GPI®

Industrial Meter Catalog

888-996-3837 | www.gpi.net

SEE INSIDE FOR THESE NEW PRODUCTS:

new

Contents

G Series Precision Meters

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.

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.

Remote Models		Local Models	
GA500	R700-R	GA510	R700-L
GG500	R800-R	GG510	R800-L
GX500	SC500	GX510	SC510

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.

GPI

G Series Meter Number Reference

Use this as a guide – sizes vary by fitting type.

Product Identifier

G = G Series Precision Turbine Meter

Fitting Type

N = NPT (Male)
I = ISO Taper (Male)
B = BSP (Male)
F = Flanged
SC = Sanitary Clamp

*Meter Dimensions
listed on pages 69-71.*

Shaft / Sleeve Bearing / Thrust Bearing

T- = Tungsten Carbide / Tungsten Carbide
P- = Stainless Steel / PTFE / Stainless Steel

Turbine Size & Flowrate

-050S = 1/2 in. (0.6 - 6 GPM) Low Flow - Turbine Body Only◆
-051S = 1/2 in. (0.8 - 6 GPM) Standard - Uses Low Drag Standard Sensor 1
-051H = 1/2 in. (0.8 - 6 GPM) High Temp - Turbine Body Only◆
-075S = 3/4 in. (1.6 - 16 GPM) Standard - Uses Standard Sensor 2
-075H = 3/4 in. (1.6 - 16 GPM) High Temp - Turbine Body Only◆
-075E = 3/4 in. (2.32 - 23 GPM) Ext-Range - Uses Standard Sensor 2
-75EH = 3/4 in. (2.32 - 23 GPM) Ext-Range High Temp - Turbine Body Only◆
-100S = 1 in. (6.7 - 67 GPM) Standard - Uses Standard Sensor 2
-100H = 1 in. (6.7 - 67 GPM) High Temp - Turbine Body Only◆
-150S = 1-1/2 in. (17.7 - 177 GPM) Standard - Uses Standard Sensor 2
-150H = 1 in. (17.7 - 177 GPM) High Temp - Turbine Body Only◆
-200S = 2 in. (33 - 330 GPM) Standard - Uses Standard Sensor 2
-200H = 2 in. (33 - 330 GPM) High Temp - Turbine Body Only◆
-300S = 3 in. (60-600 GPM) Standard - Uses Standard Sensor 2

◆ Call GPI for Sensor & Electronics

Sensor Choice

1 = Low Drag Standard Sensor with 12 inch Lead Wires
2 = Standard Sensor with 12 inch Lead Wires
X = No Sensor - Turbine Body Only

Electronic Choice (Local)*

Turbine Mounted
-5 = GG510 - Standard Display
-6 = GX510 - 4-20 mA Transmitter with Display
-7 = GA510 - 4-20 mA Transmitter
-8 = SC510 - Scaled Pulse Output
-X = No Elecctronics - Turbine Body Only

G + **I** + **T-** + **-075S** + **2** + **-6** ← (Sample Model Number)

* Electronic Choice not available on all models.

Model GNT
NPT Fitting

*GNT shown here
with Local Display*

ACCURACY: ± 0.5%

Select Your Meter Size:

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

For Your Special Application Needs:

Model GNT HT
For High Temperatures
(This model is not available in 3 inch)

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

SPECIFICATIONS	
Design Type:	Turbine
Housing Material:	316 Stainless Steel
Meter Sizes Available:	
For GNT: NPT Taper (Male)	1/2" 3/4" 1" 1-1/2" 2" 3"
For GBT: BSP (Male)	1/2" 3/4" 1" 1-1/2" 2" 3"
For GIT: ISO Taper (Male)	1/2" 3/4" 1" 1-1/2" 2" 3"
For High Temperature*:	1/2" 3/4" 1" 1-1/2" 2" —
Flow Range: 1/2" (051)	0.8 - 6.0 GPM (3.0 - 22 LPM)
3/4" (075)	1.6 - 16 GPM (6.0 - 60 LPM)
3/4" (075E)	2.3 - 23 GPM (8.7 - 87 LPM)
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)
3" (300)	60 - 600 GPM (227.1 - 2271 LPM)
Accuracy (Linearity):	± 0.5%
Repeatability:	± 0.1%
Pressure Rating:	1/2" to 2" = 5,000 PSI / 340 BAR
	3" = 2,500 PSI / 170 BAR
Operating Temperature Range:	
For Tungsten Carbide:	-100°F to +225°F (-74°C to +107°C)
For High Temperature *:	-450°F to +800°F (-268°C to +426°C)
Typical K-Factor: 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
3" (300)	50
Wetted Materials:	
Housing:	316 Stainless Steel
Sleeve Bearings:	Tungsten Carbide
Thrust Bearing:	Tungsten Carbide
Shaft:	Tungsten Carbide
Rotor:	CD4MCu Stainless Steel
Rotor Supports:	316 Stainless Steel
Recommended Strainer Size:	
1/2"	40 mesh
3/4"	40 mesh
1"	40 mesh
1-1/2"	18 mesh
2"	14 mesh
3"	14 mesh
Frequency Output: 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
3" (300)	50 - 500 Hz

* Requires High Temp Pickup.

Precision Meters - GBP, GIP & GNP

GPI

Model GNP
NPT Fitting

GNP shown here with Local Display

ACCURACY: ± 0.5%

Select Your Meter Size:

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

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

SPECIFICATIONS

Design Type:	Turbine
Housing Material:	316 Stainless Steel

Meter Sizes Available:

For GNP: NPT (Male)	1/2"	3/4"	1"	1-1/2"	2"
For GBP: BSP (Male)	1/2"	3/4"	1"	1-1/2"	2"
For GIP: ISO Taper (Male)	1/2"	3/4"	1"	1-1/2"	2"

Flow Range:			
	1/2" (050)*	0.6 - 6.0 GPM	(2.2 - 22 LPM)
	1/2" (051)	0.8 - 6.0 GPM	(3.0 - 22 LPM)
	3/4" (075)	1.6 - 16 GPM	(6.0 - 60 LPM)
	3/4" (075E)	2.3 - 23 GPM	(8.7 - 87 LPM)
	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:	1/2" to 2" = 5,000 PSI / 340 BAR
Operating Temperature Range:	-100°F to +185°F (-74°C to +85°C)

Typical K-Factor:		
	1/2" (050)*	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 Materials:	
Housing:	316 Stainless Steel
Sleeve Bearings:	PTFE
Thrust Bearing:	440C Stainless Steel
Shaft:	316 Stainless Steel
Rotor:	CD4MCu Stainless Steel
Rotor Supports:	316 Stainless Steel

Recommended Strainer Size:	
1/2"	40 mesh
3/4"	40 mesh
1"	40 mesh
1-1/2"	18 mesh
2"	14 mesh

Frequency Output:		
	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

* 1/2 in. (050) requires RF Pickup.

Model GFT
150# RF ANSI Flange Fitting

GFT shown here with Local Display

ACCURACY: ± 0.5%

Select Your Meter Size:

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

1 inch   2 inch

For Your Special Application Needs:

Model GFP
For Chemicals

Model GFT HT
For High Temperatures

(These models not available in 3 inch)

Sensor:
- Standard Pickup (3/4 to 3 inch turbines)

Electronics Options:
- GG510 (Display with Pulse Output)
- GX510 (Display with 4-20 mA Output)
- GA510 (4-20 mA Output)
- SC510 (Scaled Pulse Output)

MODEL GFT – SPECIFICATIONS

Design Type:	Turbine				
Housing Material:	316 Stainless Steel				
Meter Sizes Available:					
For GFT:	3/4"	1"	1-1/2"	2"	3"
For GFP:	3/4"	1"	1-1/2"	2"	—
For High Temperature:	3/4"	1"	1-1/2"	2"	—

Flow Range:	3/4" (075)	1.6 - 16 GPM	(6.0 - 60 LPM)
	3/4" (075E)	2.3 - 23 GPM	(8.7 - 87 LPM)
	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)
	3" (300)	60 - 600 GPM	(227.1 - 2271 LPM)
Accuracy (Linearity):	± 0.5%		
Repeatability:	± 0.1%		
Pressure Rating:	Flange Rule		
Operating Temperature Range:			
For Tungsten Carbide:	-100°F to +225°F	(-74°C to +107°C)	
For SS/PTFE:	-100°F to +185°F	(-74°C to +85°C)	
For High Temperature*:	-450°F to +800°F	(-268°C to +426°C)	
Typical K-Factor:	3/4" (075)	3,750	
	3/4" (075E)	2,608	
	1" (100)	896	
	1-1/2" (150)	340	
	2" (200)	181	
	3" (300)	50	
Wetted Materials (GFT):			
Housing:	316 Stainless Steel		
Sleeve Bearings:	Tungsten Carbide		
Thrust Bearing:	Tungsten Carbide		
Shaft:	Tungsten Carbide		
Rotor:	CD4MCu Stainless Steel		
Rotor Supports:	316 Stainless Steel		
Wetted Materials (GFP):			
Housing:	316 Stainless Steel		
Sleeve Bearings:	PTFE		
Thrust Bearing:	440C Stainless Steel		
Shaft:	316 Stainless Steel		
Rotor:	CD4MCu Stainless Steel		
Rotor Supports:	316 Stainless Steel		
Recommended Strainer Size:			
	3/4"	40 mesh	
	1"	40 mesh	
	1-1/2"	18 mesh	
	2"	14 mesh	
	3"	14 mesh	
Frequency Output:	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	
	3" (300)	50 - 500 Hz	

* Requires High Temp Pickup.

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

MODEL GSCPS – SPECIFICATIONS		
Design Type:	Turbine	
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	
Recommended Strainer Size:		
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	

APPROVALS

GSCPS & "L" Option Meters carry a

Sanitary Rating.
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.

BUY SMART . BUY VALUE . BUY GPI

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

Model GSCP
Tri-Clover® 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)

MODEL GSCP – SPECIFICATIONS		
Design Type:		Turbine
Housing Material:		316 Stainless Steel
Meter Sizes Available (ID):		1/2" 3/4" 1" 1-1/2" 2"
Meter ID:	1/2"	3/4" Fitting
	1/2"	1" Fitting
	3/4"	1-1/2" Fitting
	1"	1-1/2" Fitting
	1-1/2"	1-1/2" Fitting
	2"	2" Fitting
Flow Range:	1/2" (050)†	0.6 - 6 GPM (2.2 - 22 LPM)
	1/2" (051)	0.8 - 6 GPM (3.0 - 22 LPM)
	3/4" (075)	1.6 - 16 GPM (6.0 - 60 LPM)
	3/4" (075E)	2.3 - 23 GPM (8.7 - 87 LPM)
	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:		-100°F to +185°F (-74°C to +85°C)
Typical K-Factor:	1/2" (050)†	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 Materials:		
Housing:		316 Stainless Steel
Sleeve Bearings:		PTFE
Thrust Bearing:		440C Stainless Steel
Shaft:		316 Stainless Steel
Rotor:		CD4MCu Stainless Steel
Rotor Supports:		316 Stainless Steel
Recommended Strainer Size:		
	1/2"	40 mesh
	3/4"	40 mesh
	1"	40 mesh
	1-1/2"	18 mesh
	2"	14 mesh
Frequency Output:	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 requires RF Pickup.

