow)	N100 (1 inch)
Design Type:	Paddlewheel	Turbine	Turbine	Paddlewheel	Turbine
Housing Material:	Aluminum	Aluminum	Aluminum	Nylon	Nylon
Fitting Size:	1 inch	1 inch	2 inch	1 inch	1 inch
Fitting Type:	NPT, ISO or BSPP(female)	NPT, ISO or BSPP(female)	NPT or ISO (female)	NPT or ISO (female)	NPT or ISO (female)
Flow Range (GPM):	0.3 - 3 GPM	3 - 50 GPM	30 - 300 GPM	0.3 - 3 GPM	3 - 50 GPM
Flow Range (LPM):	1 - 11 LPM	11 - 190 LPM	114 - 1,135 LPM	1 - 11 LPM	11 - 190 LPM
Accuracy:	N/A*	± 1.5% of reading	± 1.5% of reading	N/A*	± 1.5% of reading
Repeatability:	±1%	± 0.2%	± 0.2%	± 1%	± 0.2%
Pressure Rating:	300 PSI / 21 BAR	300 PSI / 21 BAR	300 PSI / 21 BAR	150 PSI / 10.2 BAR	150 PSI / 10.2 BAR
Operating Temperature Range: with Computer:	-40°F to +250°F (-40°C to +121°C) +14°F to +140°F				
with computer.	(-10°C to +60°C)				
Wetted Material - Housing: Bearings: Shaft: Rotor:	Aluminum Ceramic Tungsten Carbide Nylon	Aluminum Ceramic Tungsten Carbide Nylon	Aluminum Ceramic Tungsten Carbide Nylon	Nylon Ceramic Tungsten Carbide Nylon	Nylon Ceramic Tungsten Carbide Nylon
Signal Generators: Rings:	Ferrite 316 Stainless Steel				
Typical K-Factor:	2200	730	72	2200	730
Frequency Range:	11 - 110 Hz @ 0.3 - 3 GPM	36.5 - 608.3 Hz @ 3 - 50 GPM	36 - 360 Hz @ 30 - 300 GPM	11 - 110 Hz @ 0.3 - 3 GPM	36.5 - 608.3 Hz @ 3 - 50 GPM
Recommended Strainer Size:	55 mesh	28 mesh	28 mesh	55 mesh	28 mesh
Shipping Weight:	1.35 lbs. (0.61 kg)	1.35 lbs. (0.61 kg)	3.0 lbs. (1.36 kg)	1.0 lbs. (0.5 kg)	1.0 lbs. (0.5 kg)
Local Display:	09 Computer (See page 58)				

SECTION 4: AI COMMERCIAL GRADE METERS

 $\star$  Accuracy can vary up to  $\pm$  5% depending on installation and fluid type. Field Calibration is recommended for best accuracy.

# Al Meter Modules

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



Standard Remote Kit Assembly Installed



Features and Benefits:

- Accommodates fluid temperatures from  $-40^{\circ}$ F to  $+250^{\circ}$ F ( $-40^{\circ}$ C to  $+121^{\circ}$ C).
- 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; it also requires a 09 Computer.

Do not use on Al 2" meter. Order 113275-1.

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	

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



FM Approved Remote Kit Assembly Installed



# Features and Benefits:

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

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

Use this module with GPI Industrial or Commercial Grade Electronic Digital Meters. 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 also provides the versatility of panel mounting of the LCD readout up to 100 ft. from the turbine housing.

This kit consists of a sensor module, a dustcover assembly and 10 ft. of cable; it also requires a 09 Computer.

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		

# Al Meter Modules

# 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.

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.

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	

# Al Meter Accessories

# 90° Display Adapter Kit (Part No. 125260-1)



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

# **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.

Used with your PC, it allows quick, convenient on-screen setting (and reading) of setup options and calibration data from many GPI Electronic Digital Meters (EDMs).



Water M

Fuel Me

GPI offers a variety of economy meters to meet specific applications. These meters are great for monitoring and indication. They provide lower accuracy than our other meters but are an economical choice in many applications. The economy meters are not field serviceable like the popular G2 Series Meters.

ELECTRONIC DISC METER

M50-D



Choose from one of the latest positive displacement meters available from GPI. These compact meters are perfect for metering engine oils or transmission fluids (maximum viscosity 1,000 cps). The LM50M Mechanical Meter is suitable for hazardous locations and requires no batteries.

Choose the LM50P when Pulse Out without Display meets your application. The LM50D model includes an easy-toread display. All meters are designed with oval rotors for optimum accuracy.

# Features and Benefits:

- Extremely accurate.  $\checkmark$
- Dependable performance.
- Reliable, trouble-free operation.
- Total and Flowrate.

M Series L	ube Mete	ers		
	LM50	P - SPECIFICATIONS		
	Construction:	Aluminum		
GPI	Wetted Components:	Acetal, Aluminum, Nitril and Steel		
LM50	Connections:	1/2 inch NPT or BSPT (Female)		
POLSE METER	K-Factor:	424 PPG / 112 PPL		
and the state in the second	Flow Range:	0.26 - 7.8 GPM (1 - 30 LPM) @ 5 - 1,000 cps		
	Accuracy:	± 0.5% of reading		
W State	Max. Working Pressure:	1,500 PSI / 103.5 BAR		
1	Operating Temperature:	+23°F to +131°F (-5°C to +55°C)		
NAME AND A DECK	Model Numbers:	LM50PB (Lube Meter 1/2" BSPT)		
ALL PLAN SPECIAL	T.MISO	LM50PN (Lube Meter 1/2" NPT)		
1 000	Construction:	Aluminum		
IMED S	Wetted Components:	Acetal, Aluminum, Nitril and Steel		
WIOU-D RISE DISP	Connections:	1/2 inch NPT or BSPT (Female)		
ALL DE LE DE	Flow Range:	0.26 - 7.8 GPM (1 - 30 LPM) @ 5 - 1,000 cps		
	Accuracy:	± 0.5% of reading		
	Max. Working Pressure:	1,500 PSI / 103.5 BAR		
MadalNa	Operating Temperature:	+23°F to +131°F (-5°C to +55°C)		
Model No. LM50M	Battery:	Two AAA Alkaline batteries		
	Display:	6 digit; Shows Batch, Reset Total, Non-Reset		
		Total and Rate of Flow		
ne latest positive	Display Units:	User selectable (gallons, litres, pints or quart		
available from GPI.	Model Numbers:	LM50DB (Lube Meter with Display 1/2" BSP		
s are perfect for		LM50DN (Lube Meter with Display 1/2" NPT)		
or transmission		M - SPECIFICATIONS		
osity 1,000 cps).	Construction:	Aluminum		
al Meter is suitable	Wetted Components:	Acetal, Aluminum, Nitril and Steel		
ns and requires no	Connections:	1/2 inch NPT or BSPT (Female)		
	Flow Range:	0.26 - 7.8 GPM (1 - 30 LPM) @ 5 - 1,000 cps		
ien Pulse Out	Accuracy:	± 1% of reading		
s your application.	Max. Working Pressure:	1,500 PSI / 103.5 BAR		
ludes an easy-to-	Operating Temperature:	+14°F to +131°F (-10°C to +55°C)		
ers are designed	Model Numbers:	LM50MNG (Mechanical Lube Meter 1/2" NPT		
otimum accuracy.		fitting. Calibrated in gallons.) LM50MNL (Mechanical Lube Meter 1/2" NPT		
· - <b>/</b>		fitting. Calibrated in litres.)		
d Benefits:		LM50MBL (Mechanical Lube Meter 1/2" BSP		
		fitting. Calibrated in litres.)		
urate.		LM50MBQ (Mechanical Lube Meter 1/2" BSP		

# **Economy Electronic Digital Meters**

# TM Series Water Meter ACCURACY: ±3.0% OF READING



### Features and Benefits:

- Economical turbine meter for use with water applications.
- ✓ Available in 1/2", 3/4", 1", 1-1/2" and 2" sizes.
- Durable construction and lightweight with gallon and litre measurement.
- Powered by Lithium batteries for approximately 9,000 hours and are easily replaced.

# 01N Series Water Meter ACCURACY: ± 5.0% OF READING



# Features and Benefits:

- Simple, small and sturdy Electronic Digital Water Meter with rugged nylon housing.
- ✓ Mount on the end of a hose or a pipe, in-line.
- Complete meter, including turbine assembly, microprocessor and LCD readout.
- Choice of gallon and litre measurement.
- Works well on any pump or gravity feed system with at least 3-30 GPM (10-100 LPM) flow range.

