FLOMEC®

Flowmeter Catalog

2016

GREAT PLAINS INDUSTRIES GPI®

Table of CONTENTS

NOTE: **Specifications may be subject to change without prior notice.**

INTRODUCING
OUR ALL-NEW

FLOMEC®

QSE Mag

ELECTROMAGNETIC FLOW METER

for Commercial and Industrial Applications

ENGINEERED TO DELIVER

Better Performance, Higher Quality and Lower Cost

- ***Low Investment and Operating Costs***
- ***Externally Powered Pulse-Output for use with or without FLOMEC 09 Electronics Display***
- ***Wide Turndown Ratio of 60:1***
- ***7 Line Sizes (1/2" to 4")***
- ***Noryl Flow Tube, Housing and Sleeve Material (210ºF)***
- ***+ .5% Accuracy of Reading***

FLOMEC®

QSE MAG Electromagnetic Flowmeters

Flange connections for 3" & 4" models.

QSE MAG FLOWMETER

The QSE Mag Series is a dependable highly accurate electromagnetic flowmeter designed for flow and usage monitoring in commercial applications.

The Noryl® housing and flow tube offer a lightweight, easy-to-install Mag Meter that is resistant to heat (210°F / 99°C) and compatible with many water-based liquid solutions.

ACCURACY: ±0.5% READING

Features and Benefits:

- ✓ Low investment and operating costs.
- ✓ Wide turndown ratio of 60:1
- ✓ Non-intrusive, no moving parts to wear out, maintenance, repair costs low and tolerates high flows without damage.
- ✓ The slightly modified bore permits unobstructed flow and minimizes flow disturbances and straight pipe requirements.
- ✓ 7 line sizes (1/2" to 4") ½", ¾", 1", 1-1/2", 2", 3", & 4".
- ✓ Housing ported with "Thermal Well Supports" for sensors (Energy Management).
- ✓ Compatible with GPI 09 Electronics Display or FLOMEC QSI I/O Board

Applications: Turf / Irrigation

- Agricultural Irrigation
- Turf Irrigation Systems
- Micro Irrigation Systems

Applications: Institutional

- Chilled water
- Domestic water (hot & cold)
- Energy sub-metering (BTU hot & cold)
- HVAC
- EMS (Energy Management Systems)
- BAS (Building Automation Systems
- Process (blow down, make up, boiler feed, etc.)

QSE MAG – SPECIFICATIONS

Design Type:	Electromagnetic
Fitting Size:	1/2" 3/4" 1" 1-1/2" 2" 3" 4"
Fitting Type:	NPT, BSP, ANSI Flanged, DIN Flanged 1/2" to 2" - NPT (Male), BSP (Male) (Rc Thread) 3" & 4" ANSI Flanged - Polymer Flange 3" & 4" ANSI Flanged - Steel Flange 3" & 4" DIN Flanged - Steel Flange
Pressure Rating:	150 PSI @ 73° F (10 Bar @ 23° C)
Power Supply:	Externally Powered
Voltage Supply (Min.):	12 VDC or VAC
Voltage Supply (Max.):	36 VDC or VAC
Consumption:	Max current consumption: (QSE with QSB): 75mA
	Max current consumption: (QSE with QSI): 150mA

Flow Range: Velocity - 0.25 to 15 FPS

1/2" (05)	0.15 - 10 GPM	0.56 - 38 LPM
3/4" (07)	0.3 - 20 GPM	1.13 - 76 LPM
1" (10)	0.6 - 40 GPM	2.27 - 151 LPM
1-1/2" (15)	1.2 - 80 GPM	4.54 - 303 LPM
2" (20)	2.25 - 150 GPM	8.5 - 568 LPM
3" (30)	4.5 - 300 GPM	17 - 1136 LPM
4" (40)	9 - 600 GPM	34 - 2271 LPM

***Accuracy (% of Reading):**	± 2%	± 0.5%
1/2" (05)	0.15 - 0.6 GPM / 0.56 - 2.27 LPM	0.61 - 10 GPM / 2.28 - 38 LPM
3/4" (07)	0.3 - 1.2 GPM / 0.56 - 4.54 LPM	1.21 - 20 GPM / 4.55 - 76 LPM
1" (10)	0.6 - 2.4 GPM / 2.27 - 9.08 LPM	2.41 - 40 GPM / 9.09 - 151 LPM
1-1/2" (15)	1.2 - 4.8 GPM / 4.54 - 18.17 LPM	4.81 - 80 GPM / 18.18 - 303 LPM
2" (20)	1.2 - 9.0 GPM / 8.5 - 34.07 LPM	9.01 - 150 GPM / 34.08 - 568 LPM
3" (30)	4.5 - 18.0 GPM / 17 - 68.14 LPM	18.01 - 300 GPM 68.15 - 1136 LPM
4" (40)	9 - 36.0 GPM / 34 - 136.28 LPM	36.01 - 600 GPM 136.29 - 2271 LPM

Operating Temperature:	**1/2"-2":**	32° F to 210° F (0° to 99° C)
	3"-4":	32° F to 180° F (0° to 82° C)
Ambient Temperature Range:		0° F to 140° F (-18° to 60° C)
Typical K-Factor:	**1/2":**	4,347 PPG (1158.5 PPL)
	3/4":	1,937 PPG (511.8 PPL)
	1":	1,089 PPG (287.7 PPL)
	1-1/2":	484.1 PPG (127.9 PPL)
	2":	400 PPG (105.7 PPL)
	3":	121 PPG (32.10 PPL)
	4":	68.1 PPG (18.0 PPL)
Wetted Materials:	**Body:**	Noryl®
	Electrodes:	316L Stainless Steel
	Seals:	NBR O-Rings
Frequency Range:	All sizes:	10 Hz Min - 1,000 Hz Max (with 09 Display) 10 Hz Min - 3,000 Hz Max (with Blind Pulse Out)
Calibration Report	Comes standard.	
	N.I.S.T. available.	

APPROVALS

NEMA 6P CE **IP68**

QSTAR Ultrasonic Flowmeters

These meters are available in two models:

- A portable for mobile sampling measurements
- A fixed for measuring tasks over an extended period of time and continuous measurements in fixed installations.

Both units use the proven and highly precise ultrasonic transit time difference method.

By employing state-of-the-art digital processors, these robust measurement flowmeters are extremely accurate and drift-free.

SPECIFICATIONS

Model:	QSTAR PORTABLE	QSTAR FIXED
Operation:	Intuitive via 8 main keys (Soft Keys), plain text display	Intuitive via 8 main keys (Soft Keys), plain text display
Languages:	English, Spanish and French	English, Spanish and French
Units:	Metric / US	Metric / US
Outputs:	2x 4-20 mA, 1x Relay, 1x MicroUSB 1x Pulse	2x 4-20 mA, 1x Pulse, 1x MicroUSB 1x Relay, RS232 (opt.)
Inputs:	2x PT100	2x PT100
Integrated Data Logger:	2 GB	N/A
Data Logged:	Measurement and totalizers	N/A
Data Format:	Can be exported into standard office programs	N/A
Memory Cycle:	Adjustable, 1 second to 24 hours	N/A
Power Supply:	Integrated rechargeable battery and 100-240V AC adapter	85-264VAC, 18-36VDC (opt.)
	Battery Duration: Approximately 5 hours	Power Consumption: 10 W
Protection Class:	IP40	IP65, Ex/ATEX (in preparation)
Housing:	Aluminium, PVC	PVC, wall-mounted
Dimensions:	10.4 x 7.5 x 2.7 in. (26.4 x 19 x 6.8 cm)	10.2 x 9.4 x 4.7 in. (25.9 x 23.9 x 11.9 cm)
Operating Temp:	-4° F to 140° F (-20° C to 60° C)	-4° F to 140° F (-20° C to 60° C)
Transducer Temp:	-40° F to 300° F (-40° C to 149° C)	-40° F to 300° F (-40° C to 149° C)
Weight:	3.3 lbs (1.5 kg)	2.9 lbs (1.3 kg)
Display:	QVGA (320x240), black and white, adjustable backlighting	QVGA (320x240), black and white, adjustable backlighting
Carrying Case:	20 x 16 x 16 (50.8 x 40.6 x 40.6 cm)	N/A

MEASUREMENT

Principle:	Ultrasonic transit time difference with AFC technology
Values Meas:	Flow, flow speed, heat flow
Totalizers:	Heat quantity, volume
Meas. Range:	+/- 98 ft/s (± 30 m/s)
Signal Damping:	0 - 100 sec (adjustable)
Diagnostic Functions:	Acoustic velocity, signal strength, SNR, signal quality, amplitude, energy Oscilloscope function allows graphical display and analysis of signals.