GPI / *G Series Precision Accessories*

Magnetic Pickups

Standard

Wire Lead

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.

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

2
Choose: Local or Remote/Output
Local uses a wire lead pickup.
Remote/Output requires a connector.

3
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.

Description	Part Number	Sensor Power	Temperature Range	Cable Type	Connector Required	Cable Length	Thread Size	Local	Remote	Battery Pwr Display
1/2 inch Meter Sizes										**Magnetic Pickups work with…**
Wire Lead Low Drag	81006001	None	-100°F - +250°F (-73°C - +121°C)	None	None	12 in.	5/8" - 18	X		Yes
Low Drag	81006000	None	-450°F - +450°F (-268°C - +232°C)	S	80001200	N/A	5/8" - 18		X	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		X	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		X	No
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	X		Yes
Standard	81001000	None	-100°F - +250°F (-73°C - +121°C)	S	80001200	N/A	5/8" - 18		X	Yes
Herm / High Temperature	81002000	None	-450°F - +258°F (-268°C - +125°C)	S	80001200	N/A	5/8" - 18		X	Yes
High Temperature, Standard	81007000	None	-450°F - +800°F (-268°C - +426°C)	None	None	3 ft.	5/8" - 18		X	Yes
* Digital (Di-Mag)	81004000	5-32 VDC	-40°F - +248°F (-29°C - +120°C)	D	80001202	N/A	5/8" - 18		X	No

* Externally powered pickups for pulse output only.

Pickup Enclosures

Model No.
N4SWP

Model No.
N7AXP

Model No.
N4AWP

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 pickup steel enclosure	80001101
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

BUY SMART . BUY VALUE . BUY *GPI*

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
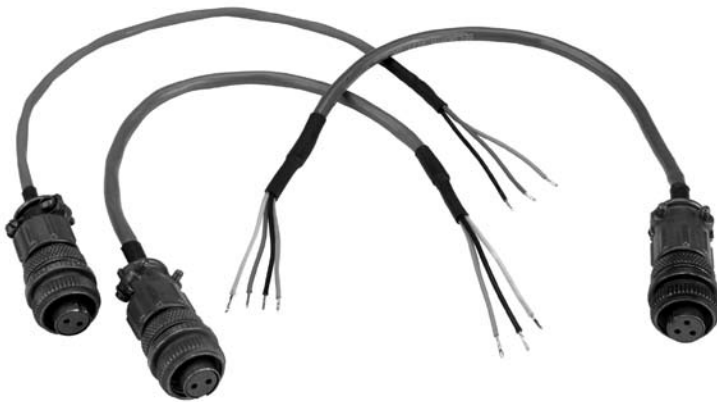
GPI Cable Assemblies include the connector.

Type "S" Standard Cable (2 Conductor)		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 self-contained design. G2 Series Meters are field serviceable. Electronic choices for the G2 Series Meters are covered in Section 6.

Build-Your-Own G2 Meter

1) Select Your Turbine Material and Size

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

Stainless Steel

Aluminum
(Shown with 09 Computer)

Brass
(Shown with 09 Computer)

PVC
(Shown with 09 Computer)

PVDF

2) Need A Computer?

09 Computer

XX No Computer

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

3) Add a Module?

For further details and selections see pages 22-25.

Standard Remote Kit

FM Approved Remote Kit

Conditioned Signal Output Module

FM Approved Sensor Kit

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.

Conduit Adapter Kit

90° Display Adapter Kit

510 Conversion Kit

Pulse Access Dust Cover

GPI Electronics Programmer

G2 Meter Number Reference

GPI®

Product Identifier

G2 = Industrial Grade Meter

Turbine Material & Size

Metal Meters:

S05	=	Stainless Steel – 1/2 in.
S07	=	Stainless Steel – 3/4 in.
S10	=	Stainless Steel – 1 in.
S15	=	Stainless Steel – 1-1/2 in.
S20	=	Stainless Steel – 2 in.
H05	=	Stainless Steel High Pressure – 1/2 in.
H07	=	Stainless Steel High Pressure – 3/4 in.
H10	=	Stainless Steel High Pressure – 1 in.
H15	=	Stainless Steel High Pressure – 1-1/2 in.
H20	=	Stainless Steel High Pressure – 2 in.

A05	=	Aluminum – 1/2 in.
A07	=	Aluminum – 3/4 in.
A10	=	Aluminum – 1 in.
A15	=	Aluminum – 1-1/2 in.
A20	=	Aluminum – 2 in.
B05	=	Brass – 1/2 in.
B07	=	Brass – 3/4 in.
B10	=	Brass – 1 in.
B15	=	Brass – 1-1/2 in.
B20	=	Brass – 2 in.

Plastic Meters:

C05	=	PVC – 1/2 in.
C10	=	PVC – 1 in.
P05	=	PVDF – 1/2 in.
P10	=	PVDF – 1 in.

Meter Dimensions listed on pages 69-71.

Fitting Type

F	=	150# ANSI Flange - available on S10, S15 and S20 only
I	=	ISO (Female)
N	=	NPT (Female)
T	=	Tri-Clover® Fitting - available on S05 - S20 only
W	=	Solvent Weld - available on PVC only
X	=	Electronics Only - for metal meters
Z	=	Electronics Only - for plastic meters

Electronic Choice

Turbine with Local Display

09	=	2 Button Computer, Field Configurable (2 Totals, 2 Calibrations, Rate)
19	=	Vertical Mount 2-Button Computer, Field Configurable (2 Totals, 2 Calibrations, Rate)

Pulse Output (Remote)

41	=	Remote Pulse Out Transmitter & Sine Wave Pickup (Standard Remote Sensor Option)
43	=	Remote Pulse Out Transmitter & Turbine Mounted Computer (Pulse Out Sensor Option)

GG500 – Display with Pulse Output (Remote)

51	=	Sine Wave Pickup (Standard Remote Sensor Option)
52	=	Open Collector Pickup (Conditioned Signal Sensor Option)
53	=	Turbine Mounted Computer (Pulse Access Sensor Option)

GX500 – Display with 4-20 mA Output (Remote)

61	=	Sine Wave Pickup (Standard Remote Sensor Option)
62	=	Open Collector Pickup (Conditioned Signal Sensor Option)
63	=	Turbine Mounted Computer (Pulse Access Sensor Option)

GA500 – 4-20 mA Output (Remote)

71	=	Sine Wave Pickup (Standard Remote Sensor Option)
72	=	Open Collector Pickup (Conditioned Signal Sensor Option)
73	=	Turbine Mounted Computer (Pulse Access Sensor Option)

No Electronics – Turbine Only

XX	=	No Electronics – Turbine Only

Calibration

GM	=	Gallons / Minute
LM	=	Litres / Minute
XX	=	No Computer

Packaging

A	=	Use for Turbine Only or Turbine w/Display (Sizes 05-10)
B	=	Use for Turbine Only or Turbine w/Display (Sizes 15-20)
C	=	Use for Turbine with Remote Transmitter With or Without Turbine Mounted Display (Sizes 05-20)
D	=	Use for 150# ANSI Flange Turbine Only (Size 10)
E	=	Use for 150# ANSI Flange Turbine Only (Sizes 15-20) Use for 150# ANSI Flange Turbine with Remote Transmitter (Sizes 10, 15 or 20)

G2 + **S07** + **N** + **09** + **GM** + **A** ← (Sample Model Number)

BUY SMART. BUY VALUE. BUY **GPI**

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.

STAINLESS STEEL - SPECIFICATIONS

Fitting Type:		NPT or ISO (Female)	
Housing Material:		316 Stainless Steel	
Meter Sizes Available:		1/2" 3/4" 1" 1-1/2" 2"	
Flow Range:	**1/2" (S05)**	1 - 10 GPM	(3.8 - 37.9 LPM)
	3/4" (S07)	2 - 20 GPM	(7.6 - 75.7 LPM)
	1" (S10)	5 - 50 GPM	(18.9 - 190 LPM)
	1-1/2" (S15)	10 - 100 GPM	(38.0 - 380 LPM)
	2" (S20)	20 - 200 GPM	(76 - 760 LPM)
Accuracy (% of Reading):		**Turbine Only**	**Turbine w/Computer**
	1/2" (S05)	± 2.0%	± 1.5%
	3/4" (S07)	± 1.5%	± 1.0%
	1" (S10)	± 1.5%	± 1.0%
	1-1/2" (S15)	± 1.0%	± 0.75%
	2" (S20)	± 1.0%	± 0.75%
Repeatability:		± 0.1%	
Pressure Rating:		1,500 PSI / 102 BAR	
Operating Temperature Range:		-40°F to +250°F (-40°C to +121°C)	
with Computer:		+14°F to +140°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:	**Housing:**	316 Stainless Steel	
	Bearings:	Ceramic	
	Shaft:	Tungsten Carbide	
	Rotor:	PVDF	
	Rings:	316 Stainless Steel	
Frequency Range:	**1/2" (S05)**	42 - 420 Hz @ 1 - 10 GPM	
	3/4" (S07)	37 - 370 Hz @ 2 - 20 GPM	
	1" (S10)	47 - 470 Hz @ 5 - 50 GPM	
	1-1/2" (S15)	36 - 360 Hz @ 10 - 100 GPM	
	2" (S20)	33 - 330 Hz @ 20 - 200 GPM	
Recommended Strainer Size:			
	1/2" (S05)	55 mesh	
	3/4" (S07)	55 mesh	
	1" (S10)	55 mesh	
	1-1/2" (S15)	28 mesh	
	2" (S20)	28 mesh	
Maximum Flow:	**1/2" (S05)**	15 GPM (56.8 LPM)	
	3/4" (S07)	30 GPM (113.6 LPM)	
	1" (S10)	75 GPM (284 LPM)	
	1-1/2" (S15)	150 GPM (568 LPM)	
	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" (S15)	2-3/8 inch (60 mm)	
	2" (S20)	3 inch (75 mm)	
Shipping Weight:	**1/2" (S05)**	2.3 lbs./1.1 kg - Turbine Only: 2.1 lbs./.95 kg	
	3/4" (S07)	2.5 lbs./1.1 kg - Turbine Only: 2.3 lbs./1.0 kg	
	1" (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)	6.8 lbs./3.0 kg - Turbine Only: 6.6 lbs./3.0 kg	

ELECTRONIC CHOICES

Local Display, Remote Display & Remote Transmitter Options:	See Section 6.

APPROVALS

FM APPROVED   c UL   CE   ⟨Ex⟩   NEMA 4   ATEX   **IP44**

GPI

G2 Industrial Meters - High Pressure

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

Select Your Meter Size:

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

Features and Benefits:

✓ High pressure and high accuracy.