TM SERIES – SPECIFICATIONS		
Design Type:	Turbine	
Fitting Size:	1/2" 3/4" 1" 1-1/2" 2"	
Fitting Type:	Schedule 40 Soc or NPT (Female)	
Flow Range:		
1/2" (TM050)	1 - 10 GPM (3.8 - 38 LPM)	
3/4" (TM075)	2 - 20 GPM (7.6 - 76 LPM)	
1" (TM100)	5 - 50 GPM (19 - 190 LPM)	
1-1/2" (TM150)	10 - 100 GPM (38 - 380 LPM)	
2" (TM200)	20 - 200 GPM (76 - 760 LPM)	
Accuracy:	± 3.0% of reading	
Pressure Rating:	150 PSIG @ 73°F	
Operating Temperature:	+32°F to +140°F (0°C to +60°C)	
Wetted Material:		
Housing:	PVC	
Bearings:	Ceramic	
Shaft:	Tungsten Carbide	
Rotor:	PVDF	
Rings:	316 Stainless Steel	
Shipping Weight (approx.):	(See page 70 for meter dimensions)	
1/2" (TM050)	.80 lbs. (0.36 kg)	
3/4" (TM075)	.88 lbs. (0.39 kg)	
1" (TM100)	1.0 lbs. (0.45 kg)	
1-1/2" (TM150)	1.4 lbs. (0.63 kg)	
2" (TM200)	1.68 lbs. (0.76 kg)	
Display Features:	Local Display includes: Rate of Flow, Batch and	
	Cumulative Totals. Field Calibration available.	
Pulse Output:	Open Collector (NPN)	
	APPROVALS	
CE		

01N SERI	ES – SPECIFICATIONS
Design Type:	Turbine
Fitting Size:	1 inch
Fitting Type:	NPT or ISO (Female)
Flow Range:	3 - 30 GPM (10 - 100 LPM)
Accuracy:	± 5.0% of reading
Repeatability:	± .5%
Pressure Rating:	150 PSIG (10.2 BAR)
Operating Temperature:	+14°F to +131°F (-10°C to +55°C)
Wetted Material:	
Housing:	Nylon
Bearings:	Ceramic
Shaft:	Tungsten Carbide
Rotor:	Nylon
Signal Generators:	Ferrite
Rings:	316 Stainless Steel
Shipping Weight (approx.):	1.1 lbs. (0.5 kg) (See page 70 for meter dimensions)
Local Display:	Includes: 2 Totals (1 Cumulative, 1 Batch);
	Permanent factory calibration for water.
	APPROVALS
	CE
	• •

# **Economy Electronic Digital Meters**

# 01A Series Fuel Meter ACCURACY: ± 5.0% OF READING



### Features and Benefits:

- Lightweight, accurate, and reliable turbine meter with rugged aluminum housing and sealed electronic circuitry.
- Powered by two AAA batteries that are easy to replace.
- Factory calibrated for petroleum fuel with a choice of gallon and litre measurement.
- Works well on any pump or gravity feed system with at least 3-30 GPM (10-100 LPM) flow range.

# FM-300H/R Chemical Meter ACCURACY: ± 2.0% OF READING



### Features and Benefits:

- Simple, small and sturdy Electronic Digital Disc Meter with rugged PBT housing.
- ✓ Mount on the end of a hose or a pipe, in-line.
- Complete meter, including disc assembly, microprocessor and LCD readout.
- Choice of gallon and litre measurement.
- ✓ Factory calibrated for thin and medium fluids. Field calibrate for more viscous fluids.

01A SERIES – SPECIFICATIONS	
Design Type:	Turbine
Fitting Size:	1 inch
Fitting Type:	NPT or ISO or BSPP (Female)
Flow Range:	3 - 30 GPM (10 - 100 LPM)
Accuracy:	± 5.0% of reading
Repeatability:	±.5%
Pressure Rating:	300 PSIG (21 BAR)
Operating Temperature:	+14°F to +130°F (-10°C to +54°C)
Wetted Material:	
Housing:	Aluminum
Bearings:	Ceramic
Shaft:	Tungsten Carbide
Rotor:	Nylon
Signal Generators:	Ferrite
Rings:	316 Stainless Steel
Shipping Weight (approx.):	2 lbs. (0.9 kg) (See page 70 for meter dimensions)
Local Display:	Includes: 2 Totals (1 Cumulative, 1 Batch);
	Permanent factory calibration for gasoline,
	diesel fuel or kerosene.
APPROVALS	

# CE

FM-300H/R - SPECIFICATIONS	
Design Type:	Nutating Disc with Electronic Display
Fitting Size:	1 inch
Fitting Type:	Inlet: NPT (Female) Outlet: NPT (Male)
Flow Range:	2 - 20 GPM (7 - 75 LPM)
Accuracy:	± 2.0% of reading
Pressure Rating:	50 PSIG (3.4 BAR)
Operating Temperature:	+15°F to +130°F (-9°C to +54°C)
Wetted Material:	
Housing:	PBT Polyester
Fluid Chamber:	PBT Polyester
Signal Generator Kit:	PBT Polyester / Ferrite
Seals:	Fluorocarbon
Clip:	316 Stainless Steel
Shipping Weight (approx.):	3 lbs. (1.4 kg)
Display Options:	Local Display includes: Rate of Flow, Batch and Cumulative Totals. Factory and Field Calibration.
	APPROVALS
	AFFROVALS
	(F

# Electronics Choices

GPI Electronics are available with a variety of features. Choosing the best combination of meter and electronics is easy using the GPI System. The Meter Application Sheet in the back of the catalog can serve as a worksheet to guide you in selecting the right GPI product for your application. Your GPI Sales Representative can assist you with this process.

# **Electronics Choices**

# 1) What meter do I need in this application?

Meter choice is determined by: Level of accuracy required, flowrate, line size, viscosity, fitting type, pressure rating, temperature, chemical compatibility and etc. The general categories below provide some basic information about meter types.

G Series Meters	G2 Series Meters	GM Series Meters	Al Commerical Grade Meters	Economy Meters
SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5
	A STATE OF THE STA			
Precision Meters.	Wide range of materials and sizes.	Positive Displacement Meter technology in a variety of materials and sizes.	Aluminum or Nylon Meters with display in a self-contained unit.	Water, fuel, lube and chemical meters with basic features.



# 2) What type of output do I need from my electronics?

Output can be simple totals, rate of flow and various types of signal output. GPI Electronics can be mounted to the meter or to a remote location and come with or without display.

Local	GA Series	GG Series	GX Series	SC Series	Wireless
Display	Electronics	Electronics	Electronics	Electronics	System
09 Electronics	4-20 mA Output	Pulse Output	4-20 mA Output	Scaled Pulse	Transmits Signal
	Without Display	With Display	With Display	Output	To Receiver Unit

# 3VC

# 3) How do I place an order?

Are you buying your GPI Electronics as part of a **system** in combination with a meter or **stand alone** (as a replacement for an existing electronics)? Model numbers will vary depending on how the electronics unit is ordered.

> Contact GPI Customer Support at: 888-996-3837 or 316-686-7361 for assistance.

# CTION 6: ELECTRONICS CHOICES

# G2 Wireless Transmitter & Receiver





GPI's new, battery-powered Wireless Transmitter is designed to transmit flowrate from a G2 Series meter to the Receiver. This system includes both the Transmitter and Receiver. The Wireless Transmitter is perfect in many plant applications. Both Transmitter and Receiver are color coded making installation easy for optimum signal transmissions.

