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.

Authorized Distributor:

Clark Solutions
10 Brent Drive
Hudson, MA 01749

Toll Free: 800-253-2497
Tel: 978-568-3400
Fax: 978-568-0060
e-mail: sales@clarksol.com
www.clarksol.com

BUILD-YOUR-OWN G SERIES METER

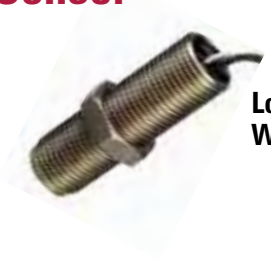
1) Select Your Turbine

Threaded Models

Sanitary Clamp Models

Flange Models

2) Select Your Sensor



Local Pickup Wire Lead

3) Select Your Electronic Choice

For further details and selections see the Electronics Section.

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.

G SERIES METER NUMBER REFERENCE

USE THIS AS A GUIDE – SIZES VARY BY FITTING TYPE.
(Does not apply to model GSCPS - 3A Meters)

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 page 15.

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 = 1-1/2 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

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

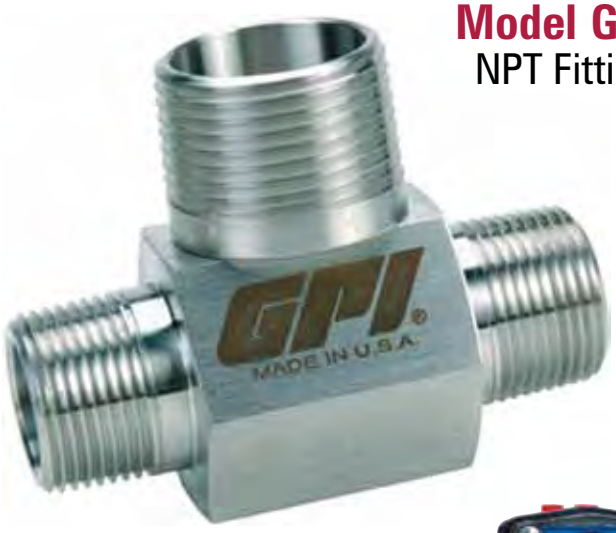
Electronic Choice (Local)*

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 Electronics - Turbine Body Only

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

* Electronic Choice not available on all models.

GBT, GIT & GNT PRECISION METERS



Model GNT
NPT Fitting

GNT shown here with Local Display

For complete part number, see "Number Reference" chart on page 3.

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: BSPP * (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:		-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					
Calibration Report		Comes standard with G Series meters.					
		N.I.S.T. – Certification available.					

APPROVALS

CE

* Requires High Temp Pickup.
* ISO 228-1 designation is G.

GBP, GIP & GNP PRECISION METERS

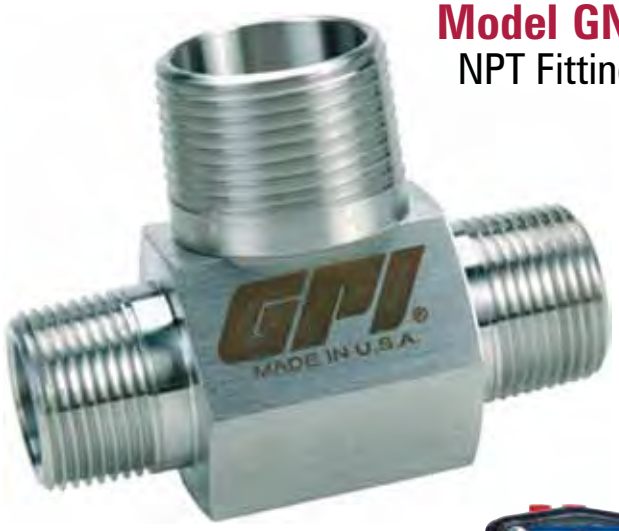
SPECIFICATIONS

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: BSPP* (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:		-450° F to +800° F (-268° C to +426° 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				
Calibration Report		Comes standard with G Series meters.				
		N.I.S.T. – Certification available.				

APPROVALS

CE

* 1/2 in. (050) requires RF Pickup.
* ISO 228-1 designation is G.



Model GNP
NPT Fitting

GNP shown here with Local Display

For complete part number, see “Number Reference” chart on page 3.

ACCURACY: ± 0.5%

Select Your Meter Size:

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

ANSI FLANGE PRECISION METERS

Model GFT
150# RF ANSI Flange Fitting

GFT shown here with GX510

For complete part number, see "Number Reference" chart on page 3.

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)

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:		-450° F to +800° F (-268° C to +426° C)				
For SS/PTFE:		-100° F to +185° F (-74° C to +85° 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				
Calibration Report		Comes standard with G Series meters. N.I.S.T. – Certification available.				

APPROVALS

CE

* Requires High Temp Pickup.

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
Calibration Report	Comes standard with G Series meters.
	N.I.S.T. – Certification available.

APPROVALS

GSCPS & "L" Option Meters carry a

Sanitary Rating.
Flowmeters for milk and milk products, Number 28-04.