✓ Excellent chemical compatibility.

✓ Modular design allows for use with Output Modules, Sensors and Remote Transmitters.

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

✓ Internal parts are simple to replace for easy maintenance.

✓ Powered by Lithium batteries for approximately 9,000 hours.

HIGH PRESSURE - SPECIFICATIONS			
Fitting Type:	NPT or ISO (Female)		
Housing Material:	316 Stainless Steel		
Meter Sizes Available:	1/2" 3/4" 1" 1-1/2" 2"		
Flow Range: 1/2" (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)		
1-1/2" (H15)	10 - 100 GPM (38.0 - 380 LPM)		
2" (H20)	20 - 200 GPM (76 - 760 LPM)		
Accuracy (% of Reading):		Turbine Only	Turbine w/Computer
1/2" (H05)		± 2.0%	± 1.5%
3/4" (H07)		± 1.5%	± 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 Temperature Range:	-40°F to +250°F (-40°C to +121°C)		
with Computer:	+14°F to +140°F (-10°C to +60°C)		
Typical K-Factor: 1/2" (H05)	2,500		
3/4" (H07)	1,100		
1" (H10)	565		
1-1/2" (H15)	215		
2" (H20)	100		
Wetted Materials: Housing:	316 Stainless Steel		
Bearings:	Ceramic		
Shaft:	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 Strainer Size:			
1/2" (H05)	55 mesh		
3/4" (H07)	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)		
2" (H20)	300 GPM (1,136 LPM)		
Wrench Flat Size: 1/2" (H05)	1-1/16 inch (27 mm)		
3/4" (H07)	1-5/16 inch (33 mm)		
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 kg		
3/4" (H07)	2.4 lbs./1.1 kg - Turbine Only: 2.2 lbs./1.0 kg		
1" (H10)	3.0 lbs./1.3 kg - Turbine Only: 2.8 lbs./1.2 kg		
1-1/2" (H15)	4.6 lbs./2.1 kg - Turbine Only: 4.4 lbs./2.0 kg		
2" (H20)	6.8 lbs./3.0 kg - Turbine Only: 6.6 lbs./3.0 kg		
ELECTRONIC CHOICES			
Local Display, Remote Display & Remote Transmitter Options:	See Section 6.		
APPROVALS			
C E			

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.

ANSI FLANGE - SPECIFICATIONS		
Fitting Type:	150# ANSI Flange	
Housing Material:	316 Stainless Steel	
Meter Sizes Available:	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 Reading):	**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 Temperature Range:	-40°F to +250°F (-40°C to +121°C)	
with Computer:	+14°F to +140°F (-10°C to +60°C)	
Typical K-Factor: 1" (S10F)	565	
1-1/2" (S15F)	215	
2" (S20F)	100	
Wetted Materials: Housing:	316 Stainless Steel	
Bearings:	Ceramic	
Shaft:	Tungsten Carbide	
Rotor:	PVDF	
Rings:	316 Stainless Steel	
Frequency Range: 1" (S10F)	47 - 470 Hz @ 5 - 50 GPM	
1-1/2" (S15F)	36 - 360 Hz @ 10 - 100 GPM	
2" (S20F)	33 - 330 Hz @ 20 - 200 GPM	
Recommended Strainer Size:		
1" (S10F)	55 mesh	
1-1/2" (S15F)	28 mesh	
2" (S20F)	28 mesh	
Maximum Flow: 1" (S10F)	75 GPM (284 LPM)	
1-1/2" (S15F)	150 GPM (568 LPM)	
2" (S20F)	300 GPM (1,136 LPM)	
Shipping Weight: 1" (S10F)	7.2 lbs./3.3 kg - Turbine Only: 7.0 lbs./3.2 kg	
1-1/2" (S15F)	11.3 lbs./5.1 kg - Turbine Only: 11.1 lbs./5.0 kg	
2" (S20F)	18.6 lbs./8.4 kg - Turbine Only: 18.4 lbs./8.3 kg	
ELECTRONIC CHOICES		
Local Display, Remote Display & Remote Transmitter Options:	See Section 6.	
APPROVALS		

FM APPROVED   c(UL)   CE   ⟨Ex⟩   NEMA 4   ATEX   IP44

GPI / *G2 Industrial Meters - Tri-Clover®*

The GPI Stainless Steel Meters with Tri-Clover® fittings can be used with food and beverage industries in pre-process 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.

TRI-CLOVER® - SPECIFICATIONS

Fitting Type:	Tri-Clover®	
Housing Material:	316 Stainless Steel	
Meter Sizes Available:	1/2" 3/4" 1" 1-1/2" 2"	
Tri-Clover® Fittings Available:	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 Reading):	**Turbine Only**	**Turbine w/Computer**
1/2" (S05T)	± 2.0%	± 1.5%
3/4" (S07T)	± 1.5%	± 1.0%
1" (S10T)	± 1.5%	± 1.0%
1-1/2" (S15T)	± 1.0%	± 0.75%
2" (S20T)	± 1.0%	± 0.75%

Repeatability:	± 0.1%	
Pressure Rating:	Limited by fitting size, clamp size & temp.	
Operating Temperature Range:	-40°F to +250°F (-40°C to +121°C)	
with 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:	**Housing:**	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 Strainer 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

ELECTRONIC CHOICES

Local Display, Remote Display & Remote Transmitter Options:	See Section 6.

APPROVALS

FM APPROVED   c UL   CE   Ex   NEMA 4   ATEX   IP44

BUY SMART . BUY VALUE . BUY *GPI*

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:

l/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.

ALUMINUM - SPECIFICATIONS		
Fitting Type:	NPT or ISO (Female)	
Housing Material:	Aluminum	
Meter Sizes Available:	1/2" 3/4" 1" 1-1/2" 2"	
Flow Range: 1/2" (A05)	1 - 10 GPM	(3.8 - 37.9 LPM)
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	(38.0 - 380 LPM)
2" (A20)	20 - 200 GPM	(76 - 760 LPM)
Accuracy (% of Reading):	**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 BAR	
Operating Temperature Range:	-40°F to +250°F (-40°C to +121°C)	
with 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: Housing:	Aluminum	
Bearings:	Ceramic	
Shaft:	Tungsten Carbide	
Rotor:	PVDF	
Rings:	316 Stainless Steel	
Frequency Range: 1/2" (A05)	42 - 420 Hz @ 1 - 10 GPM	
3/4" (A07)	37 - 370 Hz @ 2 - 20 GPM	
1" (A10)	47 - 470 Hz @ 5 - 50 GPM	
1-1/2" (A15)	36 - 360 Hz @ 10 - 100 GPM	
2" (A20)	33 - 330 Hz @ 20 - 200 GPM	
Recommended Strainer Size:		
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 LPM)	
3/4" (A07)	30 GPM (113.6 LPM)	
1" (A10)	75 GPM (284 LPM)	
1-1/2" (A15)	150 GPM (568 LPM)	
2" (A20)	300 GPM (1,136 LPM)	
Wrench Flat Size: 1/2" (A05)	1-1/16 inch (27 mm)	
3/4" (A07)	1-5/16 inch (33 mm)	
1" (A10)	1-5/8 inch (41 mm)	
1-1/2" (A15)	2-3/8 inch (60 mm)	
2" (A20)	3 inch (75 mm)	
Shipping Weight: 1/2" (A05)	1.3 lbs./.59 kg - Turbine Only: 1.1 lbs./.50 kg	
3/4" (A07)	1.4 lbs./.63 kg - Turbine Only: 1.2 lbs./.50 kg	
1" (A10)	1.6 lbs./.73 kg - Turbine Only: 1.4 lbs./.63 kg	
1-1/2" (A15)	2.8 lbs./1.3 kg - Turbine Only: 2.6 lbs./1.2 kg	
2" (A20)	3.9 lbs./1.7 kg - Turbine Only: 3.7 lbs./1.7 kg	
ELECTRONIC CHOICES		
Local Display, Remote Display		
& Remote Transmitter Options:	See Section 6.	
APPROVALS		

FM APPROVED   c UL   CE   Ex   NEMA 4   ATEX   IP44

![GPI logo]
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:

l/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 (Female)				
Housing Material:	Brass				
Meter Sizes Available:	1/2" 3/4" 1" 1-1/2" 2"				
Flow Range:	**1/2" (B05)**	1 - 10 GPM	(3.8 - 37.9 LPM)		
	3/4" (B07)	2 - 20 GPM	(7.6 - 75.7 LPM)		
	1" (B10)	5 - 50 GPM	(18.9 - 190 LPM)		
	1-1/2" (B15)	10 - 100 GPM	(38.0 - 380 LPM)		
	2" (B20)	20 - 200 GPM	(76 - 760 LPM)		

Accuracy (% of Reading):		**Turbine Only**	**Turbine w/Computer**
	1/2" (B05)	± 2.0%	± 1.5%
	3/4" (B07)	± 1.5%	± 1.0%
	1" (B10)	± 1.5%	± 1.0%
	1-1/2" (B15)	± 1.0%	± 0.75%
	2" (B20)	± 1.0%	± 0.75%

Repeatability:	± 0.1%	
Pressure Rating:	300 PSI / 21 BAR	
Operating Temperature Range:	-40°F to +250°F (-40°C to +121°C)	
with Computer:	+14°F to +140°F (-10°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:	**Housing:**	Brass
	Bearings:	Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	PVDF
	Rings:	316 Stainless Steel
Frequency Range:	**1/2" (B05)**	42 - 420 Hz @ 1 - 10 GPM
	3/4" (B07)	37 - 370 Hz @ 2 - 20 GPM
	1" (B10)	47 - 470 Hz @ 5 - 50 GPM
	1-1/2" (B15)	36 - 360 Hz @ 10 - 100 GPM
	2" (B20)	33 - 330 Hz @ 20 - 200 GPM
Recommended Strainer Size:		
	1/2" (B05)	55 mesh
	3/4" (B07)	55 mesh
	1" (B10)	55 mesh
	1-1/2" (B15)	28 mesh
	2" (B20)	28 mesh
Maximum Flow:	**1/2" (B05)**	15 GPM (56.8 LPM)
	3/4" (B07)	30 GPM (113.6 LPM)
	1" (B10)	75 GPM (284 LPM)
	1-1/2" (B15)	150 GPM (568 LPM)
	2" (B20)	300 GPM (1,136 LPM)
Wrench Flat Size:	**1/2" (B05)**	1-1/16 inch (27 mm)
	3/4" (B07)	1-5/16 inch (33 mm)
	1" (B10)	1-5/8 inch (41 mm)
	1-1/2" (B15)	2-3/8 inch (60 mm)
	2" (B20)	3 inch (75 mm)
Shipping Weight:	**1/2" (B05)**	2.4 lbs./1.0 kg - Turbine Only: 2.2 lbs./1.0 kg
	3/4" (B07)	2.6 lbs./1.1 kg - Turbine Only: 2.4 lbs./1.0 kg
	1" (B10)	3.1 lbs./1.4 kg - Turbine Only: 2.9 lbs./1.3 kg
	1-1/2" (B15)	3.1 lbs./1.4 kg - Turbine Only: 2.9 lbs./1.3 kg
	2" (B20)	10.0 lbs./4.5 kg - Turbine Only: 9.8 lbs./4.4 kg

ELECTRONIC CHOICES

Local Display, Remote Display	
& Remote Transmitter Options:	See Section 6.