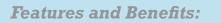
WIRELESS ASSEMBLY SPECIFICATIONS		
Kit Includes:	Transmitter to fit to G2 Meter	
	Receiver with 25 feet of cable	
	Transmitter Battery Pack	
Transmission Frequency:	903.37 MHz - 921.37 MHz	
Power Supply:		
Transmitter:	Battery Pack (2 each) 1/2 AA Lithium	
	(3.6V each - 7.2V total)	
Receiver:	5 VDC - 35 VDC	
Signal:		
Transmitter:	Delayed Burst Transmission Method	
Receiver:	Open Collector (Current Sinking)	
	Max. OFF Voltage: 60V	
	Max. ON Voltage: 200 mA	
Transmission Distance:	300 ft. Maximum; Line of Sight	
Available Channels:	Eight	
Transmission Time Intervals:	Four (1 sec., 2 sec., 5 sec., 10 sec.)	
Enclosure:	NEMA 4	
APPROVALS		



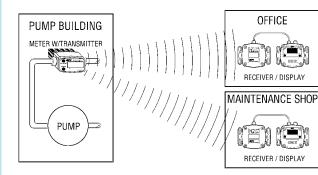
Industry Canada Approval Class B digital device, part 15 of FCC Rules

APPROVED FOR USE IN THE U.S. AND CANADA ONLY.

# SAMPLE APPLICATION



- Simple to use.
- ✓ Affordable wireless system.
- Battery powered.
- Retro fits GPI meters.



# **Local Display** (Available for Turbine or Oval Gear Meters)

Choose the 09 Computer for local display on G2 Series Turbine Meters. Commonly used features are preprogrammed in the Standard 09 Computer Display. End-users can enable additional features by using a password available from the factory or on the GPI web site. The 09 configuration provides a very high degree of customization, matching customers' exact needs.



Display shown here on Oval Gear Meter

GPI programmed the new 09 Computer with many new features in addition to the standard factory configuration. Disabling "unnecessary" features makes day-to-day operations simple.

### Features and Benefits:

- 2 Totals (1 Resettable, 1 Cumulative).
- Flowrate display updates every 5 seconds, readout is in units/minute.
- Factory Calibration in gallons and litres.
- 2 user-defined Field Calibrations.
- Small, compact and totally self contained with an internal power supply.
- Field replaceable Lithium batteries for long life.
- Automatic on and off.

<b>09 COMPUTER – SPECIFICATIONS</b>		
Std. Factory Configuration:	2 Totals (1 Resettable, 1 Cumulative); Factory	
	Calibration in gallons and litres; 2 User	
	Calibrations and Flowrate	
Computer Electronics:	09 Computer fits all A1 and G2 meter sizes and	
	construction. Std. Display fits GM Series Meters.	
Totalizing Registers:	0 to 3 available	
K-Factor Limits:	Min: .01 pulses/unit Max: 999,999 pulses/unit	
Field Calibration:	Field calibrate by user. Standard Method:	
	Dispense/Display. Six adjustable digits. Can be	
	reconfigured to K-factor entry.	
Readout Totals:	LCD with floating decimal	
	Minimum Display = 0.01 units	
	Maximum Display = 999,999 units (6 digits)	
Input Pulse Rate:	Minimum (Pulse-in Input) = DC (0 Hz)	
	Minimum (Coil Input) = Approximately 10 Hz	
	Maximum = Approximately 1,000 Hz	
Turbine Display:		
Internal Power Supply:	2 Lithium batteries at 3 volts each	
Minimum Battery Life:	9,000 hours	
Optional Power Supply:	7 to 30 VDC	
Oval Gear Display:		
Internal Power Supply:	9-volt battery	
Optional Power Supply:	10 to 18 VDC	
Operating Temperature:	+14°F to +140°F (-10°C to +60°C)	
Storage Temperature:	-40°F to +158°F (-40°C to +70°C)	
	APPROVALS	
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Using a password-protected configuration process can enable the additional features. GPI Customer Service can provide the password and instructions to unlock and reset configuration settings. This information is also available on the GPI web site. User configuration features include:

Totalizers / Modes Enabled (Cumulative Total, Batch 1 Total, Batch 2 Total, Flowrate Mode)

User can change Flowrate Update Interval

Flowrate Timebase (Minute, Hour, Day)

Factory Calibration Curve Enabled in GAL and LTR

Field Calibration Curve B and/or C Enabled

Dispense/Display or K-Factor Entry Calibration

Maximum Resolution for Field Calibration (0, 1 or 2 Decimals)

# GG500/GG510/5 Series Electronic Choice

# **Display With Pulse Output**



GG510 Local Mount

GG500 Remote Mount



# SECTION 6: ELECTRONICS CHOICES

### ACCURACY: ± 0.1% OFREADING

The GG500 is a remote mount Pulse-Out Transmitter with battery powered display. Choose the GG510 when a local mount is needed.

# Features and Benefits:

- Provides communication with process control equipment.
- Works with G Series, G2 Turbine Meters and GM Oval Gear Meters.
- Industry Standard Output: Unscaled Pulse.
- Easily mounted on pipe or wall.

GG500/GG510 - SPECIFICATIONS		
Accuracy:	± 0.1% of reading	
Output Options:		
Primary Output:	Open Collector (NPN)	
Pulse-Out:		
Max. "OFF" Voltage:	60 V	
Max. "ON" Current:	200 mA	
Max. "ON" Voltage Drop:	< 0.5 V @ 200 mA	
Electrical:		
Strain Relief:	Hubble PG7	
Strain Relief Thread:	Female 1/2-20 UNF-2B	
Cable:	Remote: Belden 9363 (500 Series only)	
	Local: No cable provided	
Cable Length:	20 ft. (6 m) provided (500 Series only)	
Power Supply:	9-volt battery or externally powered	
Voltage Supply (Min.):	7 VDC	
Voltage Supply (Max.):	30 VDC	
Input Options:	Hall Effect, Reed Switch, Open Collector or	
	Low Level Sine Wave	
Remote Mounting:	Pipe or wall	
Operating Temperature:	+14°F to +140°F (-10°C to +60°C)	
Frequency Input:		
Low Level Coil (LLC):	0 - 1000 Hz	
High Level Low Freq.:	0 - 150 Hz	
High Level High Freq.:	0 - 1000 Hz	
Enclosure Rating:	NEMA 4X / IP55	
Shipping Weight:	Remote: 2.0 lbs. (.90 kg)	
	Local: 1.0 lbs. (.45 kg)	
Calibrateable:	K-factor Entry	
	APPROVALS	
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# GX500/GX510/6 Series Electronic Choice

### **Display With 4-20 mA Output**



GX510 Local Mount



### ACCURACY: ± 0.1% OF READING

The GX500 is a remote mount 4-20 mA Output Transmitter with display. Choose the GX510 when a local mount is needed.

# Features and Benefits:

- Provides communication with process control equipment.
- Works with G Series, G2 Turbine Meters and GM Oval Gear Meters.
- ✓ Now available with Lockout feature.
- Microprocessor-based electronics have extremely low power requirements.
- Easy to set 4-20 mA endpoints under actual flow conditions.
- A signal conditioner with industry standard current loop output.
- Adjustable sampling time.
- Easily mounted on pipe or wall.
- Loop powered.

Output Options:	
Primary Output:	Loop (4-20 mA or 0-20 mA)
Minimum:	1.5 mA
Maximum:	25 mA
Auxiliary Outputs 0-5 V:	Single Ended
Minimum:	0.1 V
Maximum:	4.9 V
Pulse-Out:	
Max. "OFF" Voltage:	60 V
Max. "ON" Current:	200 mA
Max. "ON" Voltage Drop:	< 0.5 V @ 200 mA
Electrical:	
Strain Relief:	Hubble PG7
Strain Relief Thread:	Female 1/2-20 UNF-2B
Cable:	Remote: Belden 9363 (500 Series only)
	Local: No cable provided
Cable Length:	20 ft. (6 m) provided (500 Series only)
Power Supply:	2-wire, loop powered
Voltage Supply (Min.):	8.5 VDC
Voltage Supply (Max.):	35 VDC
Input Options:	Hall Effect, Reed Switch, Open Collector or
	Low Level Sine Wave
Remote Mounting:	Pipe or wall
Operating Temperature:	+32°F to +140°F (0°C to +60°C)
Frequency Input:	
Low Level Coil (LLC):	0.25 - 1000 Hz
High Level Low Freq.:	0.25 - 150 Hz
High Level High Freq.:	0.25 - 1000 Hz
Optically Isolated HLLF:	w/2500 V optical isolation
Optically Isolated HLHF:	w/2500 V optical isolation
Enclosure Rating:	NEMA 4X / IP55
Shipping Weight:	Remote: 2.0 lbs. (.90 kg)Local: 1.1 lbs. (.5 kg)
Calibrateable:	K-factor Entry
	APPROVALS

GX500/GX510 - SPECIFICATIONS

# CE



# GA500/GA510/7 Series Electronic Choice

# 4-20 mA Output



GA510 Local Mount

GA500 Remote Mount



### ACCURACY: ± 0.1% OF READING

The GA500 is a remote mount 4-20 mA Output Transmitter without display. Choose the GA510 when a local mount is needed.