CIP CE SIP

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.

Model GSCPS
Standard Sanitary Clamp

Model GSCPS
Low Profile Sanitary Clamp

For complete part number, see "Number Reference" chart on page 3.

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

PRECISION METERS **SANITARY CLAMP**

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

For complete part number, see "Number Reference" chart on page 3.

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)

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	
Calibration Report	Comes standard with G Series meters.	
	N.I.S.T. – Certification available.	

† GSCP-050 requires RF Pickup.

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.

1/2 INCH METER SIZES

Description	Part Number	Sensor Power	Temperature Range	Cable Type	Connector Required	Cable Length	Thread Size	Magnetic Pickups work with… Local	Remote	Battery Pwr Display
Wire Lead Low Drag	81006001	None	-100° F - +250° F (-73° C - +121° C)	None	None	12 in.	5/8" - 18	X		Yes
Low Drag	81006000	None	-100° F - +250° F (-73° C - +121° 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

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

ENCLOSURES – PART NUMBERS

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

G SERIES PRECISION **ACCESSORIES**

Connectors

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

CONNECTORS – PART NUMBERS

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.

CABLE ASSEMBLY – PART NUMBERS

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

GG500/GG510/5 SERIES ELECTRONIC CHOICE

Display With Pulse Output

GG500
Remote Mount

GG510
Local Mount

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

ACCURACY: ±0.1% READING

Features and Benefits:

- ✓ Provides communication with process control equipment.
- ✓ Works with G Series, G2 Turbine Meters and GM Oval Gear Meters.
- ✓ 2 Totals (Batch = Resettable, Cumulative = Non-Resettable); Rate of Flow. Factory calibrated in gallons and litres. Field calibratable. Allows user calibration. Includes non-volatile totals.
- ✓ 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)
Calibratable:	K-factor Entry

GX500/GX510/6 SERIES ELECTRONIC CHOICE

GX500/GX510 – SPECIFICATIONS

Accuracy:	± 0.1% of reading
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)
Calibratable:	K-factor Entry

Display With 4-20 mA Output

GX500
Remote Mount

GX510
Local Mount

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

ACCURACY: ±0.1% READING

Features and Benefits:

- ✓ Provides communication with process control equipment.
- ✓ Works with G Series, G2 Turbine Meters and GM Oval Gear Meters.
- ✓ 2 Totals (Batch = Resettable, Cumulative = Non-Resettable); Rate of Flow. Factory calibrated in gallons and litres. Field calibratable. Allows user calibration. Includes non-volatile totals.
- ✓ 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.
- ✓ Easily mounted on pipe or wall.

GA500/GA510/7 SERIES ELECTRONIC CHOICE

4-20 mA Output

GA500
Remote Mount

GA510
Local Mount

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

ACCURACY: ±0.1% READING

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.
- ✓ Easily mounted on pipe or wall.

GA500/GA510 – SPECIFICATIONS

Accuracy:	± 0.1% of reading
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)

SC500/SC510 – SPECIFICATIONS

Accuracy:	± 0.1% of reading
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

Scaled Pulse Output

SC500
Remote Mount

SC510
Local Mount

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.

ACCURACY: ±0.1% READING

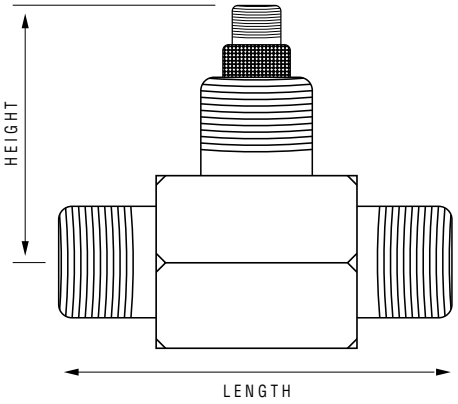
Features and Benefits:

- ✓ 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.

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)

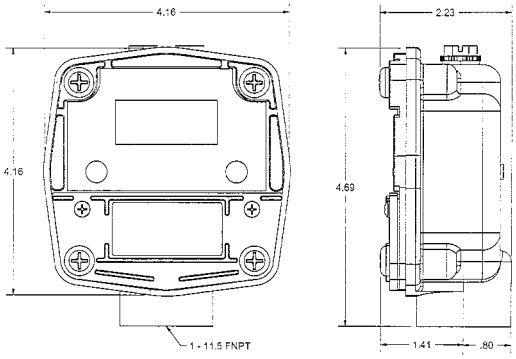
** Height on flange meters, measures from center line to top of flange.*



Electronic Choice - Local & Remote

(Dimensions can vary by model.)

Local Model



Length inches (mm)	Height inches (mm)	Width inches (mm)
2.23 (57)	4.69 (119)	4.16 (106)

Remote Model

Length* inches (mm)	Height † inches (mm)	Width* inches (mm)
2.21 (56)	4.67 (119)	5.75 (146)

* Includes Mounting Bracket
† Includes Strain Relief