APPROVALS

FM APPROVED   c UL us   CE   ⟨Ex⟩   NEMA 4   ATEX   **IP44**

BUY SMART . BUY VALUE . BUY *GPI*

GPI

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/2 inch   l inch

Features and Benefits:

✓ PVC meters are economical, durable and lightweight.

✓ Available with Local Display or Remote Transmitter.

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

✓ Accessories easily upgrade meter.

✓ One field replaceable internal part makes maintenance easy.

PVC - SPECIFICATIONS

Fitting Type:		NPT or Solvent Weld (Female)
Housing Material:		PVC
Meter Sizes Available:		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 Reading):		**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 Temperature Range:		+32°F to +140°F (0°C to +60°C)
with Computer:		+14°F to +140°F (-10°C to +60°C)
Maximum Storage Temperature:		-40°F to +158°F (-40°C to +70°C)
Typical K-Factor:	1/2" (C05)	2,400
	1" (C10)	540
Wetted Materials:	**Housing:**	PVC
	Bearings:	Ceramic
	Shaft:	Ceramic
	Rotor:	PVDF
	Rings:	Fluorocarbon
Frequency Range:	1/2" (C05)	48 - 480 Hz @ 1.2 - 12 GPM
	1" (C10)	45 - 450 Hz @ 5 - 50 GPM
Recommended Strainer Size:		
	1/2" (C05)	55 mesh
	1" (C10)	28 mesh
Maximum Flow:	1/2" (C05)	15 GPM (56.8 LPM)
	1" (C10)	75 GPM (284 LPM)
Shipping Weight:	1/2" (C05)	1.3 lbs./0.6 kg - Turbine Only: 1.1 lbs./.51 kg
	1" (C10)	1.9 lbs./0.8 kg - Turbine Only: 1.7 lbs./.77 kg

ELECTRONIC CHOICES

Local Display, Remote Display	
& Remote Transmitter Options:	See Section 6.

APPROVALS

C E

GPI® 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   1 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 (Female)	
Housing Material:		PVDF	
Meter Sizes Available:		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 Reading):		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 Temperature Range:		-20°F to +180°F (-28°C to +82°C)	
with Computer:		+14°F to +140°F (-10°C to +60°C)	
Maximum Storage Temperature:		-40°F to +250°F (-40°C to +121°C)	
Typical K-Factor:	1/2" (P05)	2,400	
	1" (P10)	540	
Wetted Materials:	Housing:	PVDF	
	Bearings:	Ceramic - 98% Alumina	
	Shaft:	Ceramic - 98% Alumina	
	Rotor:	PVDF	
	Rings:	Fluorocarbon	
Optional O-Ring:		PTFE	
Frequency Range:	1/2" (P05)	48 - 480 Hz @ 1.2 - 12 GPM	
	1" (P10)	45 - 450 Hz @ 5 - 50 GPM	
Recommended Strainer Size:			
	1/2" (P05)	55 mesh	
	1" (P10)	28 mesh	
Maximum Flow:	1/2" (P05)	15 GPM (56.8 LPM)	
	1" (P10)	75 GPM (284 LPM)	
Shipping Weight:	1/2" (P05)	1.3 lbs./0.6 kg - Turbine Only: 1.1 lbs./.54 kg	
	1" (P10)	1.9 lbs./0.8 kg - Turbine Only: 1.7 lbs./.77 kg	
ELECTRONIC CHOICES			
Local Display, Remote Display			
& Remote Transmitter Options:		See Section 6.	

APPROVALS

FM APPROVED   cULus   CE   Ex   NEMA 4   ATEX   IP44

GPI®

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

Standard Remote Kit Assembly Installed

CE

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 dust-cover assembly and 10 ft. of cable. Requires a complete meter with display.

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.

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

CE

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 dust-cover assembly and 10 ft. of cable. Requires a complete meter with display.

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.

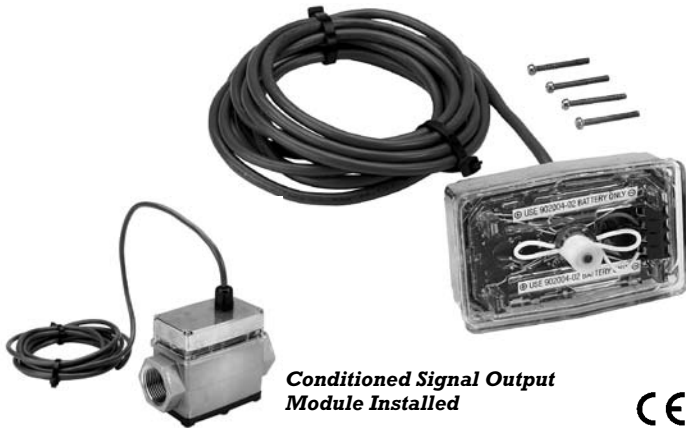| SPECIFICATIONS	
Magnetic Pickup:	1.3 k Ohm, 90 mH
Signal Type:	Sine Wave
Voltage:	Peak to Peak 10 mV to 500 mV
Frequency:	11 to 750 Hz
Cable:	10 ft. (3 m), 2-conductor shielded, Belden #9501
APPROVALS	
FM APPROVED	

BUY SMART . BUY VALUE . BUY **GPI**

G2 Meter Modules

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

Conditioned Signal Output Module Installed

CE

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 self-powered 6-volt Square Wave signal.

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.

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

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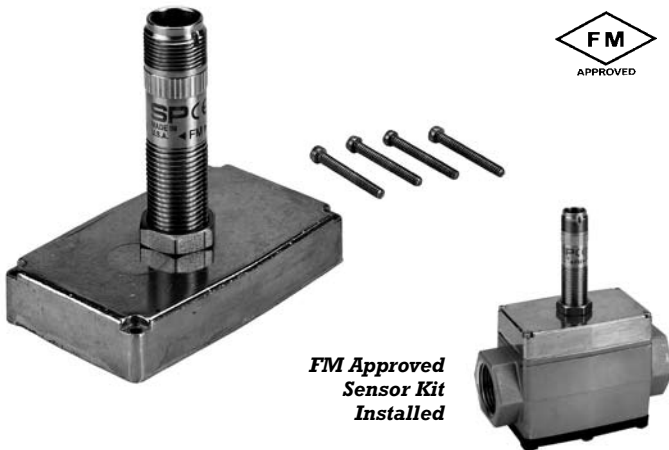
FM APPROVED

FM Approved Sensor Kit Installed

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.

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.

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

BUY SMART . BUY VALUE . BUY *GPI*

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

**4-20 mA Module
Installed**

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.

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.

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

Pulse Access Module (Part No. 125060-1)

**Pulse Access
Module Installed**

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

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

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

Features and Benefits:

✓ Provides a digital Open Collector signal.

✓ Operating temperature range of +14°F to +140°F (-10°C to +60°C).

✓ Can transmit signal up to 5,000 ft.

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

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

CE
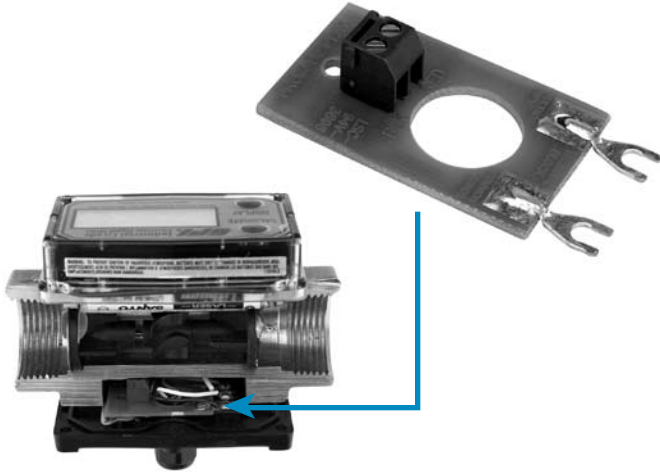
BUY SMART . BUY VALUE . BUY *GPI*

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.

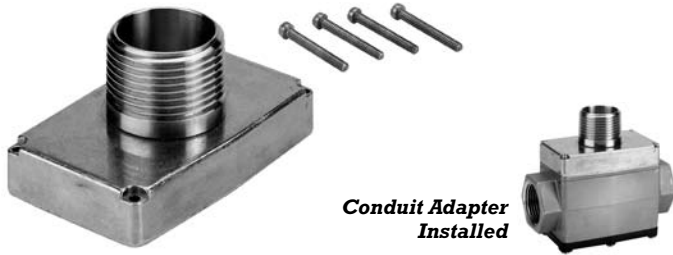| SPECIFICATIONS	
Voltage:	7 to 30 VDC @ 1 mA
APPROVALS	
CE	

Conduit Adapter Kit (Part No. 113437-01)

Conduit Adapter Installed

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)

Kit Shown Installed on PVDF Meter

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.
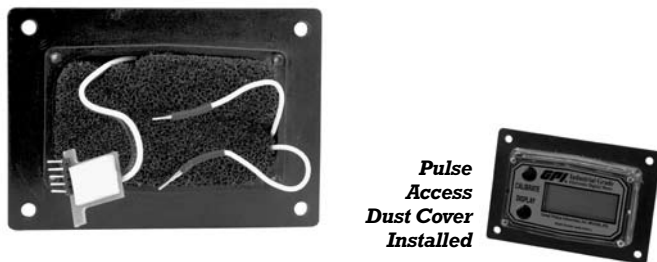
510 Conversion Kit (Part No. 11344001)

510 Conversion Kit Shown as Installed

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)

Pulse Access Dust Cover Installed

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

GPI Electronics Programmer (Part No. 113800-06)

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

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GM Series Oval Gear Meters

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.

1) Select Your GM 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)

3) Select Your Electronics Choice

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.

GM Series Meter Number Reference

Product Identifier

GM001 = Pulse Meter - 1/8 inch
GM002 = Pulse Meter - 1/4 inch
GM003 = Pulse Meter - 1/4 inch
GM005 = Pulse Meter - 1/2 inch
GM505 = Mechanical Meter - 1/2 inch
GM006 = Pulse Meter - 3/4 inch
GM007 = Pulse Meter - 1 inch
GM010 = Pulse Meter - 1 inch
GM510 = Mechanical Meter - 1 inch
GM015 = Pulse Meter - 1-1/2 inch
GM515 = Mechanical Meter - 1-1/2 inch
GM020 = Pulse Meter - 2 inch
GM520 = Mechanical Meter - 2 inch

Body Material

A = Aluminum (All models except GM007)
C = PPS w/Hastalloy C Shafts (Model GM007 only)
I = Intermediate Pressure Stainless Steel (Models GM001, GM002 & GM003)
R = PPS (Models GM002, GM003 & GM007)
S = Stainless Steel (All models except GM006 & GM007)

GM Series dimensions listed on page 69.