MEASUREMENT ACCURACY

Inner Diameter Ø	Range	Deviation
.39 - .98 in. (1.0 - 2.5 cm)	6.56-98.42 ft/s (2-30 m/s)	2.5% of reading
	0-6.56 ft/s (0-2 m/s)	± 0.16 ft/s (0.05 m/s)
.98-1.97 in. (2.5 - 5.0 cm)	6.56-98.42 ft/s (2-30 m/s)	1.5% of reading
	0-6.56 ft/s (0-2 m/s)	± 0.10 ft/s (0.03 m/s)
1.97-11.81 in. (5.0 - 30.0 cm)	6.56-98.42 ft/s (2-30 m/s)	1% of reading
	0-6.56 ft/s (0-2 m/s)	± 0.07 ft/s (0.02 m/s)
11.81-236.22 in. (30.0 - 600.0 cm)	3.28-98.42 ft/s (1-30 m/s)	1% of reading
	0-3.28 ft/s (0-1 m/s)	± 0.03 ft/s (0.01 m/s)
Repeatability for majority of applications is <0.2%		

MODEL NO.	DESCRIPTION
QME05	Ultrasonic Flowmeter (ENERGY-FIXED, .5 MHz) 8" - 240"
QME10	Ultrasonic Flowmeter (ENERGY-FIXED, 1 MHz) 1.5" - 16"
QME20	Ultrasonic Flowmeter (ENERGY-FIXED, 2 MHz) .5"- 4"
QMF05	Ultrasonic Flowmeter (FIXED, .5 MHz) 8" - 240"
QMF10	Ultrasonic Flowmeter (FIXED, 1 MHz) 1.5" - 16"
QMF20	Ultrasonic Flowmeter (FIXED, 2 MHz) .5" - 4"

MODEL NO.	DESCRIPTION
QMP05	Ultrasonic Flowmeter (PORTABLE, .5 MHz) 8" - 240"
QMP10	Ultrasonic Flowmeter (PORTABLE, 1 MHz) 1.5" - 16"
QMP20	Ultrasonic Flowmeter (PORTABLE, 2 MHz) .5" - 4"
QMF-PT100	Temperature Sensor Kit, FIXED (16 ft. / 4.87 m)
QMP-PT100	Temperature Sensor Kit, PORTABLE (16 ft. / 4.87 m)
QMS-WTG	Pipe Wall Thickness Gauge

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	
GA500	F Series
GG500	E Series
GX500	SC500

Local Models	
GA510	F Series
GG510	E Series
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.

Model GNT
NPT Fitting

GNT shown here with Local Display and Mag Pick-Up

For complete part number, see "Meter Number Reference" for this section.

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:		
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: PPG (PPL)	**1/2" (051)**	10,000 PPG / 2642 PPL
	3/4" (075)	3,750 PPG / 991 PPL
	3/4" (075E)	2,608 PPG / 689 PPL
	1" (100)	896 PPG / 237 PPL
	1-1/2" (150)	340 PPG / 90 PPL
	2" (200)	181 PPG / 48 PPL
	3" (300)	50 PPG / 13 PPL
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
Retaining Rings:		300 Series 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.

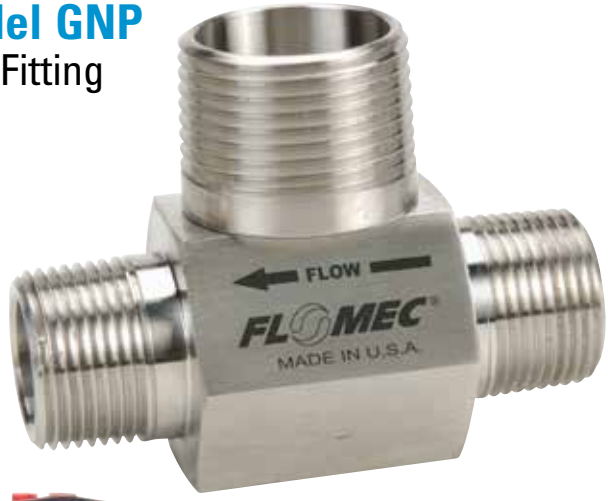
APPROVALS

CE

* Requires High Temp Pickup.
✢ ISO 228-1 designation is G.
♦ ISO 7-1 BSPT

GBP, GIP & GNP Precision Meters

Model GNP
NPT Fitting



GNP shown here with Local Display and Mag Pick-Up

For complete part number, see "Meter Number Reference" for this section.

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)

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:		-100° F to +185° F (-74° C to + 85° C)				
Typical K-Factor:	**1/2" (050)***	10,000 PPG / 2642 PPL				
	1/2" (051)	10,000 PPG / 2642 PPL				
	3/4" (075)	3,750 PPG / 991 PPL				
	3/4" (075E)	2,608 PPG / 689 PPL				
	1" (100)	896 PPG / 237 PPL				
	1-1/2" (150)	340 PPG / 90 PPL				
	2" (200)	181 PPG / 48 PPL				
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				
Retaining Rings:		300 Series 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.
♦ ISO 7-1 BSPT

Model GFT & GFP

150# RF ANSI Flange Fitting

GFT shown here with Local Display and Mag Pick-Up

For complete part number, see "Meter Number Reference" for this section.

ACCURACY: ± 0.5%

Select Your Meter Size:

3/4 inch
1 inch
1-1/2 inch
2 inch
3 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 SS/PTFE:		-100° F to +185° F (-74° C to +85° C)				
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:	**3/4" (075)**	3,750 PPG / 991 PPL				
PPG (PPL)	**3/4" (075E)**	2,608 PPG / 689 PPL				
	1" (100)	896 PPG / 237 PPL				
	1-1/2" (150)	340 PPG / 90 PPL				
	2" (200)	181 PPG / 48 PPL				
	3" (300)	50 PPG / 13 PPL				
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				
Retaining Rings:		300 Series 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				
Retaining Rings:		300 Series 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.

SANITARY CLAMP Precision Meters

Model GSCPS
Standard Sanitary Clamp

Model GSCPS
Low Profile Sanitary Clamp

For complete part number, see "Meter Number Reference" for this section.

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

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 PPG / 237 PPL
	1-1/2" (150)	340 PPG / 90 PPL
	2" (200)	181 PPG / 48 PPL
Wetted Materials (SIP):		
Housing:		316 Stainless Steel
Bearings & Bushings:		PEEK
Shaft:		316 Stainless Steel
Rotor:		CD4MCu Stainless Steel (Nickel Plated)
Rotor Supports:		316 Stainless Steel
Retaining Rings:		300 Series 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.

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 and Mag Pick-Up

For complete part number, see "Meter Number Reference" for this section.

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 PPG / 2642 PPL
	1/2" (051)	10,000 PPG / 2642 PPL
	3/4" (075)	3,750 PPG / 991 PPL
	3/4" (075E)	2,608 PPG / 689 PPL
	1" (100)	896 PPG / 237 PPL
	1-1/2" (150)	340 PPG / 90 PPL
	2" (200)	181 PPG / 48 PPL
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
Retaining Rings:		300 Series 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.