# Features and Benefits:

- Provides communication with process control equipment.
- Works with G Series, G2 Turbine Meters and GM Oval Gear Meters.
- Now available with Lockout feature.
- Microprocessor-based electronics have extremely low power requirements.
- Easy to set 4-20 mA endpoints under actual flow conditions.
- A signal conditioner with industry standard current loop output.
- ✓ Adjustable sampling time.
- Easily mounted on pipe or wall.
- ✓ Loop powered.

GA500/GA510 - SPECIFICATIONS		
Output Options:		
Primary Output:	Loop (4-20 mA or 0-20 mA)	
Minimum:	1.5 mA	
Maximum:	25 mA	
Auxiliary Outputs 0-5 V:	Single Ended	
Minimum:	0.1 V	
Maximum:	4.9 V	
Pulse-Out:		
Max. "OFF" Voltage:	60 V	
Max. "ON" Current:	200 mA	
Max. "ON" Voltage Drop:	< 0.5 V @ 200 mA	
Electrical:		
Strain Relief:	Hubble PG7	
Strain Relief Thread:	Female 1/2-20 UNF-2B	
Cable:	Remote: Belden 9363 (500 Series only)	
	Local: No cable provided	
Cable Length:	20 ft. (6 m) provided (500 Series only)	
Power Supply:	2-wire, loop powered	
Voltage Supply (Min.):	8.5 VDC	
Voltage Supply (Max.):	35 VDC	
Input Options:	Hall Effect, Reed Switch, Open Collector or	
	Low Level Sine Wave	
Mounting:	Pipe or wall	
Operating Temperature:	+32°F to +140°F (0°C to +60°C)	
Frequency Input:		
Low Level Coil (LLC):	0.25 - 1000 Hz	
High Level Low Freq.:	0.25 - 150 Hz	
High Level High Freq.:	0.25 - 1000 Hz	
Optically Isolated HLLF:	w/2500 V optical isolation	
Optically Isolated HLHF:	w/2500 V optical isolation	
Enclosure Rating:	NEMA 4X / IP55	
Shipping Weight:	Remote: 2.0 lbs. (.90 kg)	
	Local: 1.1 lbs. (.5 kg)	
	APPROVALS	
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# SC500/SC510/8 Series Electronic Choice



SC510 Local Mount

SC500 Remote Mount

# ACCURACY: ± 0.1% OF READING

The GPI Scaled Pulse Module is a switchprogrammable multi-stage counter/divider with multiple inputs. The module provides selectable K-factor to convert input frequency to scaled pulse output. The SC500 connects via a 20 foot input cable. The SC510 connects directly to the 1 inch MNPT conduit connector.

# Features and Benefits:

- Converts input frequency to scaled pulse output.
- Provides communication with process control equipment.
- Works with G Series, G2 and A1 Turbine Meters and Oval Gear Meters.
- Remote model mounts on pipe or wall.

SC500/SC510 - SPECIFICATIONS				
Power Source:	DC powered 5 to 30 VDC			
Input Signal:	Hall Effect, Reed Switch or Open Collector (NPN) or Sine Wave			
Output Signal:	Open Collector (NPN)			
Frequency Range:	Coil, HF = 0-1500 Hz; LF = 0-150 Hz			
<b>Operating Temperature:</b>	-40°F to +185°F (-40°C to +85°C)			
Cable:	<i>Remote:</i> 20 ft., 3-conductor, tinned drain wire, 22 AWG, PVC jacket .212 dia. Ref. Belden 9363. <i>Local:</i> No cable provided			
Mechanical Connections:	<i>Remote:</i> Wall or pipe mountable with standard U-bolts. <i>Local:</i> Unit is mounted to meter body, 1" NPT.			
Electrical Connections:	<i>Remote:</i> Two strain relief ports <i>Local:</i> One strain relief port; one threaded plug			
APPROVALS				

CE



**Displays & Output Instruments** 

# **GRT** Series Controller

# GREAT CHOICE FOR NET USE

The GRT is a 6-digit Totalizer/Ratemeter with two-level, 5-digit preset alarm control of Total or Rate. Inputs A & B have separate scaling K-factors. The totalizer can be programmed for "A" subtract "B", "A" add "B" or A & B as separate totalizers, with display and control of the "net" total and rate of "A". If only one input is required, the unit will display the total and rate from that one channel. The GRT can accept up to 10,000 pulses per second. It has a 5-digit floating decimal scale factor allowing total readout in true engineering units and rate per second, minute or hour.

Input "A" simultaneously drives a ratemeter which can be programmed to display the basic frequency (rate per second) or factored to show rate per minute or rate per hour. Simply push the "VIEW" button to see either total or rate without losing a count. Two separate 5 A relay contacts can be set to operate at either rate or total presets in a latch or auto-recycle mode with output timing from 0.1 to 99.9 seconds.

Two control outputs can be assigned to either the totalizer or ratemeter and can automatically recycle at the batch or stay latched until reset.

When two inputs are received (A & B), the unit can either add or subtract the two inputs or display the two inputs as separate totalizers.

### NEW ENCLOSURES FOR GRT SERIES CONTROLLER



GRT shown here in enclosure.

EN4X-2: Enclosure has two pre-drilled holes (0.875 in.) EN4X: Enclosure has no factory drilled holes



# Features and Benefits:

- ✓ Separate scaling factors for A & B inputs.
- ✓ Separate add∕subtract simultaneous inputs.
- 🗸 Two Relays.
- 110 or 220 AC power or 12-15 VDC.

	GRT - SPECIFICATIONS			
Display:	6-digit, 0.55" High LED			
Input Signal:	Hall Effect, Reed Switch or Open Collector (NPN)			
Output Power:	(AC powered units only) +12 VDC @ 50 mA			
Memory:	EEPROM stores data for 10 years if power is lost.			
Outputs:	Two; N.O. Relays: 5 amps 120/240 VAC or 28 VDC. 4-20 mA or 0-20 mA			
K-Factor:	5-digit K-Factor dividers from 0.0001 - 99999			
Presets:	Two control outputs; 0.1 to 99.9 sec. or latch (0 sec)			
Temperature:	Operating: +32°F to +130°F (0°C to +54°C)			
Securing Lockout:	User selected 5-digit code			
Front Panel:	NEMA 4X / IP65			
Model Numbers:	See chart below			

APPROVALS

# CE

GRT MODEL NUMBERING SYSTEM

GRT SERIES	<u>GRT 110</u>
VOLTAGE 110 Volt 220 Volt	110 _ 220
OPTIONS Open Collector Input (leave blank) Open Collector Input / 4-20 mA Output / Open Collector Input / Dual Rate Magnetic Input Magnetic Input / 4-20 mA Output / Dual I Magnetic Input / Dual Rate	D M

# **GBT Series Deluxe Batch Controller**

Featuring 8 digits of bright, .55 inch, alphanumeric display, the GBT can accept up to 20,000 pulses per second of digital count. The standard unit has two separate, 8-digit floating decimal, "K" factors to convert the inputs to meaningful total and rate data. The user, with the push of a button, can toggle back and forth to view the total of the batch, the rate of flow or the grand total of flow.

The GBT may be thought of as two separate counters and a ratemeter. The "batching" counter counts to prewarn and preset numbers entered by the user and enables separate control outputs. The "totalizing" counter gives a cumulative reading or grand total.

Finally, the ratemeter counts the number of pulses per second and, with its scaling feature, can provide gallons per minute or any other rate measurement without the totalizer losing counts. At any time, the user may view the total, the grand total or the rate while never interrupting the counting process.

Setup is done through the front panel and the menu driven software in the unit. Start-Stop control can be activated via the front panel buttons or remote inputs.

The unit operates from either 110 VAC / 12 to 27 VDC or optional 220 VAC / 12 to 27 VDC. If AC power is used, two built-in regulated 12 VDC @ 100 mA power supplies are offered. They can be connected to provide +12 VDC and -12 VDC or +24 VDC to drive external devices. CMOS Logic is used to provide high noise immunity and low power consumption with EEPROM to hold data a minimum of 10 years if power is interrupted.