Fitting Type

1 = BSP (Female) Litre
2 = NPT (Female) Gallon
3 = NPT (Female) Litre (Models GM505, GM510, GM515 & GM520)
4 = 150# ANSI Flange Gallon (Models GM010, GM015, GM020, GM510, GM515, GM520 Aluminum & S.S. only)
5 = 150# ANSI Flange Litre (Models GM510, GM515, GM520 Aluminum & S.S. only)
6 = Tri-Clover® Fitting Gallon (Models GM010, GM015 S.S. only)

Sensor

C = Combination Reed Switch & Hall Effect (Models GM001, GM002 & GM003)
H = Hall Effect (Models GM005, GM006, GM007, GM010, GM015 & GM020)
M = Mechanical Display (Models GM505, GM510, GM515 & GM520 only)
R = Reed Switch (Models GM005, GM006, GM007, GM010, GM015 & GM020)

Rotor Materials

2 = PPS (Models GM002*, GM003*, GM005, GM006, GM007*, GM010, GM015, GM020, GM505, GM510, GM515 & GM520)
3 = High Viscosity PPS (Models GM005, GM010, GM015, GM020, GM505, GM510, GM515 & GM520)
4 = Stainless Steel (Models GM001, GM002, GM003, GM005, GM010, GM015, GM020, GM510, GM515 & GM520)
5 = High Viscosity S.S. (Models GM003, GM005, GM010, GM015, GM020, GM510, GM515 & GM520)

O-Ring

1 = Fluorocarbon
2 = Perfluoroelastomer (GM001, GM002 & GM003); PTFE on (GM005 and larger)

Electronics Choice

1 = Pulse Out - Aluminum (Models GM001, GM002, GM003, GM005, GM010, GM015 & GM020)
2 = Pulse Out - S.S. (Models GM001, GM002, GM003, GM005, GM010, GM015 & GM020)
3 = Pulse Out - Bronze (Models GM010 & GM015)
4 = Pulse Out - PPS (Models GM002, GM003 & GM007)
5 = GG500 - Standard Display (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)
6 = GX500 - 4-20 mA Transmitter with Display (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)
7 = GA500 - 4-20 mA Transmitter (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)
9 = Mechanical (Models GM505, GM510, GM515 & GM520)

GM001 + **A** + **2** + **R** + **4** + **1** + **1**   ← (Sample Model Number)

* Requires PPS body material.

BUY SMART . BUY VALUE . BUY *GPI*

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

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 wear-able 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:	75 PSI / 5 BAR
Stainless Steel:	150 PSI / 10 BAR
Intermed. Pressure SS:	800 PSI / 55 BAR
Maximum Temperature:	
Aluminum:	176°F / 80°C
Stainless Steel:	248°F / 120°C
Intermed. Pressure SS:	248°F / 120°C
Typical K-Factor:	5855.4 PPG / 1547 PPL
Wetted Mat'l. - Housing:	
Aluminum:	Aluminum with PPS Cap
Stainless Steel:	316 Stainless Steel
Intermed. Pressure SS:	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
Recommended Strainer Size:	200 mesh
Shipping Weight (approx.):	
Aluminum:	1.0 lbs. (0.45 kg)
Stainless Steel:	2.0 lbs. (0.91 kg)
Intermed. Pressure SS:	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.

BUY SMART . BUY VALUE . BUY *GPI*

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

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
O-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
	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:	176°F / 80°C
Stainless Steel:	248°F / 120°C
Intermed. Pressure SS:	248°F / 120°C
Typical K-Factor:	3785.4 PPG / 1000 PPL
Wetted Mat'l. - Housing:	
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:	Hastalloy C / Stainless Steel
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 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.

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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
O-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:	248°F / 120°C
Intermed. Pressure SS:	248°F / 120°C
Typical K-Factor:	1514.2 PPG / 400 PPL
Wetted Mat'l. - Housing:	
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:	Hastalloy C / Stainless Steel
Stainless Steel:	316 Stainless Steel
Intermed. Pressure SS:	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 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
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:	0.26 - 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:	
PPS Rotors:	176°F / 80°C
SS Rotors:	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
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.

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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
Recommended Strainer Size:	60 mesh
Shipping Weight (approx.):	
Aluminum:	3.75 lbs. (1.7 kg)
Stainless Steel:	6.5 lbs. (2.9 kg)

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.

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.

GM006 - 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.

Meter shown here with Electronic choice -5.

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

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 wear-able 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.

GM007 - SPECIFICATIONS	
Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch or Hall Effect Sensor*
Rotor Material:	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 - 21.0 GPM (3 - 80 LPM)
Flow Range @ < 5 cps:	2.1 - 18.5 GPM (8 - 70 LPM)
Accuracy:	± 0.5% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	1,000 cps
Pressure Rating:	150 PSI / 10 BAR
Maximum Temperature:	176°F / 80°C
Typical K-Factor:	
Single Pickup:	197 PPG / 52 PPL
Wetted Mat'l. - Housing:	PPS
Wetted Mat'l. - Bearings:	PPS
Wetted Mat'l. - Shaft:	
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
Remote Transmitter:	Options Available: Models GA500 & GX500

* Hall Effect Sensor requires dedicated power source.

GPI

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:	136.3 PPG / 36 PPL
Double Pickup:	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
Recommended Strainer Size:	60 mesh
Shipping Weight (approx.):	
Aluminum:	4.9 lbs. (2.2 kg) - Pulse
	6.6 lbs. (2.9 kg) - 150# ANSI Flange
Stainless 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

* Hall Effect Sensor requires dedicated power source.

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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% OF READING

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

GPI® — *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

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
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:	60 mesh
Shipping Weight (approx.):	
Aluminum:	10.0 lbs. (4.5 kg) - Pulse
	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
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

* Hall Effect Sensor requires dedicated power source.

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 wear-able 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
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
Recommended Strainer Size:	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

GPI

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.

GM020 - 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:	
PPS Rotors:	176°F / 80°C
SS Rotors:	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:	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 46.3 lbs. (2.1 kg) - 150# ANSI Flange
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

* Hall Effect Sensor requires dedicated power source.

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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% OF READING

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 wear-able 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:	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:	17.1 lbs. (7.7 kg) - Mechanical
	20.1 lbs. (9.1 kg) - 150# ANSI Flange
Stainless Steel:	46.3 lbs. (2.1 kg) - 150# ANSI Flange

A1 Commercial Grade Meters

Commercial Grade Meters are designed as self-contained, battery powered units. These indicating meters come in Aluminum or Nylon only. A1 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.

1) 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.

Display Adapter Kit

GPI Electronics Programmer

GPI

A1 Series Meter Numbering Reference

Product Identifier

A1 = Commercial Grade Electronic Digital Meter

Electronic Choice

09 = 2 Totals (1 Resettable, 1 Cumulative), Factory Calibration in Gallons and Litres, 2 User Calibrations and Flowrate

XX = No Computer

Calibration

GM = Gallons / Minute (NPT only)
LM = Litres / Minute (ISO only)
XX = No Computer

Turbine Material & Size

A025 = Aluminum – Low Flow
A100 = Aluminum – 1 inch
A200 = Aluminum – 2 inch
N025 = Nylon – Low Flow
N100 = Nylon – 1 inch
X### = No Turbine *

Fitting Type

N = NPT (Female)
I = ISO (Female)
B = BSPP (Female) - available on A025 and A100 turbines only
X = No Turbine

Packaging

A1 = Standard Low Flow – 1 inch
A2 = Standard – 2 inch
B1 = Low Flow – 1 inch Turbine Only
B2 = 2 inch Turbine Only
B3 = Computer Only
C1 = Generic Low Flow – 1 inch
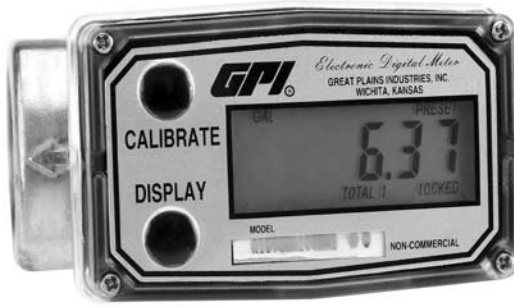**C2** = Generic – 2 inch
C3 = Generic Computer Only

A1 + **09** + **LM** + **N100** + **N** + **A1**   ◄——— (Sample Model Number)

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

BUY SMART . BUY VALUE . BUY **GPI**

GPI Commercial Grade Meters are identified by an A1 prefix. Commercial Grade Meters are packaged as a self-contained unit. Select this meter when you need an accurate, basic meter. GPI Commercial Grade Meters come in Aluminum and Nylon.

Choose one of three sizes of Aluminum meters for petroleum products. Use the Nylon meters for water or non-aggressive chemicals.

Aluminum

Nylon

ACCURACY: ± 1.5% OF READING
(on models A100, A200 and N100)

APPROVALS

| FM APPROVED | c UL | CE | Ex | NEMA 4 | ATEX | IP44 |

Select Your Fitting Size:

Aluminum			Nylon	
Low Flow	1 inch	2 inch	Low Flow	1 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.

A1 Commercial Grade Meters

	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:	-40°F to +250°F (-40°C to +121°C)	-40°F to +250°F (-40°C to +121°C)	-40°F to +250°F (-40°C to +121°C)	-40°F to +250°F (-40°C to +121°C)	-40°F to +250°F (-40°C to +121°C)
with Computer:	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)	+14°F to +140°F (-10°C to +60°C)
Wetted Material - Housing:	Aluminum	Aluminum	Aluminum	Nylon	Nylon
Bearings:	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Shaft:	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide
Rotor:	Nylon	Nylon	Nylon	Nylon	Nylon
Signal Generators:	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Rings:	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	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)	09 Computer (See page 58)	09 Computer (See page 58)	09 Computer (See page 58)	09 Computer (See page 58)

* Accuracy can vary up to ± 5% depending on installation and fluid type.
Field Calibration is recommended for best accuracy.

BUY SMART . BUY VALUE . BUY GPI

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

Standard Remote Kit Assembly Installed

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 A1 2" meter. Order 113275-1.

Features and Benefits:

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

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

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

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 dust-cover assembly and 10 ft. of cable; it also requires a 09 Computer.