G Series Precision ACCESSORIES

Magnetic Pickups

When choosing a magnetic pickup, the turbine meter and electronics are generally already known. Electronics can be either Local or Remote. Remote electronics include FLOMEC® 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								Magnetic Pickups work with...		
Description	**Part Number**	**Sensor Power**	**Temperature Range**	**Cable Type**	**Connector Required**	**Cable Length**	**Thread Size**	**Local**	**Remote**	**Battery Pwr Display**
Wire Lead Low Drag	81006001	None	-100° F to +250° F (-73° C to +121° C)	None	None	12 in. (30.5 cm)	5/8" - 18	X		Yes
Low Drag	81006000	None	-100° F to +250° F (-73° C to +121° C)	S	80001200	N/A	5/8" - 18		X	Yes
High Temp., Low Drag (10 ft. cable)	81007001	None	-450° F to +800° F (-268° C to +426° C)	None	None	10 ft. (24.4 cm)	5/8" - 18		X	Yes
*RF (required for GNP-050, GTP-050 & GSCP-050)	81005002	7-30 VDC	-40° F to +248° F (-29° C to +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 to +250° F (-73° C to +121° C)	None	None	12 in. (30.5 cm)	5/8" - 18	X		Yes
Standard	81001000	None	-100° F to +250° F (-73° C to +121° C)	S	80001200	N/A	5/8" - 18		X	Yes
Herm / High Temperature	81002000	None	-450° F to +258° F (-268° C to +125° C)	S	80001200	N/A	5/8" - 18		X	Yes
High Temperature, Standard	81007000	None	-450° F to +800° F (-268° C to +426° C)	None	None	3 ft. (0.91 m)	5/8" - 18		X	Yes
▲*Digital (Di-Mag)	81004000	5-32 VDC	-40° F to +248° F (-29° C to +120°C)	D	80001202	N/A	5/8" - 18		X	No

▲ Pulls up to 10 VDC (Max) * Externally powered pickups for pulse output only.

Pickup Enclosures

Pickup Enclosures are optional on G Serie 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

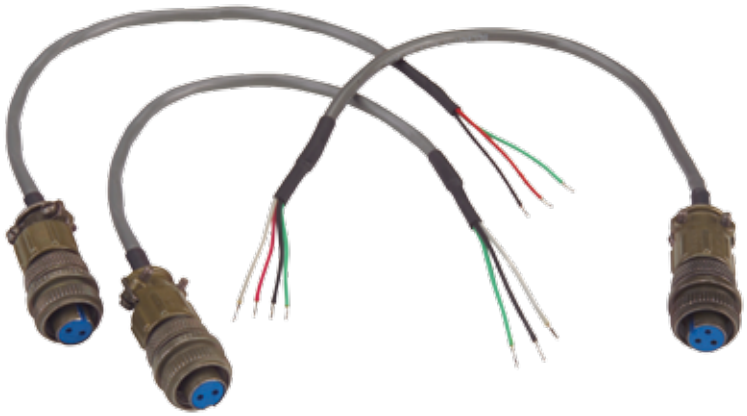
Connectors

Connectors are included with FLOMEC® cable assemblies. 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



FLOMEC® 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 in. (20.7 cm)	83001001	8 in. (20.7 cm)	83003001
5 ft. (1.52 m)	83001005	5 ft. (1.52 m)	83003005
10 ft. (3.04 m)	83001010	10 ft. (3.04 m)	83003010
15 ft. (4.57 m)	83001015	15 ft. (4.57 m)	83003015
20 ft. (6.09 m)	83001020	20 ft. (6.09 m)	83003020
25 ft. (7.62 m)	83001025	25 ft. (7.62 m)	83003025
30 ft. (9.35 m)	83001030	30 ft. (9.35 m)	83003030
40 ft. (12.19 m)	83001040	40 ft. (12.19 m)	83003040
50 ft. (15.24 m)	83001050	50 ft. (15.24 m)	83003050
75 ft. (22.86 m)	83001075	75 ft. (22.86 m)	83003075
100 ft. (30.48 m)	83001100		
125 ft. (38.1 m)	83001125		
Type "D" Di-Mag or RF (3 Conductor)		**Type "T" High Temperature (2 Conductor)**	
Cable Length	**Part No.**	**Cable Length**	**Part No.**
8 in. (20.7 cm)	83002001	8 in. (20.7 cm)	83004001
5 ft. (1.52 m)	83002005	5 ft. (1.52 m)	83004005
10 ft. (3.04 m)	83002010	10 ft. (3.04 m)	83004010
15 ft. (4.57 m)	83002015	15 ft. (4.57 m)	83004015
20 ft. (6.09 m)	83002020	20 ft. (6.09 m)	83004020
25 ft. (7.62 m)	83002025	25 ft. (7.62 m)	83004025
30 ft. (9.35 m)	83002030	30 ft. (9.35 m)	83004030
40 ft. (12.19 m)	83002040	40 ft. (12.19 m)	83004040
50 ft. (15.24 m)	83002050	50 ft. (15.24 m)	83004050
75 ft. (22.86 m)	83002075	75 ft. (22.86 m)	83004075

For display and electronic choices, see Electronics Choice Section on pages 42-45.

G2 Industrial Meters STAINLESS STEEL

"Look for the blue label!"

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

* ISO 7 designation is RC

For complete part number, see "Meter Number Reference" for this section.

Select Your Meter Size:

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

Features and Benefits:

- ✓ Meter is designed for thin fluids < 100 cp.
- ✓ Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- ✓ 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.
- ✓ High accuracy meter.
- ✓ Internal parts are simple to replace for easy maintenance.
- ✓ Lithium battery life: 5 years.
- ✓ Accessories easily upgrade meter.

STAINLESS STEEL – SPECIFICATIONS

Fitting Type:		NPT or ISO (Female) BSPT*	
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/Display**
	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 Display:		0° F to +140° F (-18° C to +60° C)	
Typical K-Factor:	**1/2" (S05)**	2,500 PPG / 660 PPL	
	3/4" (S07)	1,100 PPG / 291 PPL	
	1" (S10)	565 PPG / 149 PPL	
	1-1/2" (S15)	215 PPG / 57 PPL	
	2" (S20)	100 PPG / 26 PPL	
Wetted Materials:	**Housing:**	316 Stainless Steel	
	Bearings:	96% Alumina 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", 3/4"and 1"		60 mesh (250 micron)	
1-1/2" and 2"		30 mesh (595 micron)	
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./1.0 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./2.1 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	
Calibration Report		Comes standard with G2 Series meters.	
		N.I.S.T. – Certification available.	

ELECTRONIC CHOICES

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

APPROVALS

FM APPROVED · FM APPROVED · CE · NEMA 4 · ATEX · **IP65** · **IECEx**

"Look for the blue label!"

This is the turbine meter of choice for high pressure applications like spray washers and hydraulic systems. PSIG for the FLOMEC® 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.

* ISO 7 designation is RC

For complete part number, see "Meter Number Reference" for this section.

Select Your Meter Size:

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

Features and Benefits:

- ✓ Meter is designed for thin fluids < 100 cp.
- ✓ Excellent chemical compatibility.
- ✓ Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- ✓ 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.
- ✓ Internal parts are simple to replace for easy maintenance.
- ✓ Lithium battery life: 5 years.

HIGH PRESSURE – SPECIFICATIONS

Fitting Type:		NPT or ISO (Female) BSPT*	
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/Display**
	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 Display:		0° F to +140° F (-18° C to +60° C)	
Typical K-Factor:	**1/2" (H05)**	2,500 PPG / 660 PPL	
	3/4" (H07)	1,100 PPG / 291 PPL	
	1" (H10)	565 PPG / 149 PPL	
	1-1/2" (H15)	215 PPG / 57 PPL	
	2" (H20)	100 PPG / 26 PPL	
Wetted Materials:	**Housing:**	316 Stainless Steel	
	Bearings:	96% Alumina 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", 3/4" and 1"		60 mesh (250 micron)	
1-1/2" and 2"		30 mesh (595 micron)	
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./.95 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	
Calibration Report		Comes standard with G2 Series meters.	
		N.I.S.T. – Certification available.	