### Features and Benefits:

Two setpoints for two-stage valve control.

- ✓ Scaled pulse output NPN.
- 110 or 220 AC power or 12-27 VDC.

	GBT – SPECIFICATIONS
Display:	Lighted 8-digit, 0.55" High, 15 segment, red-orange LED
Input Signal:	Hall Effect, Reed Switch or Open Collector (NPN)
Output Power:	(AC powered units only) +12 VDC @ 100 mA
Memory:	EEPROM stores data for 10 years if power is lost.
Control Outputs:	Two.; SPDT Relays: 10 amps 120/240 VAC or 28 VDC.
K-Factor:	8-digit K-Factor dividers from 0.0001 - 99999999
Temperature:	Operating: +32°F to +130°F (0°C to +54°C)
Securing Lockout:	User selected 4-digit code
Front Panel:	NEMA 4X / IP65
Models:	GBT110 or GBT220

NOTE: Does not accept Sine Wave pulse.

APPROVALS

CE

# **GBM Series Mini Batcher**



This miniature batcher is great for basic batching functions. The display shows Batch, Rate and Grand Total. The Start and Stop buttons make batching simple.

This is a great choice for daily batching of the same amount of product every time. With just a push of a button, this controller will open your solenoid valve, count the total volume being dispensed and then close your solenoid valve at a preprogrammed amount.

This unit operates from either an Open Collector or Magnetic input.

# Features and Benefits:

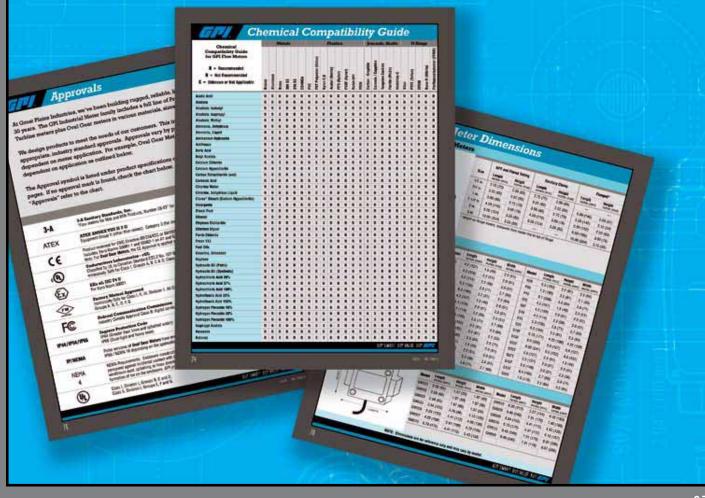
- Works with GPI Turbine and Oval Gear Meters that provide pulse.
- ✓ Available in both 110- and 220-volt models.
- ✓ The 6-digit LED shows both Batch and Grand Totals on an easy-to-read screen.
- Prewarn and Preset Relays for control (2 stage batching process).
- ✓ 5 digit scaling factor.
- ✓ Pulse Input 10 kHz maximum.
- Security lockout.
- ✓ Panel Mount NEMA 4X / IP65 front panel.

	GBM - SPECIFICATIONS		
Display:	6-digit, 0.55" High LED		
Input Signal:	Hall Effect, Reed Switch or Open Collector (NPN)		
Output Power:	(AC powered units only) +12 VDC @ 100 mA		
Memory:	EEPROM stores data for 10 years if power is lost.		
<b>Control Outputs:</b>	Two.; SPDT Relays: 10 amps 120/240 VAC or 28 VDC.		
K-Factor:	8-digit K-Factor dividers from 0.0001 - 99999999		
Temperature:	Operating: +32°F to +130°F (0°C to +54°C)		
Securing Lockout:	User selected 4-digit code		
Front Panel:	NEMA 4X / IP65		
Models:	GBM110, GBM110-M, GBM220 and GBM220-M		
NOTE: Does not accept Sine Wave pulse.			

APPROVALS

# **Reference Materials**

This section includes general reference materials including Meter Dimensions and Chemical Compatibility Charts. The Worksheet in the back of the catalog can be used to help select the best GPI Meter for your application. Feel free to contact GPI for assistance when determining the correct Meter and Electronics.



Liquid Viscosities					
Chart of Approximate Viscosities of Common Liquids	Viscosity in Centipoise @ 70°F	S S U Approximate			
Sulfuric Acid	0.2				
Methyl Ethyl Ketone	0.4				
Water	1				
Milk	3				
Oil – Crude	15	80			
Ethylene Glycol	16	80			
Oil – Auto SAE 10	65	310			
Oil – Corn	72	350			
Oil – Auto SAE 20	125	585			
Oil – Auto SAE 30	200	980			
Varnish - Spar	420	2,050			
Oil – Auto SAE 60	1,000	4,600			
Honey	3,000	14,500			
Ink	45,000				
Vaseline Petroleum Jelly	64,000				
Corn Syrup	110,000				

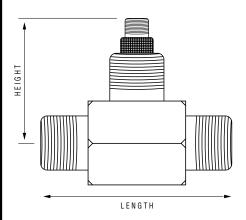
# **Component Materials**

GPI offers Component Materials to assist with chemical compatibility. In some cases, trade names may be more common than the generic name. The cross reference chart below provides the generic material name and the corresponding trade name.

Generic Material Name	Trade Name
Acetal	Celcon or Delrin
Buna-N, NBR or Nitrile	Chemivic or Krynac
EPDM	Epcar
FKM or fluorocarbon	Fluorel or Viton
Nylon or polyamide	Zytel
PBT polyester	Valox
PEEK	Victrex
Perfluoroelastomer	Kalrez
Perfluoroelastomer	Chemraz
PET polyester	Rynite
Polyester film	Mylar
PPS	Ryton
PTFE	Teflon
PVDF	Kynar

# **Meter Dimensions**

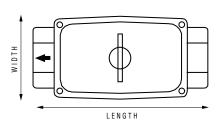
# **G** Series Precision Meters

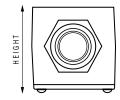


	NPT and Flared Tubing		Sanitary	r Clamp	Flanged*	
Size	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)
1/2 in.	2.75 (70)	2.56 (65)	2.75 (70)	2.56 (65)	—	_
3/4 in.	3.25 (82)	2.62 (66)	3.25 (82)	2.62 (66)	5.50 (140)	2.00 (51)
1 in.	3.56 (90)	2.75 (70)	3.56 (90)	2.75 (70)	5.50 (140)	2.12 (54)
1-1/2 in.	4.59 (116)	3.00 (76)	4.59 (116)	3.00 (76)	6.00 (152)	2.50 (63)
2 in.	6.06 (154)	3.25 (82)	6.06 (154)	3.25 (82)	6.50 (165)	3.00 (76)
3 in.	10.00 (254)	3.50 (89)	—	_	10.00 (254)	3.75 (95)

\* Height on flange meters, measures from center line to top of flange.

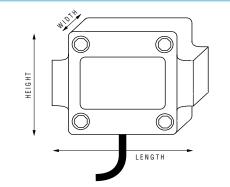
# **G2 Industrial Grade Meters**





Model	Length inches (mm)	Height inches (mm)	Width inches (mm)	Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
A05	4.2 (107)	1.8 (46)	2.0 (51)	H20	6.3 (160)	3.2 (81)	3.3 (84)
A07	4.3 (109)	2.0 (51)	2.0 (51)	P05	7.3 (185)	3.2 (81)	2.1 (53)
A10	4.5 (114)	2.2 (56)	2.0 (51)	P10	8.1 (206)	3.3 (84)	2.8 (71)
A15	5.3 (135)	2.8 (71)	2.7 (68)	S05	4.2 (107)	1.8 (46)	2.0 (51)
A20	6.3 (160)	3.2 (81)	3.3 (84)	S07	4.3 (109)	2.0 (51)	2.0 (51)
B05	4.2 (107)	1.8 (46)	2.0 (51)	S10	4.5 (114)	2.2 (56)	2.0 (51)
B07	4.3 (109)	2.0 (51)	2.0 (51)	S15	5.3 (135)	2.8 (71)	2.7 (68)
B10	4.5 (114)	2.2 (56)	2.0 (51)	S20	6.3 (160)	3.2 (81)	3.3 (84)
B15	5.3 (135)	2.8 (71)	2.7 (68)	S10F	6.75 (171)	4.25 (108)	4.25 (108)
B20	6.3 (160)	3.2 (81)	3.3 (84)	S15F	8.0 (203)	5.0 (127)	5.0 (127)
C05	7.3 (185)	3.2 (81)	2.1 (53)	S20F	9.50 (241)	6.0 (152)	6.0 (152)
C10	8.1 (206)	3.3 (84)	2.8 (71)	S05T	5.0 (127)	2.0 (51)	1.8 (46)
H05	4.2 (107)	1.8 (46)	2.0 (51)	S07T	5.0 (127)	2.0 (51)	2.0 (51)
H07	4.3 (109)	2.0 (51)	2.0 (51)	S10T	5.5 (140)	2.0 (51)	2.2 (56)
H10	4.5 (114)	2.2 (56)	2.0 (51)	S15T	6.5 (165)	2.7 (68)	2.8 (71)
H15	5.3 (135)	2.8 (71)	2.7 (68)	S20T	7.0 (178)	3.3 (84)	3.2 (81)