Features and Benefits:

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

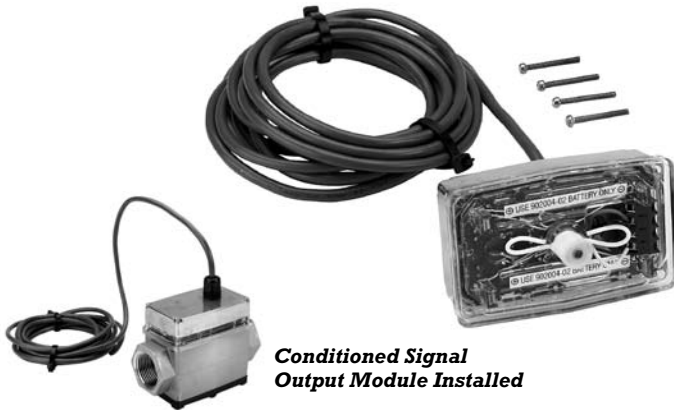| SPECIFICATIONS	
Magnetic Pickup:	1.3 k Ohm, 90 mH
Signal Type:	Sine Wave
Voltage:	Peak to Peak 10 mV to 500 mV
Frequency:	11 to 750 Hz
Cable:	10 ft. (3 m), 2-conductor shielded, Belden #9501

APPROVALS

FM APPROVED

GPI | *A1 Meter Modules*

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

*Conditioned Signal
Output Module Installed*

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 self-powered 6-volt Square Wave signal.
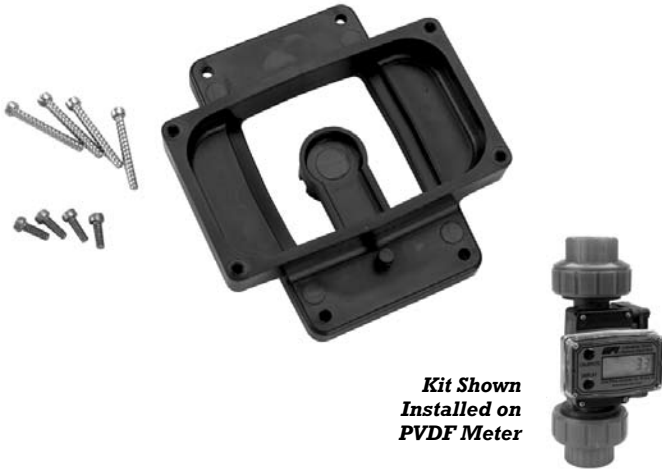
Features and Benefits:

✓ 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.

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

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.

Kit Shown Installed on PVDF Meter

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).

Economy Electronic Digital Meters

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.

Model No.
LM50P

Model No.
LM50D

new

Model No.
LM50M

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-to-read display. All meters are designed with oval rotors for optimum accuracy.

Features and Benefits:

✓ Extremely accurate.

✓ Dependable performance.

✓ Reliable, trouble-free operation.

✓ Total and Flowrate.

LM50P - SPECIFICATIONS

Construction:	Aluminum
Wetted Components:	Acetal, Aluminum, Nitril and Steel
Connections:	1/2 inch NPT or BSPT (Female)
K-Factor:	424 PPG / 112 PPL
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
Operating Temperature:	+23°F to +131°F (-5°C to +55°C)
Model Numbers:	LM50PB (Lube Meter 1/2" BSPT) LM50PN (Lube Meter 1/2" NPT)

LM50D - SPECIFICATIONS

Construction:	Aluminum
Wetted Components:	Acetal, Aluminum, Nitril and Steel
Connections:	1/2 inch NPT or BSPT (Female)
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
Operating Temperature:	+23°F to +131°F (-5°C to +55°C)
Battery:	Two AAA Alkaline batteries
Display:	6 digit; Shows Batch, Reset Total, Non-Reset Total and Rate of Flow
Display Units:	User selectable (gallons, litres, pints or quarts)
Model Numbers:	LM50DB (Lube Meter with Display 1/2" BSPT) LM50DN (Lube Meter with Display 1/2" NPT)

LM50M - SPECIFICATIONS

Construction:	Aluminum
Wetted Components:	Acetal, Aluminum, Nitril and Steel
Connections:	1/2 inch NPT or BSPT (Female)
Flow Range:	0.26 - 7.8 GPM (1 - 30 LPM) @ 5 - 1,000 cps
Accuracy:	± 1% of reading
Max. Working Pressure:	1,500 PSI / 103.5 BAR
Operating Temperature:	+14°F to +131°F (-10°C to +55°C)
Model Numbers:	LM50MNG (Mechanical Lube Meter 1/2" NPT fitting. Calibrated in gallons.) LM50MNL (Mechanical Lube Meter 1/2" NPT fitting. Calibrated in litres.) LM50MBL (Mechanical Lube Meter 1/2" BSPT fitting. Calibrated in litres.) LM50MBQ (Mechanical Lube Meter 1/2" BSPT fitting. Calibrated in quarts.)

GPI

Economy Electronic Digital Meters

TM Series Water Meter

ACCURACY: ±3.0% OF READING

TM Meter with Computer Display

new

TM Series Meter with 90° Adapter (sold separately)

TM Digital Pulse Meter

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.

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 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.

01N SERIES – 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

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GPI

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.

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 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.

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

CE

BUY SMART . BUY VALUE . BUY GPI

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.

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	A1 Commerical Grade Meters	Economy Meters
SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5
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 Display	GA Series Electronics	GG Series Electronics	GX Series Electronics	SC Series Electronics	Wireless System
09 Electronics	4-20 mA Output Without Display	Pulse Output With Display	4-20 mA Output With Display	Scaled Pulse Output	Transmits Signal To Receiver Unit

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.

G2 Wireless Transmitter & Receiver

wireless
FLOW TRANSMITTER

APPROVED FOR USE IN THE U.S. AND CANADA

Meter sold separately

Part No.
12530001

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.

Features and Benefits:

✓ Simple to use.

✓ Affordable wireless system.

✓ Battery powered.

✓ Retro fits GPI meters.

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

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

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

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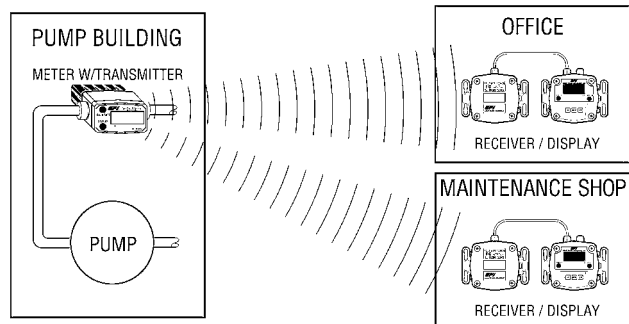
Choose the 09 Computer for local display on G2 Series Turbine Meters. Commonly used features are preprogrammed in the Standard 09 Computer Display. End-users can enable additional features by using a password available from the factory or on the GPI web site. The 09 configuration provides a very high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

Local Display for Turbine Meter

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.

09 COMPUTER – SPECIFICATIONS	
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
CSA®   CE   ATEX

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.

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

ACCURACY: ± 0.1% OF READING

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	
	C E

BUY SMART. BUY VALUE. BUY *GPI*

Display With 4-20 mA Output

GX510
Local
Mount

GX500
Remote
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.

GX500 / GX510 – 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
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

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

CE

Scaled Pulse Output

SC510 Local Mount

SC500 Remote Mount

ACCURACY: ± 0.1% OF READING

The GPI Scaled Pulse Module is a switch-programmable 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
Operating Temperature:	-40°F to +185°F (-40°C to +85°C)
Cable:	*Remote:* 20 ft., 3-conductor, tinned drain wire, 22 AWG, PVC jacket .212 dia. Ref. Belden 9363. *Local:* No cable provided
Mechanical Connections:	*Remote:* Wall or pipe mountable with standard U-bolts. *Local:* Unit is mounted to meter body, 1" NPT.
Electrical Connections:	*Remote:* Two strain relief ports *Local:* One strain relief port; one threaded plug

APPROVALS

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GPI | *Displays & Output Instruments*

R700 Explosion Proof 4-20 mA Transmitter with Display

R700 Remote Model

R700 Local Model

The R700 4-20 mA Transmitter is a loop powered transmitter with simultaneous Rate & Total indicator. The R700 features an explosion proof enclosure for hazardous location use. It also features 20 point linearization.

R700-L   Local Mount
R700-R   Remote Mount

R700 – SPECIFICATIONS	
Power Supply:	8.5-30 VDC
Accuracy:	0.01% Reading ± 1 Count
Operating Temperature:	-4°F to +158°F (-20°C to +70°C)
Output:	4-20 mA, Isolated from Ground
Display:	5-digit Rate; 8-digit Totalizer

ENCLOSURE APPROVALS

FM APPROVED   CSA   CE   NEMA 4X   c UL CLASSIFIED

Features and Benefits:

✓ Magnetic Pickup Input, Contact Closure Input, DC Pulse Input.

✓ 20 point linearization.

R800 Explosion Proof Totalizer & Rate Indicator

R800 Remote Model

R800 Local Model

The R800 is a battery powered Totalizer & Rate Indicator. Both Local and Remote models are available. The R800 features an explosion proof enclosure for hazardous location use. It also features 20 point linearization.

R800-LBAT   Local Mount
R800-RBAT   Remote Mount

R800 – SPECIFICATIONS	
Power Supply:	One C Size Lithium Battery Pack
Accuracy:	0.01% Reading ± 1 Count
Operating Temperature:	-4°F to +158°F (-20°C to +70°C)
Pulse Output:	Isolated Photomos Relay
Display:	5-digit Rate; 8-digit Totalizer

ENCLOSURE APPROVALS

FM APPROVED   CSA   CE   NEMA 4X   c UL CLASSIFIED

Features and Benefits:

✓ Magnetic Pickup Input, Contact Closure Input, DC Pulse Input.

✓ 20 point linearization.

BUY SMART . BUY VALUE . BUY GPI

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.

Features and Benefits:

✓ Separate scaling factors for A & B inputs.

✓ Separate add/subtract simultaneous inputs.
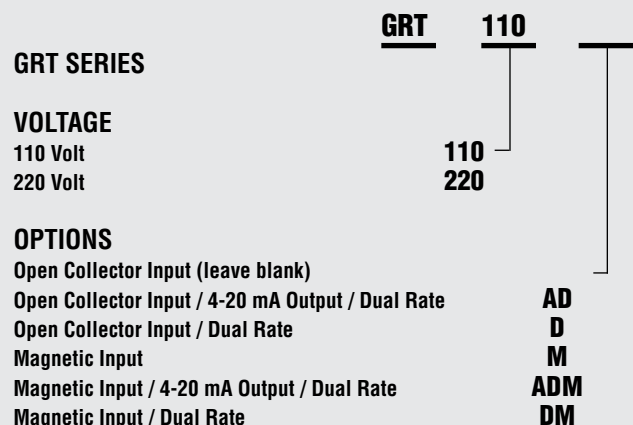
✓ Two Relays.