ELECTRONIC CHOICES

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

APPROVALS

CE NEMA 4

G2 Industrial Meters **ANSI FLANGE**

"Look for the blue label!"

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 eight bolts. Combine with FLOMEC® Display Electronics for a complete, accurate, metering system.

For complete part number, see "Meter Number Reference" for this section.

Select Your Meter Size:

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.
- ✓ 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.
- ✓ Precision accuracy meter.
- ✓ Internal parts are simple to replace for easy maintenance.
- ✓ Lithium battery life: 5 years.
- ✓ 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/Display**
	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 Display:		0° F to +140° F (-18° C to +60° C)	
Typical K-Factor:	**1" (S10F)**	565 PPG / 149 PPL	
	1-1/2" (S15F)	215 PPG / 57 PPL	
	2" (S20F)	100 PPG / 26 PPL	
Wetted Materials:	**Housing:**	316 Stainless Steel	
	Bearings:	96% Alumina 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)	60 mesh (250 micron)	
	1-1/2" (S15F)	30 mesh (595 micron)	
	2" (S20F)	30 mesh (595 micron)	
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	
Calibration Report		Comes standard with G2 Series meters.	
		N.I.S.T. – Certification available.	

ELECTRONIC CHOICES

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

APPROVALS

FM APPROVED · FM APPROVED · CE · NEMA 4 · ATEX · **IP65** · **IECEx**

"Look for the blue label!"

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

For complete part number, see "Meter Number Reference" for this section.

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/Display**
	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 Display:		0° F to +140° F (-18° C to +60° C)
Typical K-Factor:	**1/2" (S05T)**	2,500 PPG / 660 PPL
	3/4" (S07T)	1,100 PPG / 291 PPL
	1" (S10T)	565 PPG / 149 PPL
	1-1/2" (S15T)	215 PPG / 57 PPL
	2" (S20T)	100 PPG / 26 PPL
Wetted Materials:	**Housing:**	316 Stainless Steel
	Bearings:	96% Alumina 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)	60 mesh (250 micron)
	3/4" (S07T)	60 mesh (250 micron)
	1" (S10T)	60 mesh (250 micron)
	1-1/2" (S15T)	30 mesh (595 micron)
	2" (S20T)	30 mesh (595 micron)
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
Calibration Report		Comes standard with G2 Series meters.
		N.I.S.T. – Certification available.

ELECTRONIC CHOICES

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

APPROVALS

FM APPROVED · FM APPROVED · CE · NEMA 4 · ATEX Ex · **IP65** · **IECEx**

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.
- ✓ 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.
- ✓ Internal parts are easy to replace.
- ✓ Lithium battery life: 5 years.
- ✓ Accessories easily upgrade meter.

G2 Industrial Meters **ALUMINUM**

"Look for the blue label!"

A full line of FLOMEC® Industrial Meters are available 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.

* ISO 7 designation is RC

For complete part number, see "Meter Number Reference" for this section.

Select Your Meter Size:

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

Features and Benefits:

- ✓ Meter is designed for thin fluids < 100 cp.
- ✓ Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- ✓ 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.
- ✓ Internal parts are simple to replace for easy maintenance.
- ✓ Lightweight, compact design allows for easy installation.
- ✓ Lithium battery life: 5 years.

ALUMINUM – SPECIFICATIONS

Fitting Type:		NPT or ISO (Female) BSPT*				
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/Display**			
	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 Display:		0° F to +140° F (-18° C to +60° C)				
Typical K-Factor:	**1/2" (A05)**	2,500 PPG / 660 PPL				
	3/4" (A07)	1,100 PPG / 291 PPL				
	1" (A10)	565 PPG / 149 PPL				
	1-1/2" (A15)	215 PPG / 57 PPL				
	2" (A20)	100 PPG / 26 PPL				
Wetted Materials:	**Housing:**	Aluminum				
	Bearings:	96% Alumina 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", 3/4" and 1"		60 mesh (250 micron)				
1-1/2" and 2"		30 mesh (595 micron)				
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				
Calibration Report		Comes standard with G2 Series meters.				
		N.I.S.T. – Certification available.				

ELECTRONIC CHOICES

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

APPROVALS

FM APPROVED FM APPROVED CE NEMA 4 ATEX **IP65** **IECEx**

"Look for the blue label!"

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

* ISO 7 designation is RC

For complete part number, see "Meter Number Reference" for this section.

Select Your Meter Size:

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

Features and Benefits:

- ✓ Meter is designed for thin fluids < 100 cp.
- ✓ Modular design allows for use with Output Modules, Sensors and Remote Transmitters.
- ✓ 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.
- ✓ Internal parts are simple to replace for easy maintenance.
- ✓ Lithium battery life: 5 years.

BRASS – SPECIFICATIONS

Fitting Type:		NPT or ISO (Female) BSPT*				
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/Display**			
	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 Display:		0° F to +140° F (-18° C to +60° C)				
Typical K-Factor:	**1/2" (B05)**	2,500 PPG / 660 PPL				
	3/4" (B07)	1,100 PPG / 291 PPL				
	1" (B10)	565 PPG / 149 PPL				
	1-1/2" (B15)	215 PPG / 57 PPL				
	2" (B20)	100 PPG / 26 PPL				
Wetted Materials:	**Housing:**	Brass				
	Bearings:	96% Alumina 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)	60 mesh (250 micron)				
	3/4" (B07)	60 mesh (250 micron)				
	1" (B10)	60 mesh (250 micron)				
	1-1/2" (B15)	30 mesh (595 micron)				
	2" (B20)	30 mesh (595 micron)				
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				
Calibration Report		Comes standard with G2 Series meters.				
		N.I.S.T. – Certification available.				

ELECTRONIC CHOICES

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

APPROVALS

FM APPROVED · FM APPROVED · CE · NEMA 4 · ATEX Ex · **IP65** · **IECEx**

G2 Industrial Meters **PVDF**

"Look for the blue label!"

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.

For complete part number, see "Meter Number Reference" for this section.

PVDF – SPECIFICATIONS

Fitting Type:		NPT or ISO (Female) BSPT*	
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/Display**
	1/2" (P05)	± 2.0%	± 1.5%
	1" (P10)	± 1.5%	± 1.0%
Repeatability:		± 0.3%	
Pressure Rating:		100 PSI / 6.9 BAR	
Operating Temperature Range:		-20° F to +180° F (-28° C to +82° C)	
with Display:		0° F to +140° F (-18° 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 PPG / 634 PPL	
	1" (P10)	540 PPG / 143 PPL	
Wetted Materials:	**Housing:**	PVDF (15% Carbon Fiber Filled)	
	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)	60 mesh (250 micron)	
	1" (P10)	30 mesh (595 micron)	
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	
Calibration Report		Comes standard with G2 Series meters.	
		N.I.S.T. – Certification available.	

ELECTRONIC CHOICES

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

APPROVALS

FM APPROVED · FM APPROVED · CE · NEMA 4 · ATEX · **IP65** · **IECEx**

* ISO 7 designation is RC

Select Your Meter Size:

1/2 inch 1 inch

Features and Benefits:

- ✓ Meter is designed for thin fluids < 100 cp.
- ✓ Lithium battery life: 5 years.
- ✓ Available with Local Display or Remote Transmitter.
- ✓ 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.
- ✓ Accessories easily upgrade meter.
- ✓ One field replaceable internal part making maintenance easy.

FM Approved Remote Kit Assembly

(Part No. 113275-1)

FM Approved Remote Kit Assembly Installed

The Factory Mutual (FM) Approved Remote Kit Assembly modifies FLOMEC® 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. (30 m) 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.
- ✓ This kit can upgrade an existing FLOMEC® meter or can be purchased with a new meter.
- ✓ Battery powered from meter; no additional power required.

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 · FM APPROVED · CE · NEMA 4 · ATEX · **IP65**

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. (1.5 km).There is no need for additional signal conditioning or amplification devices to achieve the desired digital signal. Use on G2 “Turbine Only” model.