# **GM** Series Oval Gear Meters

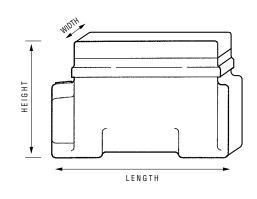


Model	Length inches (mm)	Height inches (mm)	Width inches (mm)	Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
GM001	2.58 (65)	1.97 (50)	1.97 (50)	GM015	8.35 (212)	5.67 (144)	6.42 (163)
GM002	2.58 (65)	1.97 (50)	1.97 (50)	GM020	9.45 (240)	7.01 (178)	7.40 (188)
GM003	2.58 (65)	1.97 (50)	1.97 (50)	GM505	3.94 (100)	4.41 (112)	4.92 (125)
GM005	3.94 (100)	3.78 (96)	4.13 (105)	GM510	6.70 (170)	4.41 (112)	6.18 (157)
GM006	5.24 (133)	4.41 (112)	4.96 (126)	GM515	9.45 (240)	7.01 (178)	8.07 (205)
GM007	4.25 (108)	3.94 (100)	4.72 (120)	GM520	9.45 (240)	7.01 (178)	8.07 (205)
GM010	6.70 (170)	4.41 (112)	5.43 (138)				

NOTE: Dimensions are for reference only and may vary by model.

# **Meter Dimensions**

# **Al Meters**



Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
A025	4.0 (102)	2.5 (63)	2.0 (51)
A100	4.0 (102)	2.5 (63)	2.0 (51)
A200	6.0 (152)	4.5 (114)	3.0 (76)
N025	4.0 (102)	2.5 (63)	2.0 (51)
N100	4.0 (102)	2.5 (63)	2.0 (51)

# **Economy Meters**



 
 Model
 Length inches (mm)
 Height inches (mm)
 Width inches (mm)

 01A
 4.0 (102)
 2.5 (63)
 2.0 (51)

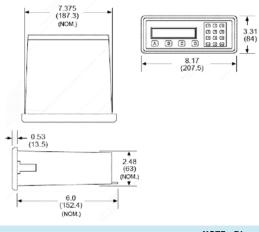
 01N
 4.0 (102)
 2.5 (63)
 2.0 (51)

HEIGHT	
A A A A A A A A A A A A A A A A A A A	WIDTH

### Length\* inches (mm) Model Height Width inches (mm) inches (mm) TM050 4.3 (109) 2.5 (63) 2.0 (51) TM075 5.3 (135) 2.7 (68) 2.0 (51) TM100 6.0 (152) 3.0 (76) 2.0 (51) TM150 7.0 (178) 3.6 (91) 2.3 (58) TM200 7.5 (190) 4.1 (104) 2.8 (71)

\* Length guidelines are estimates; actual length can vary up to  $\pm 1/2$ ".

# **GBM & GBT Controllers**

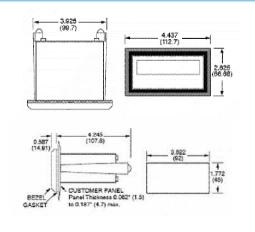


Model	Depth	Height	Width
	inches (mm)	inches (mm)	inches (mm)
GBM or GBT	6.53 (165)	3.31 (84)	8.17 (207)

NOTE: Dimensions are for reference only and may vary by model.

# **Meter Dimensions**

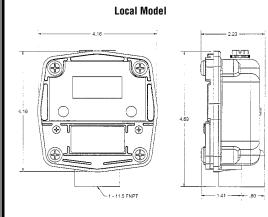
# **GRT** Series Controller



Model	Depth	Height	Width						
	inches (mm)	inches (mm)	inches (mm)						
GRT	4.8 (122)	2.8 (71)	4.4 (112)						

# Electronics Choice - Local & Remote (Dimensions can vary by model.)

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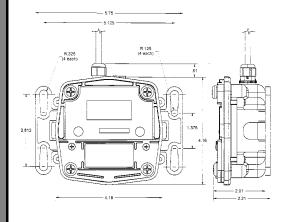


inches (mm)	inches (mm)	inches (mm)
2.23 (57)	4.69 (119)	4.16 (106)

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**Remote Model** 



<b>Depth*</b>	Height †	Width*
inches (mm)	inches (mm)	inches (mm)
2.21 (56)	4.67 (119)	5.75 (146)

Includes Mounting Bracket Includes Strain Relief \*

t

NOTE: Dimensions are for reference only and may vary by model.

# **Y Strainers**

Oval Gear Meters work best with clean fluid, free of debris. GPI carries Y Strainers to fit most models of Oval Gear Meters. These strainers range from 1/4 in. to 2 in. models. All sizes come complete with blow-off and plug.



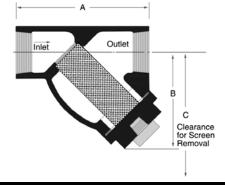
# Select Your Strainer Size: 1/4 inch 1/2 inch 3/4 inch 1 inch

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



# Features and Benefits:

- Machined, tapered seat ensures a perfect fit for the removable, 316 Stainless Steel screen.
- All screens are 316 Stainless Steel.
- All sizes come complete with blow-off and plug. These can be replaced with ball valve for on-line blow-down of particulate.
- Rated for up to 1480 PSI at 100°F for water, oil or gas.
- Female NPT threads.



Y STRA	INERS – S	PECIFICATIONS
Blow-off Fitting:	1/4 inch:	1/4" NPT
	1/2 inch:	1/4" NPT
	3/4 inch:	1/4" NPT
	1 inch:	1/2" NPT
	1-1/4 inch:	1/2" NPT
	1-1/2 inch:	1/2" NPT
	2 inch:	1/2" NPT
Screen Standard:	1/4 inch:	200 mesh
	1/2 inch:	60 mesh
	3/4 inch:	60 mesh
	1 inch:	60 mesh
	1-1/4 inch:	60 mesh
	1-1/2 inch:	60 mesh
	2 inch:	60 mesh
Screen Opening (inch):	1/4 inch:	0.011"
	1/2 inch:	0.032"
	3/4 inch:	0.032"
	1 inch:	0.032"
	1-1/4 inch:	0.032"
	1-1/2 inch:	0.032"
	2 inch:	0.032"
Shipping Weight:	1/4 inch:	4 lbs.
	1/2 inch:	4 lbs.
	3/4 inch:	5 lbs.
	1 inch:	6 lbs.
	1-1/4 inch:	8 lbs.
	1-1/2 inch:	10 lbs.
	2 inch:	18 lbs.
PART N	UMBERS	& DIMENSIONS

PART NUMBERS & DIMENSIONS											
Part Number	Size	Α	В	C							
125700-01	1/4 inch:	3-1/4"	2-3/16"	3"							
125700-02	1/2 inch:	3-1/4"	2-3/16"	3"							
125700-03	3/4 inch:	3-5/8"	2-3/4"	3-1/4"							
125700-04	1 inch:	4-1/4"	3-3/16"	4-1/8"							
125700-05	1-1/4 inch:	5-1/4"	3-7/8"	5"							
125700-06	1-1/2 inch:	6-1/4"	4-3/4"	5-7/8"							
125700-07	2 inch:	7-5/8"	6"	8-1/8"							