✓ 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

$C\epsilon$

GRT MODEL NUMBERING SYSTEM

GRT   110 ___

GRT SERIES

VOLTAGE
110 Volt	**110**
220 Volt	**220**

OPTIONS
Open Collector Input (leave blank)	
Open Collector Input / 4-20 mA Output / Dual Rate	**AD**
Open Collector Input / Dual Rate	**D**
Magnetic Input	**M**
Magnetic Input / 4-20 mA Output / Dual Rate	**ADM**
Magnetic Input / Dual Rate	**DM**

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

BUY SMART . BUY VALUE . BUY *GPI*

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

new

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.

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.
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:	GBM110, GBM110-M, GBM220 and GBM220-M

NOTE: Does not accept Sine Wave pulse.

APPROVALS

CE

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.

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.
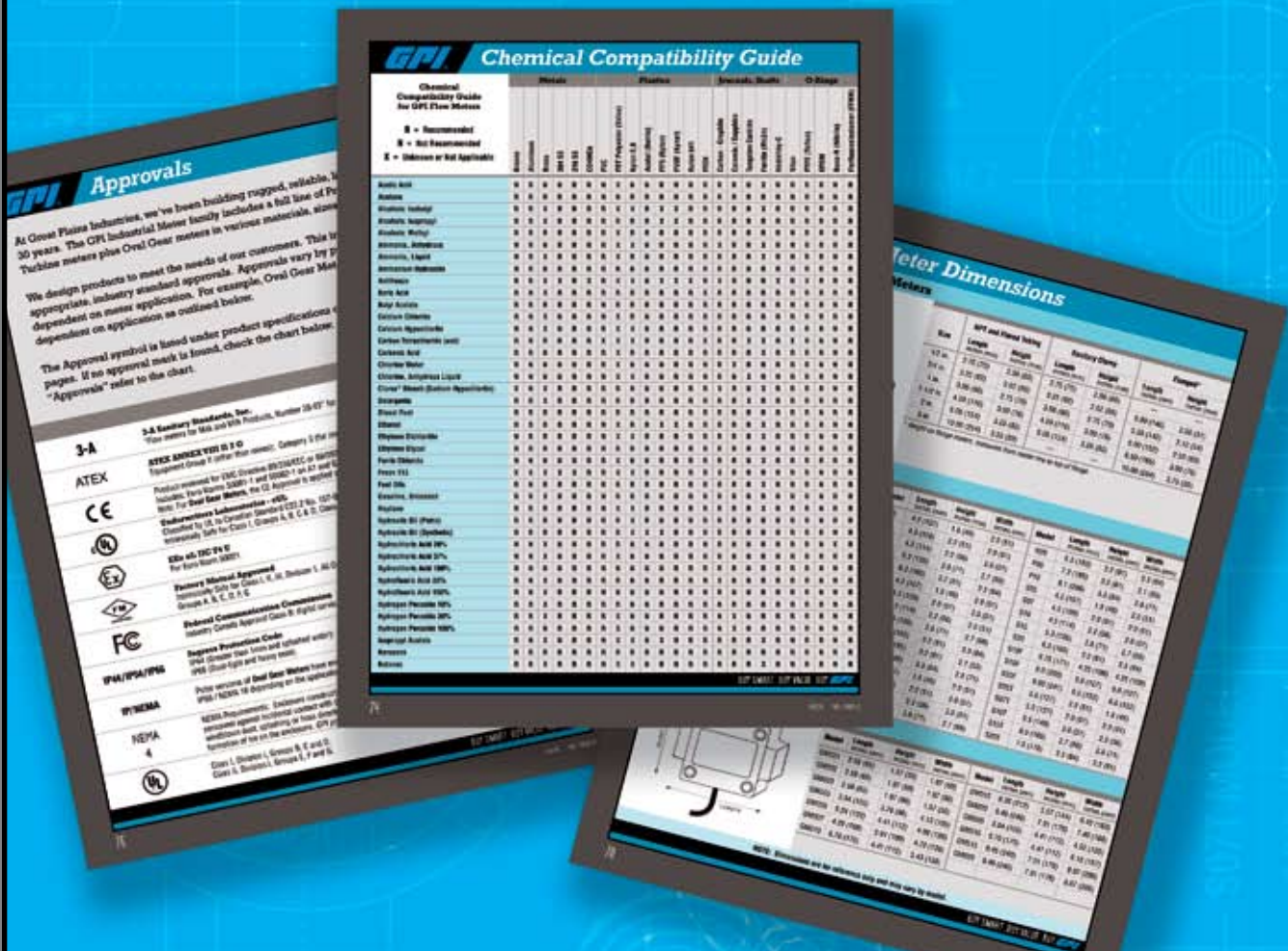
Liquid Viscosities

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
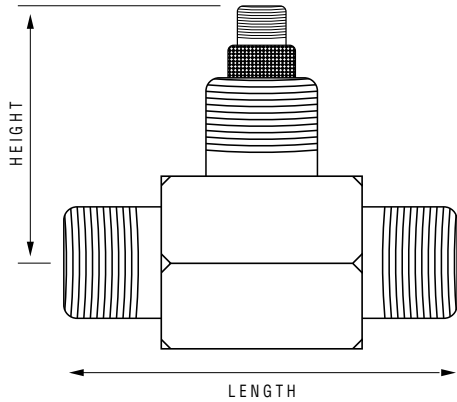
| Size	NPT and Flared Tubing		Sanitary Clamp		Flanged*	
	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)
1/2 in.	2.75 (70)	2.56 (65)	2.75 (70)	2.56 (65)	—	—
3/4 in.	3.25 (82)	2.62 (66)	3.25 (82)	2.62 (66)	5.50 (140)	2.00 (51)
1 in.	3.56 (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
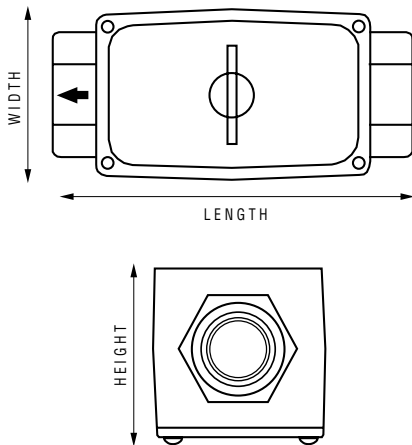
Model	Length inches (mm)	Height inches (mm)	Width inches (mm)	Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
A05	4.2 (107)	1.8 (46)	2.0 (51)	H20	6.3 (160)	3.2 (81)	3.3 (84)
A07	4.3 (109)	2.0 (51)	2.0 (51)	P05	7.3 (185)	3.2 (81)	2.1 (53)
A10	4.5 (114)	2.2 (56)	2.0 (51)	P10	8.1 (206)	3.3 (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
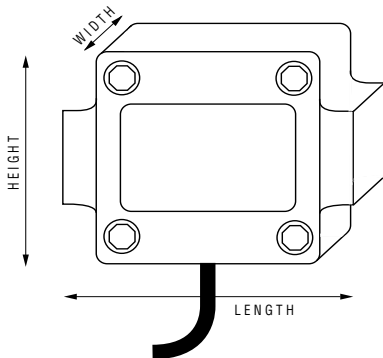
Model	Length inches (mm)	Height inches (mm)	Width inches (mm)	Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
GM001	2.58 (65)	1.97 (50)	1.97 (50)	GM015	8.35 (212)	5.67 (144)	6.42 (163)
GM002	2.58 (65)	1.97 (50)	1.97 (50)	GM020	9.45 (240)	7.01 (178)	7.40 (188)
GM003	2.58 (65)	1.97 (50)	1.97 (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.

A1 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
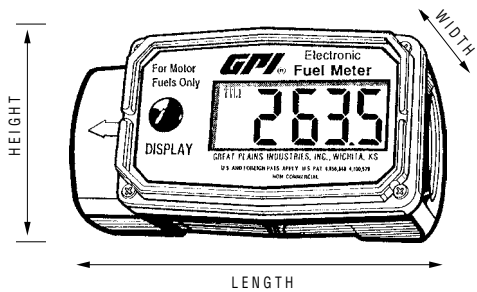
Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
01A	4.0 (102)	2.5 (63)	2.0 (51)
01N	4.0 (102)	2.5 (63)	2.0 (51)
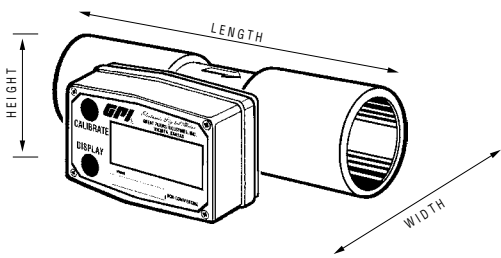
Model	Length* inches (mm)	Height inches (mm)	Width inches (mm)
TM050	4.3 (109)	2.5 (63)	2.0 (51)
TM075	5.3 (135)	2.7 (68)	2.0 (51)
TM100	6.0 (152)	3.0 (76)	2.0 (51)
TM150	7.0 (178)	3.6 (91)	2.3 (58)
TM200	7.5 (190)	4.1 (104)	2.8 (71)

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

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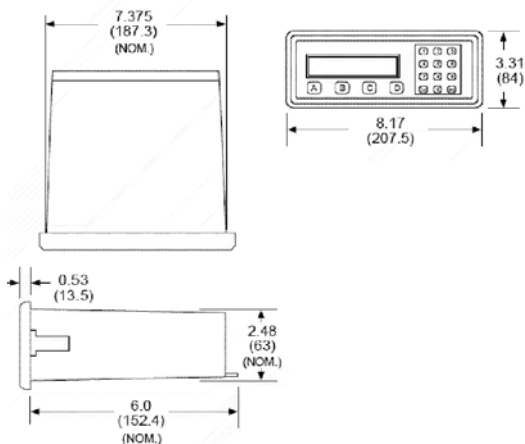
Model	Depth inches (mm)	Height inches (mm)	Width inches (mm)
GBM or GBT	6.53 (165)	3.31 (84)	8.17 (207)

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

BUY SMART . BUY VALUE . BUY

Meter Dimensions

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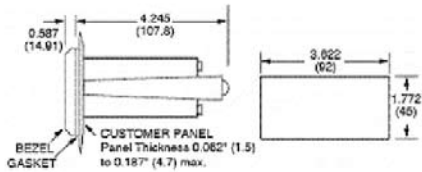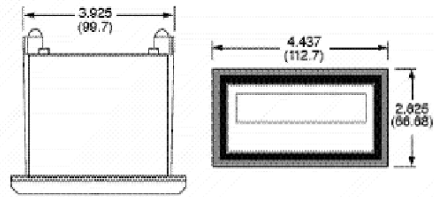
Model	Depth inches (mm)	Height inches (mm)	Width inches (mm)
GRT	4.8 (122)	2.8 (71)	4.4 (112)