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.

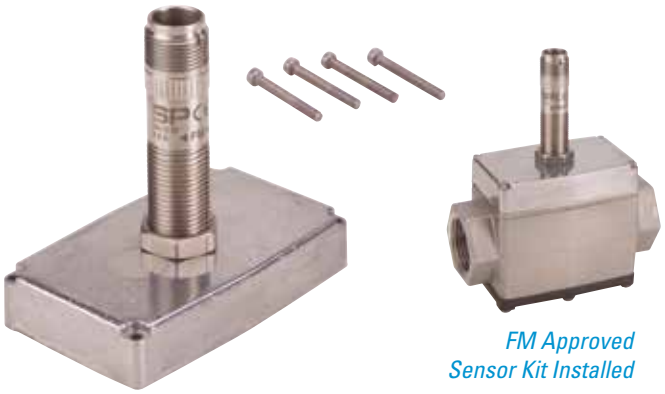
SPECIFICATIONS	
Connector:	Hubble PG7
Signal Type:	Open Collector (NPN)
Power:	External 9 to 35 VDC, approximately 1 mA
Connection:	Three wire
Frequency:	0 to 750 Hz
Cable:	10 ft. (3 m) Belden #9363

APPROVALS

CE

FLOMEC®

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



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 FLOMEC® remote electronics. Use on G2 "Turbine Only" model.

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

APPROVALS

FM APPROVED CE

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 Display 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 display electronics.

SPECIFICATIONS

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

CE

Pulse Access Module

(Part No. 125060-1)

Pulse Access Module Installed

The Pulse Access Module provides an unscaled, digital signal from your FLOMEC® meter by accessing circuitry from the on-board display 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 FLOMEC Turbine and an 09 Display 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. (1.5 km).
- ✓ Communicates with most digital process control devices and its easy to install.

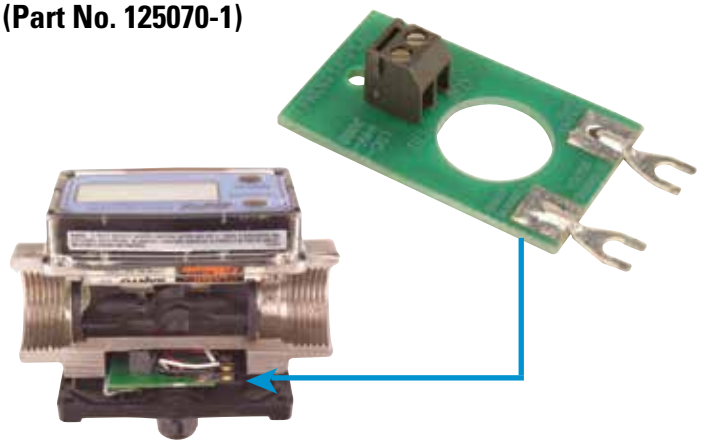
SPECIFICATIONS	
Signal Type:	Open Collector (NPN)
Voltage:	0 to 60 VDC
Frequency:	0 to 750 Hz
Strain Relief:	Hubble PG7
Cable:	10 ft. (3 m) Belden #9363

APPROVALS

CE

External Power Module

(Part No. 125070-1)



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

The module is designed to provide regulated power to the Display 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. (1.5 km).

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

G2 Industrial Meter **ACCESSORIES**

Conduit Adapter Kit
(Part No. 113437-01)

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

Conduit Adapter Kit Installed

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

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

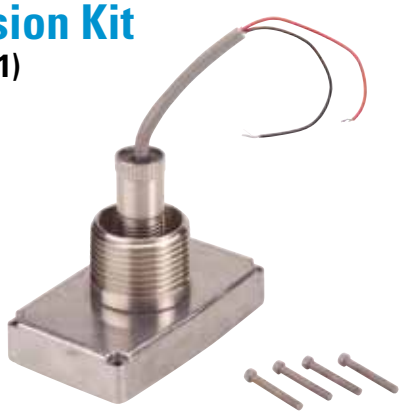
Can be ordered with a meter.
Specify -19 option with meter order.

Kit Shown Installed on PVDF Meter

510 Conversion Kit
(Part No. 11344001)

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

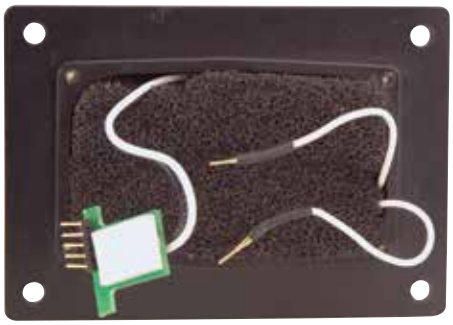
510 Conversion Kit Installed



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

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

Pulse Access Dust Cover Installed



Electronics Programmer
(Part No. 113800-06)

The 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 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 FLOMEC® Electronic Digital Meters (EDMs).

TM 1/2" - 2" Water Meters

Model TM150-N

"Look for the blue label!"

TM Series Meters are designed for use in water applications. The five smallest sizes are shown here. (For 3" and 4" meters, see page 40.) Choose either Spigot (pipe end) or NPT and BSPP fittings.

TM SERIES®
water meters

ACCURACY: ±3.0% READING

Features and Benefits:

- ✓ Easy to install.
- ✓ Displays in gallons, litres and cubic feet.
- ✓ Indicates Batch, Cumulative Totals and Rate of Flow.
- ✓ Available in NPT, BSPP or Spigot fittings.
- ✓ Meets Schedule 80 specifications.
- ✓ Lithium battery life: 5 years.
- ✓ Non-volatile totals means amounts are retained when batteries are replaced or power is lost.

Applications:

- OEM water treatment equipment / skids
- Sub-metering of facility water usage
- Small waste water treatment equipment
- Water based cooling systems

TM SERIES – SPECIFICATIONS

Design Type:	Turbine	
Fitting Size:	1/2" 3/4" 1" 1-1/2" 2"	
Fitting Type:	Schedule 80 Spigot (Pipe) End, NPT (Female) or *BSPP (Female)	
Flow Range:		
1/2" - TM 050:	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:	225 PSI / 15.3 BAR at 73° F (23° C)	
BSP:	150 PSI / 10.3 BAR at 73° F (23° C)	
Operating Temperature:	+32° F to +140° F (0° to +60° C)	
Typical K-Factor:		
1/2" - TM050:	2,500 PPG / 660 PPL	
3/4" - TM075	1,100 PPG / 291 PPL	
1" - TM100:	565 PPG / 149 PPL	
1-1/2" - TM150	215 PPG / 57 PPL	
2" - TM200	100 PPG / 26 PPL	
Battery Life:	5 Years	
Wetted Materials:		
Housing:	PVC	
Bearings:	Ceramic	
Shaft:	Tungsten Carbide	
Rotor:	PVDF	
Rings:	316 Stainless Steel	
Shipping Weight (approx.):	**Spigot**	**NPT / BSP**
1/2" - TM050:	.38 lbs. (.172 kg)	.55 lbs. (.249 kg)
3/4" - TM075:	.43 lbs. (.304 kg)	.67 lbs. (.304 kg)
1" - TM100:	.49 lbs. (.222 kg)	.49 lbs. (.381 kg)
1-1/2" - TM150:	.66 lbs. (.299 kg)	1.38 lbs. (.626 kg)
2" - TM200:	.78 lbs. (.354 kg)	1.78 lbs. (.807 kg)
Display Features:	Rate of Flow, Batch and Cumulative Totals, Field Calibration available.	
Pulse Output (-P Elec. Choice):	Open Collector (NPN)	
Calibration Report	Comes standard with –P (Pulse out) TM Models. N.I.S.T. – Certification available.	

APPROVALS

CE

* BSPP available in 1", 1 1/2" and 2" only.