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			Me	tals					]	Plas	stics	5			Joi	ırna	als,	Sha	fts		0-	Rin	gs	
Chemical Compatibility Guide for GPI Flowmeters								Valox)							te	nire	е			FKM/Fluorocarbon (Viton)				Perfluoroelastomer (FFKM)
$\mathbf{R}$ = Recommended								er ()		in)		÷			Graphite	apt	Irbid	(u)		carb	Ê		rile)	stor
N = Not Recommended		Ē				_		yest	9	Delr	(ton)	(yna	41			S / S	n Ca	ZuM)	y-C	Ioro	eflor		(Nit	oela
X = Unknown or Not Applicable	Bronze	Aluminum	Brass	304 SS	316 SS	CD4MCu	PVC	PBT Polyester (Valox)	Nylon 6,6	Acetal (Delrin)	PPS (Ryton)	PVDF (Kynar)	Rulon 641	PEEK	Carbon -	Ceramic / Sapphire	<b>Tungsten Carbide</b>	Ferrite (MnZn)	Hastelloy-C	FKM/FI	PTFE (Teflon)	EPDM	Buna-N (Nitrile)	Perfluo
Acetic Acid	N	R	N	N	R	R	N	X	N	N	R	N	R	R	R	R	N	X	R	R	R	R	N	R
Acetone	R	R	R	R	R	R	N	N	R	R	R	N	R	R	R	R	R	R	R	N	R	R	N	R
Alcohols: Isobutyl	R	R	X	R	R	R	R	X	X	R	X	X	R	R	R	R	R	X	R	R	R	R	R	R
Alcohols: Isopropyl	R	R	X	R	R	R	R	R	R	R	X	X	R	R	R	R	R	R	R	R	R	R	R	R
Alcohols: Methyl	R	R	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R
Ammonia, Anhydrous	N	R	N	R	R	R	R	X	X	N	R	R	R	R	X	R	R	X	R	N	R	R	R	R
Ammonia, Liquid	N	R	X	R	R	R	R	X	R	N	R	R	R	R	R	R	R	X	R	N	R	R	N	R
Ammonium Hydroxide	N	R	N	R	R	R	R	N	N	Ν	R	R	R	R	R	R	Ν	R	R	R	R	R	N	R
Antifreeze	R	R	X	X	R	X	R	X	X	N	X	X	X	R	X	R	R	R	X	R	X	R	R	R
Boric Acid	R	N	X	R	R	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R
Butyl Acetate	R	R	R	R	R	R	N	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R	N	R
Calcium Chloride	R	N	X	N	R	R	N	X	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Calcium Hypochlorite	N	N	X	N	R	R	R	X	X	N	R	R	R	R	R	R	N	R	R	R	R	R	N	R
Carbon Tetrachloride (wet)	R	N	R	R	R	R	X	X	X	R	R	R	R	X	R	R	X	X	R	X	R	N	N	R
Carbonic Acid	R	R	N	R	R	R	R	X	R	R	R	R	R	R	R	R	R	X	R	R	R	R	N	R
Chlorine Water	R	N	N	N	N	R	R	X	N	N	N	R	R	N	R	X	R	R	R	R	R	N	N	R
Chlorine, Anhydrous Liquid	N	N	N	N	N	N	N	X	X	R	N	R	R	N	R	N	X	N	N	R	R	R	N	R
Clorox® Bleach (Sodium Hypochlorite)	X	N	X	R	R	R	R	R	N	N	N	R	R	R	X	R	N	X	R	R	R	R	N	R
Detergents Discol	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R	R
Diesel Fuel	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R
Ethanol Ethulana Diablacida	R	R	R	R	R	R	N	X	R	R	X	X	R	R	R	R	R	X	R	R	R	R	N	R
Ethylene Dichloride	N	R	R	R	R	R	N	X	X	R	R	R	R	R	R	R	R	X	R	R	R	N	N	R
Ethylene Glycol	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Ferric Chloride Freon 113	N	N	N	N	N	R	R	X	N	N	R	R	R	R R	R	R	N	X	R R	R	R	R	R	R
	X	X	X	X	X	R	R	X	X	R	R	R	R		X	R	R	R		R	R	N	R	R
Fuel Oils (#1 and #2) Gasoline, Unleaded	R R	R R	R X	R R	R R	R R	R N	R R	R R	R R	R R	R R	R R	R R	R R	R R	R R	X R	R R	R R	R R	N N	R R	R R
Heptane	n R	n R	R	n R	n R	n R	N	n X	n X	n R	n R	n R	n R	n R	n R	n R	n R	n X	n R	n R	n R	N	n R	n R
Hydraulic Oil (Petro)	n R	n R	n R	n R	n R	n R	R	^ R	X	n R	n N	n R	n R	n R	n R	n R	n R	^ R	n R	n R	n R	N	n R	n R
Hydraulic Oil (Synthetic)	n R	n R	n R	n R	n R	n R	n R	n R	X	n X	X	n R	n R	n R	n R	n R	n R	n R	n R	n R	n R	R	n N	n R
Hydrochloric Acid 20%	N	N	n X	N	N	R	R	R	N	N	N	R	R	N	R	n N	N	R	R	R	R	N	X	R
Hydrochloric Acid 37%	N	N	X	N	N	R	R	X	N	N	N	R	R	R	R	N	N	R	R	R	R	R	^ R	R
Hydrochloric Acid 37 %	N	N	N	N	N	R	N	N	N	N	N	R	R	R	R	R	N	R	R	R	R	N	N	R
Hydrofluoric Acid 20%	R	N	X	N	N	R	R	R	N	N	R	R	R	N	X	N	N	R	R	R	R	N	N	R
Hydrofluoric Acid 100%	R	N	X	R	R	R	N	N	N	N	N	R	R	N	R	N	N	R	R	R	R	N	N	R
Hydrogen Peroxide 10%	R	R	X	R	R	R	R	R	N	N	R	R	R	R	N	R	N	R	R	R	R	R	N	R
Hydrogen Peroxide 30%	R	R	X	R	R	R	R	x	N	N	R	R	R	R	N	X	N	R	R	R	R	R	N	R
Hydrogen Peroxide 100%	R	R	N	R	R	R	R	x	N	N	N	R	R	R	N	X	N	R	R	R	R	N	N	R
Isopropyl Acetate	R	N	X	N	R	R	N	X	X	N	X	N	R	R	R	R	R	x	R	N	R	R	N	R
Kerosene	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R
Ketones	R	R	X	R	R	R	N	X	X	N	R	N	R	R	R	R	R	X	R	N	R	R	N	R
																DUI	SM	Añ I .	DUI	VAL	UE.	DUT	7	-2.6