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

Local Model
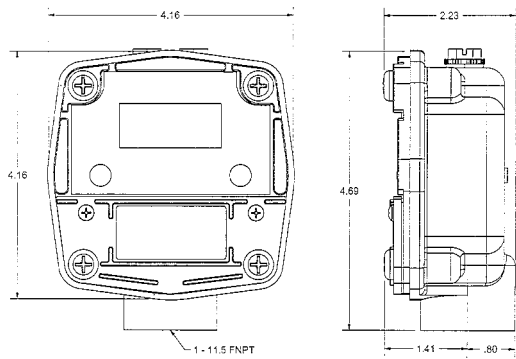
Depth inches (mm)	Height inches (mm)	Width inches (mm)
2.23 (57)	4.69 (119)	4.16 (106)

Remote Model
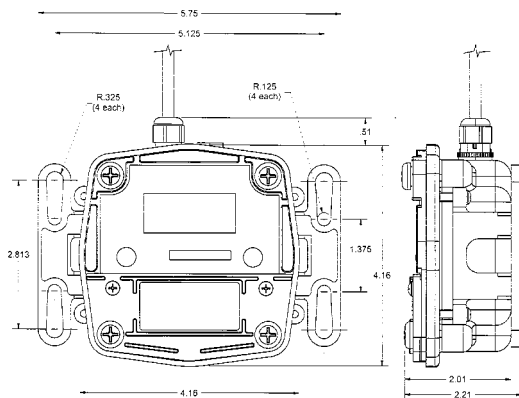
Depth * inches (mm)	Height † inches (mm)	Width * inches (mm)
2.21 (56)	4.67 (119)	5.75 (146)

* Includes Mounting Bracket
† Includes Strain Relief

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

BUY SMART . BUY VALUE . BUY GPI

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.
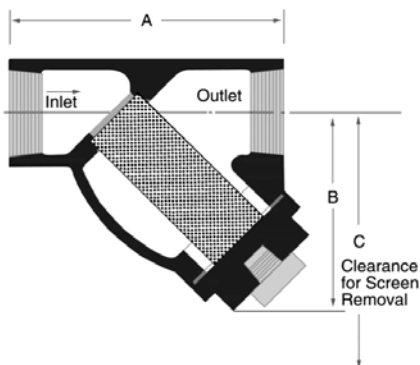
Y STRAINERS – SPECIFICATIONS

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 NUMBERS & DIMENSIONS

Part Number	Size	A	B	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"

BUY SMART. BUY VALUE. BUY **GPI**

Chemical Compatibility Guide

Chemical Compatibility Guide for GPI Flowmeters

R = Recommended
N = Not Recommended
X = Unknown or Not Applicable

	Metals						Plastics								Journals, Shafts					O-Rings				
	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 - Graphite	Ceramic / Sapphire	Tungsten Carbide	Ferrite (MnZn)	Hastelloy-C	FKM/Fluorocarbon (Viton)	PTFE (Teflon)	EPDM	Buna-N (Nitrile)	Perfluoroelastomer (FFKM)
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	R	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	X	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	R	R	R	N	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	X	R	R	X	R	N	R	R	N	R
Ammonium Hydroxide	N	R	N	R	R	R	R	R	N	N	R	R	R	R	R	R	N	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	R	R	R	N	R
Calcium Chloride	R	N	X	N	R	R	N	X	R	R	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	X	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	N	R	N	R	R	N	R	N	X	N	N	R	R	N	R	R
Clorox® Bleach (Sodium Hypochlorite)	X	N	X	R	R	R	R	N	N	N	R	R	R	R	X	R	N	X	R	R	R	R	N	R
Detergents	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	R	R	R	R	R	R	N	X	X	R	R	X	X	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	N	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Freon 113	X	X	X	X	X	R	R	X	X	R	R	R	R	R	X	R	R	R	R	R	R	N	R	R
Fuel Oils (#1 and #2)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	X	R	R	R	N	R	R
Gasoline, Unleaded	R	R	X	R	R	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R
Heptane	R	R	R	R	R	R	N	X	R	R	R	R	R	R	R	R	R	X	R	R	R	N	R	R
Hydraulic Oil (Petro)	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R	R	R	R	R	N	R	R
Hydraulic Oil (Synthetic)	R	R	R	R	R	R	R	R	X	X	X	R	R	R	R	R	R	R	R	R	R	R	N	R
Hydrochloric Acid 20%	N	N	X	N	R	R	R	R	N	N	R	R	R	N	R	N	N	R	R	R	R	R	N	X
Hydrochloric Acid 37%	N	N	X	N	N	R	R	X	N	N	R	R	R	N	R	N	R	R	R	R	R	R	R	R
Hydrochloric Acid 100%	N	N	N	N	N	R	N	N	N	N	N	R	R	R	R	N	R	R	R	R	R	N	N	R
Hydrofluoric Acid 20%	R	N	X	N	N	R	R	N	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	R	R	R	N	R	N	N	R	R	R	R	N	N	R
Hydrogen Peroxide 10%	R	R	X	R	R	R	R	N	R	N	R	R	R	R	N	R	R	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	R	R	R	R	R	R	N	R
Hydrogen Peroxide 100%	R	R	X	R	R	R	R	X	N	N	R	R	R	R	N	X	R	R	R	R	R	R	N	R
Isopropyl Acetate	R	R	X	R	R	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	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

Chemical Compatibility Guide

Chemical Compatibility Guide for GPI Flowmeters

R = Recommended
N = Not Recommended
X = Unknown or Not Applicable

Chemical	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 - Graphite	Ceramic / Sapphire	Tungsten Carbide	Ferrite (MnZn)	Hastelloy-C	FKM/Fluorocarbon (Viton)	PTFE (Teflon)	EPDM	Buna-N (Nitrile)	Perfluoroelastomer (FFKM)
	Metals						**Plastics**								**Journals, Shafts**					**O-Rings**				
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	R	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	R	R	R
Nitrating Acid (> 15% H2SO4)	X	N	X	N	N	R	N	X	N	N	X	N	R	N	X	R	N	X	X	R	R	N	R	R
Nitric Acid (5-10%)	R	R	N	R	R	R	R	X	R	N	R	R	R	R	N	R	N	N	X	R	R	N	R	R
Nitric Acid (50%)	R	N	N	R	R	R	R	X	N	N	R	R	R	R	N	R	N	N	N	R	R	N	N	R
Nitric Acid (Concentrated)	R	N	N	R	R	R	R	N	R	N	R	R	R	R	N	N	N	N	N	R	R	N	N	R
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	X	R	R	R	R	N	R
Oils: Hydraulic Oil (Petro)	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R	R	R	X	R	R	R	R	N	R
Oils: Mineral	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	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	R	R	R
Phosphoric Acid (< 40%)	R	N	N	N	N	R	R	X	N	R	R	R	R	R	R	R	N	N	N	R	R	R	R	R
Phosphoric Acid (> 40%)	R	N	N	N	N	R	R	X	N	R	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Potassium Chloride	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	N	R	R	R	R	R
Potassium Hydroxide (Caustic Potash)	N	N	N	R	R	R	R	N	R	N	R	R	R	R	N	N	N	N	N	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	R	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	R	X	X	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	R	R	R	R	R	R	R	R
Sea Water	R	R	N	N	N	R	R	R	R	R	R	R	R	R	R	R	R	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	X	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Sodium Chloride	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R
Sodium Hydroxide (20%)	R	N	R	R	R	R	R	X	R	R	R	R	R	R	R	N	R	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	R	R	R	R	R	R	R	N	R	R	R	R	N	R	R
Sodium Hypochlorite (< 20%)	N	N	R	N	N	R	R	X	N	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R
Sodium Hypochlorite (100%)	N	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	R	R	N	R	R	R	R	R
Sulfuric Acid (< 10%)	R	N	X	N	R	R	R	X	N	N	R	R	R	R	R	R	R	N	X	R	R	R	R	R
Sulfuric Acid (75-100%)	R	N	X	N	N	R	R	X	N	X	R	R	R	N	R	N	R	N	N	R	R	N	N	R
Toluene (Toluol)	R	R	R	R	R	R	N	R	N	N	R	R	R	R	R	R	R	R	N	R	R	N	N	R
Trichloroethylene	R	N	X	R	R	N	N	X	N	N	R	R	R	R	R	X	R	R	R	R	R	N	N	R
Vinegar	R	N	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R
Water, Deionized	X	N	R	R	R	R	R	X	R	R	R	R	R	X	R	R	X	R	R	R	R	R	R	R
Water, Distilled	R	N	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Water, Salt	R	N	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R
Xylene	R	R	R	R	R	R	N	N	R	R	R	R	R	R	R	R	R	X	R	R	R	N	N	R

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	**3-A Sanitary Standards, Inc.** "Flowmeters for Milk and Milk Products, Number 28-03" for GSCPS Models and L Option Meters.
ATEX	**ATEX ANNEX VIII II 3 G** Equipment Group II (other than mines); Category 3 (for zone 2); G (for gases, vapors and mist).
C€	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 **Oval Gear Meters**, the CE Approval is applied when meter is part of a system.
c(UL)	**Underwriters Laboratories - cUL** Classified by UL to Canadian Standard C22.2 No. 157-92 and Canadian Electrical Code, Part 1 as Intrinsically Safe for Class I, Groups A, B, C & D; Class II, Groups E, F & G and Class III.
⟨Ex⟩	**EEx nL IIC T4 U** Per Euro Norm 50021.
FM APPROVED	**Factory Mutual Approved** 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.
FC	**Federal Communication Commission** Industry Canada Approval Class B; digital service, part 15 of FCC Rules.
IP44 / IP54/IP66	**Ingress Protection Code** 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 **Oval Gear Meters** 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. *GPI products are tested to NEMA requirements.*
(UL)	Class I, Division I, Groups B, C and D. Class II, Division I, Groups E, F and G.

GPI
Meter Application 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.

Fax: 316-686-6746
Phone: 316-686-7361
Toll Free: 888-996-3837

Company: _____   Contact: _____

Address: _____   Phone: _____

City/State/Zip: _____   Fax: _____

Describe Metering Problem: _____
_____

Fluid: _____   Viscosity: _____ @ _____ °F

Specific Gravity: _____   Density: _____

Particulate: No _____   Yes _____   Size _____

Air Elimination Req'd: No _____   Yes _____

Pulsating Flow: No _____   Yes _____

Flowrate (GPM):   Min. _____   Nom. _____   Max. _____

Line Size: _____

Temperature (° F):   Min. _____   Nom. _____   Max. _____

Pressure (psiG):   Min. _____   Nom. _____   Max. _____

Pressure Drop: Max. _____

Req'd Accuracy: _____ % of reading   Repeatability: _____

SKETCH BASIC APPLICATION

Approved Wetted Materials: _____

Unusual Fluid Properties: _____

Display: No _____   Yes _____   Local _____   Remote _____   Both _____

Output: No _____   Yes _____   Pulse _____   Current _____

Approvals Req'd: No _____   Yes _____   List _____

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

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"A Great Plains Ventures Subsidiary."
www.gpi.net