Model TM200

"Look for the blue label"

TM 1/2" - 2" - PULSE OUT Water Meters

TM SERIES® water meters

TM Series Meters are designed for use in water applications. The five sizes with two fitting types available, Spigot (pipe end) or NPT.

ACCURACY: ±3.0% READING

Features and Benefits:

- ✓ Includes pulse output cable for interfacing with customer equipment.
- ✓ Displays in gallons and litres.
- ✓ Indicates Batch, Cumulative Totals and Rate of Flow.
- ✓ Available in NPT or Spigot fittings.
- ✓ Lithium battery life: 5 years.
- ✓ Non-volatile totals means amounts are retained when batteries are replaced or power is lost.

Applications:

- OEM water treatment equipment / skids
- Sub-metering of facility water usage
- Small waste water treatment equipment
- Water based cooling systems

TM SERIES – SPECIFICATIONS

Design Type:	Turbine	
Fitting Size:	1/2" 3/4" 1" 1-1/2" 2"	
Fitting Type:	Schedule 80 Spigot (Pipe) End, NPT (Female) or *BSPP (Female)	
Flow Range:		
1/2" - TM 050:	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:	225 PSI / 15.3 BAR at 73° F (23° C)	
BSP:	150 PSI / 10.3 BAR at 73° F (23° C)	
Operating Temperature:	+32° F to +140° F (0° to +60° C)	
Pulse Out Description:	NPN Open Collector (Current Sinking)	
Pulse Amplitude:	5 to 30 VDC	
Scaling:	Unscaled	
Shielded Cable:	5 ft. / 1.5 meters (26 AWG)	
Typical K-Factor:		
1/2" - TM050:	2,500 PPG / 660 PPL	
3/4" - TM075	1,100 PPG / 291 PPL	
1" - TM100:	565 PPG / 149 PPL	
1-1/2" - TM150	215 PPG / 57 PPL	
2" - TM200	100 PPG / 26 PPL	
Battery Life:	5 Years	
Wetted Materials:		
Housing:	PVC	
Bearings:	Ceramic	
Shaft:	Tungsten Carbide	
Rotor:	PVDF	
Rings:	316 Stainless Steel	
Shipping Weight (approx.):	**Spigot**	**NPT / BSP**
1/2" - TM050:	.38 lbs. (.172 kg)	.55 lbs. (.249 kg)
3/4" - TM075:	.43 lbs. (.304 kg)	.67 lbs. (.304 kg)
1" - TM100:	.49 lbs. (.222 kg)	.49 lbs. (.381 kg)
1-1/2" - TM150:	.66 lbs. (.299 kg)	1.38 lbs. (.626 kg)
2" - TM200:	.78 lbs. (.354 kg)	1.78 lbs. (.807 kg)
Display Features:	Rate of Flow, Batch and Cumulative Totals, Field Calibration available.	
Calibration Report	Comes standard	
	N.I.S.T. – Certification available.	

APPROVALS

CE

* BSPP available in 1", 1 1/2" and 2" only.

TM SERIES 3" & 4" Water Meters

Model - TM300-F

"Look for the blue label!"

TM Series Meters are designed for use in water applications. The 3" and 4" models are shown here. Choose Spigot (pipe end), NPT, 150# ANSI Flange Fittings, and DIN Flange Fittings.

TM SERIES® water meters

For complete part number, see "Meter Number Reference" for this section.

ACCURACY: ±3.0% READING

Features and Benefits:

- ✓ Available in Spigot, NPT, BSPP and Flange fittings.
- ✓ Displays in gallons, litres and cubic feet.
- ✓ Indicates Batch, Cumulative Totals and Rate of Flow.
- ✓ One-piece field replaceable turbine assembly.
- ✓ Spigot models may be cut to length.
- ✓ Meets Schedule 80 specifications.
- ✓ Lithium battery life: 5 years.
- ✓ Non-volatile totals means amounts are retained when batteries are replaced or power is lost.

Applications:

- OEM water treatment equipment / skids
- Sub-metering of facility water usage
- Waste water treatment equipment
- Chemical feed systems
- Cooling towers
- Irrigation

TM SERIES – SPECIFICATIONS

Design Type:	Turbine		
Fitting Size:	3" 4"		
Fitting Type:	Schedule 80 Spigot (Pipe) End, NPT (Female), 150# ANSI Flange or DIN 100 Flange		
Flow Range:			
3" - TM 300:	40 - 400 GPM (151 - 1514 LPM)		
Extended Range:	30 - 600 GPM (131 - 2271 LPM)		
4" - TM400:	60 - 600 GPM (227 - 2271 LPM)		
Extended Range:	40 - 800 GPM (151 - 3028 LPM)		
Accuracy:	± 3.0% of reading		
Pressure Rating:	225 PSI / 15.3 BAR at 73° F (23° C)		
DIN:	135 PSI / 9.1 BAR at 73° F (23° C)		
For CE Applications:	135 PSI / 9.1 BAR at 73° F (23° C)		
Operating Temperature:	+32° F to +140° F (0° to +60° C)		
Typical K-Factor:			
3" - TM 300:	43 PPG / 11 PPL		
4" - TM400:	17 PPG / 4.5 PPL		
Battery Life:	5 Years		
Wetted Materials:			
Housing:	PVC		
Bearings:	PEEK		
Shaft & Thrust Washers:	Stainless Steel		
Rotor & Nose Cone:	Acetal		
Signal Generator:	Ferrite		
Shipping Weight (approx.):	**Spigot**	**NPT**	**Flange**
3" - TM300:	2.4 lbs.	3.9 lbs.	5.8 lbs.
	(1.09 kg)	(1.77 kg)	(2.63 kg)
4" - TM400:	3.7 lbs.	6.1 lbs.	9.2 lbs.
	(1.68 kg)	(2.77 kg)	(4.17 kg)
Display Features:	Rate of Flow, Batch and Cumulative Totals, Field Calibration available.		
Pulse Output (-P Elec. Choice):	Open Collector (NPN)		
Calibration Report	Comes standard with –P (Pulse out) TM Models. N.I.S.T. – Certification available.		

ELECTRONIC CHOICES

GG, GX, GA or SC:	See Electronics Section.

APPROVALS

CE NSF

NPT Model - TM400-N-GX

"Look for the blue label!"

Spigot Model -TM400

NPT Model - TM300-N

A1 Commercial Grade Meters

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

"Look for the silver label!"

	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:	Application Dependent*	± 1.5% of reading	± 1.5% of reading	Application Dependent*	± 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° F to +250° F	-40° F to +250° F	-40° F to +250° F	-40° F to +250° F
	(-40° C to +121° C)	(-40° C to +121° C)	(-40° C to +121° C)	(-40° C to +121° C)	(-40° C to +121° C)
with Display:	0° F to +140° F	0° F to +140° F	0° F to +140° F	0° F to +140° F	0° F to +140° F
	(-18° C to +60° C)	(-18° C to +60° C)	(-18° C to +60° C)	(-18° C to +60° C)	(-18° 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 PPG / 581 PPL	730 PPG / 193 PPL	72 PPG / 19 PPL	2200 PPG / 581 PPL	730 PPG / 193 PPL
Frequency Range:	11 - 110 Hz @	36.5 - 608.3 Hz @	36 - 360 Hz @	11 - 110 Hz @	36.5 - 608.3 Hz @
	0.3 - 3 GPM	3 - 50 GPM	30 - 300 GPM	0.3 - 3 GPM	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 Display (See page 41)	09 Display (See page 41)	09 Display (See page 41)	09 Display (See page 41)	09 Display (See page 41)
Calibration Report	Comes standard with A1 Series Meters. N.I.S.T. – Certification available.				

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

♦ ISO 7 Designation is RC.

APPROVALS

FM APPROVED · FM APPROVED · CE · NEMA 4 · ATEX · IP65 · IECEx

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

FM Approved Remote Kit Assembly Installed

The Factory Mutual (FM) Approved Remote Kit Assembly modifies FLOMEC® 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. (30 m) from the turbine.