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Chemical	Chaminal Metals				Plastics									Journals, Shafts						<b>O-Rings</b>				
Compatibility Guide for GPI Flowmeters								Valox)							te	nire	<u>a</u>			FKM/Fluorocarbon (Viton)				Perfluoroelastomer (FFKM)
<b>R</b> = Recommended								er (		ji)		Ĵ			aphi	appl	rbid	(L		carb	Ē		rile)	Istor
N = Not Recommended		Ę				_		lyest	6,6	Delr	/ton)	(yna	641		5	c / S	n Ca	(Mn	y-C	loro	efloi		(Nit	oels
X = Unknown or Not Applicable	Bronze	Aluminum	Brass	304 SS	316 SS	CD4MCu	PVC	PBT Polyester (Valox)	Nylon 6	Acetal (Delrin)	PPS (Ryton)	PVDF (Kynar)	Rulon 6	PEEK	Carbon - Graphite	Ceramic / Sapphire	<b>Tungsten Carbide</b>	Ferrite (MnZn)	Hastelloy-C	FKM/FII	PTFE (Teflon)	EPDM	Buna-N (Nitrile)	Perfluo
Lacquer Thinners	R	R	R	R	R	R	N	X	X	N	X	X	R	X	R	X	R	X	R	N	R	N	N	R
Lacquers	R	R	X	R	R	R	N	X	X	N	X	N	R	R	R	R	R	X	R	N	R	N	N	R
Lye: NaOH Sodium Hydroxide	N	N	N	R	R	N	R	X	X	N	R	N	R	R	X	R	R	X	N	R	R	R	R	R
Magnesium Hydroxide	R	N	N	R	R	R	R	X	R	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R
Methanol (Methyl Alcohol)	R	R	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R
Methyl Ethyl Ketone	R	R	R	R	R	R	N	R	R	N	R	N	R	R	R	R	X	R	R	N	R	R	N	R
Motor Oil	R	R	X	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	X	X	R	N	R	R
Nitrating Acid (> 15% H2SO4)	X	N	X	N	N	R	N	X	X	N	N	X	R	N	X	R	N	X	R	X	R	R	N	R
Nitric Acid (5-10%)	R	R	N	R	R	R	R	X	R	N	R	R	R	N	R	N	N	X	R	R	R	R	N	R
Nitric Acid (50%)	R	N	N	R	R	R	R	X	N	N	N	R	R	N	R	N	N	N	R	R	R	N	N	R
Nitric Acid (Concentrated)	R	N	N	R	R	R	R	R	N	N	N	R	R	N	N	N	N	N	R	R	R	N	N	R
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	R	N	R	R	R	R	R	X	R	N	R	R	R	R	R	R	R	X	R	R	R	N	R	R
Oils: Hydraulic Oil (Petro)	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R	R	X	R	R	R	N	R	R
Oils: Mineral	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R
Oils: Transformer	X	R	X	R	R	X	R	R	X	R	X	R	R	R	R	R	R	X	X	R	R	N	R	R
Phosphoric Acid (< 40%)	R	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	N	N	R	R	R	R	N	R
Phosphoric Acid (> 40%)	R	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	N	X	R	R	R	R	N	R
Potassium Chloride	R	N	N	R	R	R	R	R	R	R	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Potassium Hydroxide (Caustic Potash)	N	N	N	R	R	R	R	N	R	R	R	R	R	R	N	N	N	R	R	R	R	R	R	R
Potassium Hypochlorite	N	N	X	N	R	R	R	X	X	X	R	R	R	X	X	N	N	X	R	X	R	R	R	R
Propane (Liquefied)	R	R	R	R	R	R	R	X	R	R	X	R	R	R	R	R	R	X	R	R	R	N	R	R
Propylene Glycol	R	R	X	R	R	R	N	R	R	R	X	X	R	R	X	R	R	R	R	R	R	R	R	R
Salt Brine (NaCl Saturated)	R	R	X	R	R	R	R	X	X	X	R	R	R	R	R	X	N	X	R	R	R	R	R	R
Sea Water	R	R	N	N	N	R	R	R	X	R	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Soap Solutions	R	N	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Sodium Bicarbonate	R	N	N	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Sodium Chloride	R	N	N	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R	R	R
Sodium Hydroxide (20%)	R	N	R	R	R	R	R	X	R	R	R	R	R	R	R	R	N	X	R	N	R	R	R	R
Sodium Hydroxide (50%)	N	N	N	R	R	N	R	X	R	R	R	R	R	R	X	R	N	X	N	N	R	R	R	R
Sodium Hydroxide (80%)	N	N	N	N	R	R	R	N	R	N	R	R	R	R	R	R	N	N	R	N	R	R	N	R
Sodium Hypochlorite (< 20%)	N	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	N	R	R	R	R	R	R	R
Sodium Hypochlorite (100%)	N	N	N	N	N	R	R	X	N	N	R	R	R	R	N	R	N	R	R	R	R	R	N	R
Sulfuric Acid (< 10%)	R	N	X	N	R	R	R	X	N	N	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Sulfuric Acid (75-100%)	R	N	X	N	N	R	N	X	N	X	R	R	R	N	N	R	N	N	R	R	R	R	N	R
Toluene (Toluol)	R	R	R	R	R	R	N	N	R	Ν	R	R	R	R	R	R	R	R	R	N	R	N	N	R
Trichloroethylene	R	N	X	R	R	R	N	X	R	N	R	R	R	R	R	X	R	R	R	R	R	N	N	R
Vinegar	R	N	N	R	R	R	R	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Water, Deionized	X	N	R	R	R	R	R	X	X	X	R	R	R	X	R	R	X	X	R	R	R	R	R	R
Water, Distilled	R	N	R	R	R	R	R	R	X	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R
Water, Salt	R	N	N	R	R	R	R	X	X	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R
Xylene	R	R	R	R	R	R	N	Ν	R	R	R	R	R	R	R	R	R	Х	R	R	R	N	N	R
																BUY	SM	ART	BUY	<b>VAL</b>	UE.	BUY		

# Approvals

At Great Plains Industries, we've been building rugged, reliable, liquid flowmeters for over 35 years. The GPI Industrial Meter family includes a full line of Precision and Industrial Turbine meters plus Oval Gear meters in various materials, sizes and fitting options.

We design products to meet the needs of our customers. This includes maintaining appropriate, industry standard approvals. Approvals vary by product line and may be dependent on meter application. For example, Oval Gear Meter approvals are dependent on application as outlined below.

The Approval symbol is listed under product specifications on individual product pages. If no approval mark is found, check the chart below. For details about specific "Approvals" refer to the chart.

3-A	<b>3-A Sanitary Standards, Inc.</b> "Flowmeters for Milk and Milk Products, Number 28-03" for GSCPS Models and L Option Meters.
ATEX	<b>ATEX ANNEX VIII II 3 G</b> Equipment Group II (other than mines); Category 3 (for zone 2); G (for gases, vapors and mist).
CE	Product reviewed for EMC Directive 89/336/EEC or 89/392/EEC. Includes: Euro Norms 50081-1 and 50082-1 on A1 and G2 Series Meters. Note: For <b>Oval Gear Meters</b> , the CE Approval is applied when meter is part of a system.
C UL	<b>Underwriters Laboratories - cUL</b> Classified by UL to Canadian Standard C22.2 No. 157-92 and Canadian Electrical Code, Part 1 as Intrinsi- cally Safe for Class I, Groups A, B, C & D; Class II, Groups E, F & G and Class III.
(Ex)	<b>EEx nL IIC T4 U</b> Per Euro Norm 50021.
F M APPROVED	<b>Factory Mutual Approved</b> Intrinsically Safe for Class I, II, III, Division 1, All Groups. Nonincendive for Class I, II, III, Division 2 Groups A, B, C, D, F, G.
F©	Federal Communication Commission Industry Canada Approval Class B; digital service, part 15 of FCC Rules.
IP44/IP54/IP66	<b>Ingress Protection Code</b> IP44 (Greater than 1 mm and splashed water); IP54 (Dust protected and splashed water); IP66 (Dust-tight and heavy seas).
IP/NEMA	Pulse versions of <b>Oval Gear Meters</b> have enclosure ratings that vary from IP54 / NEMA 13 to IP66 / NEMA 16 depending on the application.
NEMA 4	NEMA Requirements: Enclosure constructed for indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment. Protection against falling dirt, rain, sleet, snow, windblown dust, splashing or hose directed water and corrosion; and that will be undamaged by the external formation of ice on the enclosure. <i>GPI products are tested to NEMA requirements.</i>
(ŲL)	Class I, Division I, Groups B, C and D. Class II, Division I, Groups E, F and G.
	BUY SMART. BUY VALUE. BUY

	Me	ter A	pplie	cation S	Sheet					
Need help with choosing the right meter? Copy this form and fill out the information. Submit the form to GPI to determine the best product for your application.										
				Phone: Fax:						
Fluid: Specific Gravity: Particulate:				Density:	@ °F      sketch basic application					
Air Elimination Req'd Pulsating Flow: Flowrate (GPM): Line Size:	No Min	Yes Yes Nom	Max							
Temperature (° F): Pressure (psiG): Pressure Drop:	Min	Nom Nom	— Max. — Max.	_						
Req'd Accuracy: Approved Wetted Ma Unusual Fluid Proper	terials:									
Display: Output: Approvals Req'd:	No		Pulse _	Remote Current						

# When Performance and Repeatability Counts...



Flowmeter performance can be critical to customers in the field. All flowmeters produced by GPI are quality tested at the factory. We adhere to the strictest testing procedures. We take pride in the performance of our meters and want customers to rest assured, they have purchased one of the best.

Determining flowmeter performance is important to us, so we take extra efforts when it comes to performance testing. Although there are various methods for establishing performance, we use some of the most stringent methods available.

GPI calibration equipment includes primary and secondary standards that are NIST traceable. Primary standards include ballistic calibrators and weight calibration stands.

So when Performance and Repeatability count, *COUNT on GPI*.



GPI, the electric gear pump, and Dual-Flo are registered trademarks of Great Plains Industries, Inc.