This kit consists of a sensor module, a dust cover assembly and 10 ft. (3 m) of cable; it also requires a 09 Display.

Features and Benefits:

- ✓ Maintains FM Approval.
- ✓ Accommodates fluid temperatures from -40° F to +250° F (-40° C to +121° C).
- ✓ This kit can upgrade an existing FLOMEC® 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 CE

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

APPROVALS

CE

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. (1.5 km). There is no need for additional signal conditioning or amplification devices to achieve the desired digital signal. Use on G2 "Turbine Only" model.

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.

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

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

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).

01A Series Fuel Meter

"Look for the red label!"

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 – 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 76 for meter dimensions)
Local Display:	Includes: 2 Totals (1 Cumulative, 1 Batch); Permanent factory calibration for gasoline, diesel fuel or kerosene.

APPROVALS

FM APPROVED 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, micro-processor 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

Electronic Lube Meter **LM51DN - 1/2"**

ECONOMY

ACCURACY: ±0.5% OF READING

The model LM51DN electronic lube meter is designed specifically to dispense motor oils (SAE 5...50), gear oils (SAE 80...240), automatic transmission fluid, antifreeze (Ethylene Glycol), brake fluid, windshield wiper fluid and engine coolant solutions. Modular design, low cost, lightweight and rugged make the LM51DN the best choice for overhead reel systems.

The electronic register module contains a microprocessor board powered by a lithium battery. It can be programmed to dispense in pints, quarts, liters, or US gallons and will totalize in liters or US gallons. The meter calibration factor is determined during factory test. The meter can be recalibrated in the field for fluids or different viscosity if required. A 6-digit liquid crystal display, accurate to the second decimal place, shows the exact amount of fluid dispensed. The entire register module is protected from the wear and tear of normal shop use by a rugged, glass filled, shock resistant, nylon housing.

Features and Benefits:

- ✓ 1500 psi rating
- ✓ NPT threads
- ✓ Large 6-digit LCD display with two decimal-point precision
- ✓ Dispense total display in pints, quarts, US gallons or liters
- ✓ Unit of measure selectable from the front of register
- ✓ Totalization in US gallons and liters
- ✓ Resettable and non-resettable totalizer
- ✓ Display operation temperature range -4...140° F (-20...60° C)
- ✓ Low battery indicator
- ✓ Long life field replaceable top load battery
- ✓ Calibration factor programmable from front of register
- ✓ Calibration factor saved in non-volatile memory

LM51DN – SPECIFICATIONS

Design Type:	Oval Gear with Electronic Display
Fitting Size:	1/2 inch
Fitting Type:	Inlet and Outlet: NPT (Female)
Flow Range:	0.25 - 8 GPM (1 - 30 LPM)
Accuracy:	± 0.5% of reading
Pressure Rating:	5 - 1500 PSI (0.35 - 103 BAR)
Operating Temperature:	-4° F to +140° F (-20° C to +60° C)
Wetted Material:	
Housing:	Aluminum
Shaft:	Stainless Steel
Gears:	LCP (Liquid Crystal Polymer)
Magnets:	Alucio
O-ring:	Buna
Shipping Weight (approx.):	2 lbs. (0.9 kg)
Display Options:	Local Display includes: Batch and Cumulative Totals. Factory and Field Calibration.

APPROVALS

CE

01 SERIES Electronic Digital Meters

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, micro-processor 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 – SPECIFICATIONS

Design Type:	Turbine
Fitting Size:	1 inch
Fitting Type:	NPT or BSP
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 +130° F (-10° C to +54° 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 76 for meter dimensions)
Local Display:	Includes: 2 Totals (1 Cumulative, 1 Batch); Permanent factory calibration for water.

APPROVALS

CE

02 Series Electronic Flowmeter with Scaled Pulse Output

ACCURACY: ±5.0% OF READING

Features and Benefits:

- ✓ Complete meter, including turbine assembly, microprocessor and LCD readout.
- ✓ Two Totals: Batch (Resettable to measure flow during a single use) and Cumulative (Non-resettable, to provide continuous measurement).
- ✓ Remote monitor option to connect to an external system (NPN Open Collector Pulse).
- ✓ Lightweight, compact design allows for easy installation.
- ✓ Display powered by two AAA alkaline batteries that are easy to replace, with the meter installed.

Applications:

- Irrigation
- Building Automation (Chillers)
- Programmable Logic Controller (Batch Control)
- OEM (connect to flow switch - low cost meter)
- Diesel and Fuel Oil
- Data Logger
- Wireless Communication
- Numerous water applications

SPECIFICATIONS

Fitting Size / Fitting Type:	1 inch / BSPT (Female)
	1 inch / NPT (Female)
	1 inch / BSPP (Female)
Flowrate:	3 - 30 GPM (11 - 113 LPM)
Accuracy:	± 5.0% of reading
Pressure Rating:	150 PSIG (10.3 BAR)
Operating Temperature:	+14° F to +130° F (-10° C to +54° C)
Pulse Out Description:	Open Collector (a.k.a. NPN or Current Sinking)
Pulse Duration:	250 msec
Pulse Amplitude:	5 to 30 VDC
Scaling:	One Pulse per Gallon or Litre
Cable Length:	5 ft. / 1.5 meters
Wetted Material (Aluminum):	
Housing:	Aluminum
Bearings:	Ceramic
Shaft:	Tungsten Carbide
Rotor:	Nylon
Signal Generators:	Ferrite
Rings:	316 Stainless Steel
Wetted Material (Nylon):	
Housing:	Nylon
Bearings:	Ceramic
Shaft:	Tungsten Carbide
Rotor:	Nylon
Signal Generators:	Ferrite
Rings:	316 Stainless Steel

APPROVALS

CE

OM004, OM006 & OM008 Oval Gear Meter

OM004 (1/8"), OM006 (1/4") and OM008 (3/8") Oval Gear Meters

The OM Small Capacity Oval Gear Meters have an increased flow range and offers the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability.

OM Electronic Choices:

Options include electronic LCD totalisers, flowrate totalisers and batch controllers (4-20mA, scaled pulse, alarms and batch control)

- G5 LCD 6-digit reset, cumulative totalizer and flow rate, pulse output
- G6 LCD 6-digit reset, cumulative totalizer and flow rate analog (4-20mA) and pulse outputs
- G7 Blind analog (4-20mA) output
- BT11 LCD 5-digit reset, 8-digit cumulative totalizer, pulse output
- RT14 LCD 6-digit reset, cumulative totalizer and flow rate, analog and pulse outputs
- RT40 LCD 6-digit reset, cumulative totalizer and flow rate. Backlit Display, pulse output
- EB10 LCD 6-digit 2 stage batcher and cumulative totaliser (Available for remote mounting and with I.S. approvals - RT14 and BT11 only)
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (AL), incl. Line Bushsing
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (SS), incl. Line Bushsing
- F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F018 Intrinsically Safe backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F130 2 Stage batch controller backlit
- F130 2 Intrinsically Safe Stage batch controller backlit

ACCURACY: ±1.0% OF READING

Select Your Body Material:

Aluminum or Stainless Steel

Features and Benefits:

- ✓ High accuracy and repeatability, direct volumetric reading.
- ✓ No requirement for flow conditioning (straight pipe runs).
- ✓ Stainless Steel rotors (Optional PPS Rotor for OM008 meter).
- ✓ Measures high and low viscosity liquids
- ✓ Quadrature pulse output option and bi-directional flow
- ✓ Blind 4-20mA output option
- ✓ Optional Exd I/IIB approval (ATEX, IECEx)
- ✓ PF option available for metering pulsating flows
- ✓ Only two moving parts

SPECIFICATIONS

Model Prefix:	OM004 (1/8")	OM006 (1/4")	OM008 (3/8")
Nominal size (inches):	1/8" (4mm)	1/4" (6mm)	3/8" (8mm)
*Flow range - (GPH):	(0.13-9.5)	(0.5-27)	(4-145)
- (LPH):	(0.5 - 36)	(2 - 100)	(15 - 550)
**Accuracy @ 3cp:	± 1% of reading (accuracy is ± 0.2% of reading with optional RT14 with non-linearity correction)		
Repeatability:	Typically ± 0.03% of reading		
Temperature range:	-4° F - +250° F (-20° C - +120° C), refer factory for lower temperature		
Maximum pressure:	**PSI (bar) Threaded Meter**		
Aluminium meters:	220 (15)		
316 stainless steel:	495 (34)		
Intermediate press. SS meter:	1450 (100)		
Electrical - for pulse meters (see below for optional outputs)			
Output pulse resolution:	**Pulses / gallon (Pulses / litre) - nominal**		
Reed switch:	10600 (2800)	3975 (1050)	1345 (355)
Hall effect:	10600 (2800)	3975 (1050)	2690 (710)
QP-Quadrature Hall option:	10600 (2800)	3975 (1050)	2690 (710)
PF-Pulsating Flow (Hall Effect):	10600 (2800)	3975 (1050)	675 (178)
HR-High resolution Hall effect:	42400 (11200)	15900 (4200)	N/A
Reed switch output:	30Vdc x 200mA max. [maximum thermal shock 18° F (10° C) / minute]		
Hall effect output (NPN):	3 wire open collector, 5-24Vdc max., 20mA max.		
Optional outputs:	4-20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control		
Physical			
Protection class:	IP66/67 (NEMA4X), optional Exd I / IIB T4/T6, integral ancillaries can be supplied I.S. (intrinsically safe)		
Overall dimensions:	Refer Below		
Recommended filtration:	200 mesh (75 microns)		

* Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max. recommanded pressure drop is 100Kpa. (14.5 psi)

OM015, OM025, OM040 & OM050

OM015 (1/2"), OM025 (1"), OM040 (1-1/2") and OM050 (2")

The OM Medium Capacity Oval Gear Meters are great for medium flow ranges and have the ability to handle a wide range of fluid viscosities.

OM Electronic Choices:

Options include electronic LCD totalisers, flowrate totalisers and batch controllers (4-20mA, scaled pulse, alarms and batch control)

- G5 LCD 6-digit reset, cumulative totalizer and flow rate, pulse output
- G6 LCD 6-digit reset, cumulative totalizer and flow rate analog (4-20mA) and pulse outputs
- G7 Blind analog (4-20mA) output
- BT11 LCD 5-digit reset, 8-digit cumulative totalizer, pulse outputs
- RT14 LCD 6-digit reset, cumulative totalizer and flow rate, analog and pulse outputs
- RT40 LCD 6-digit reset, cumulative totalizer and flow rate. Backlit Display, pulse outputs
- EB10 LCD 6-digit 2 stage batcher and cumulative totaliser (Available for remote mounting and with I.S. approvals - RT14 and BT11 only)
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (AL), incl. Line Bushsing
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (SS), incl. Line Bushsing
- F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F018 Intrinsically Safe backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F130 2 Stage batch controller backlit
- F130 2 Intrinsically Safe Stage batch controller backlit

ACCURACY: ±0.5% OF READING

Select Your Body Material:

Aluminum or Stainless Steel

Features and Benefits:

- ✓ High accuracy and repeatability, direct volumetric reading.
- ✓ No requirement for flow conditioning (straight pipe runs).
- ✓ Measures high and low viscosity liquids.
- ✓ Quadrature pulse output option and bi-directional flow
- ✓ Blind 4-20mA output option
- ✓ Optional Exd I/IIB approval (ATEX, IECEx)
- ✓ Only two moving parts

SPECIFICATIONS

Model Prefix	OM015 (1/2")	OM025 (1")	OM040 (1.5")	OM050 (2")
Nominal size (inches):	1/2" (15mm)	1" (25mm)	1.5" (40mm)	2" (50mm)
*Flow range - (GPM):	0.26 - 10.6	2.6 - 40	4.0 - 66	8 - 120
- (LPM):	1 - 40	10 - 150	15 - 250	30 - 450
**Accuracy @ 3cp:	± 0.5% of reading (accuracy is ± 0.2% of reading with optional RT14 with non-linearity correction)			
Repeatability:	Typically ± 0.03% of reading			
Temperature range:	-4°F - +250°F(-20°C - +120°C), refer factory for lower temperature			
Maximum pressure:	**PSI (bar) Threaded Meters**			
Aluminium meters:	990 (68)	990 (68)	435 (30)	285 (20)
Intermediate press. AL	-	2000 (138)	-	-
316 stainless steel:	990 (68)	990 (68)	435 (30)	550 (38)
Intermediate press. SS meter:	1450 (100)	1450 (100)	725 (50)	725 (50)
Max. pressure Mech. Meter	**PSI (Threaded meters) bar**			
Aluminium meters	**580 (40)**	**580 (40)**	**435 (30)**	**285 (20)**
316 stainless steel	**580 (40)**	**580 (40)**	**435 (30)**	**285 (20)**
Electrical - for pulse meters (see below for optional outputs)				
Output pulse resolution:	Pulses / gallon (Pulses / litre) - nominal			
Reed switch:	318 (84)	102 (27)	53 (14)	25 (6.5)
Hall effect:	636 (168)	405 (107)	212 (56)	99 (26)
QP-Quadrature Hall option:	636 (168)	204 (54)	106 (28)	49 (13)
Reed switch output:	30Vdc x 200mA max. [maximum thermal shock 18° F (10° C) / minute]			
Hall effect output (NPN):	3 wire open collector, 5-24Vdc max., 20mA max.			
Optional outputs:	4-20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control			
Physical				
Protection class:	IP66/67 (NEMA4X), optional Exd I / IIB T4/T6, integral ancillaries can be supplied I.S. (intrinsically safe)			
Overall dimensions:	Refer Below			
Recommended filtration:	100 mesh (150 microns)			

* Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max. recommanded pressure drop is 100Kpa. (15 psi)

** Accuracy ± 1% of reading with M - Series mechanical registers and accuracy ± 0.5% of reading with V-series mechanical register.

FLOMEC®

OM080, OM080E & OM100

OM080 (3"), OM080E (3") and OM100 (4") Oval Gear Meters

The OM Large Capacity Oval Gear Meters have fitting sizes of 3 inches and 4 inches and handle volumetric flow measurement of clean liquids used in a wide range of applications.

OM Electronic Choices:

Options include electronic LCD totalisers, flowrate totalisers and batch controllers (4-20mA, scaled pulse, alarms and batch control)

- G5 LCD 6-digit reset, cumulative totalizer and flow rate, pulse output
- G6 LCD 6-digit reset, cumulative totalizer and flow rate analog (4-20mA) and pulse outputs
- G7 Blind analog (4-20mA) output
- BT11 LCD 5-digit reset, 8-digit cumulative totalizer, pulse outputs
- RT14 LCD 6-digit reset, cumulative totalizer and flow rate, analog and pulse outputs
- RT40 LCD 6-digit reset, cumulative totalizer and flow rate. Backlit Display, pulse outputs
- EB10 LCD 6-digit 2 stage batcher and cumulative totaliser (Available for remote mounting and with I.S. approvals - RT14 and BT11 only)
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (AL), incl. Line Bushsing
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (SS), incl. Line Bushsing
- F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F018 Intrinsically Safe backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F130 2 Stage batch controller backlit
- F130 2 Intrinsically Safe Stage batch controller backlit

ACCURACY: ±0.5% OF READING

Select Your Body Material:

Aluminum or Stainless Steel

Features and Benefits:

- ✓ High accuracy and repeatability, direct volumetric reading
- ✓ No requirement for flow conditioning (straight pipe runs)
- ✓ Various rotor material options
- ✓ Measures high and low viscosity liquids
- ✓ Quadrature pulse output option and bi-directional flow
- ✓ Blind 4-20mA output option
- ✓ Optional Exd I/IIB approval (ATEX, IECEx)
- ✓ Only two moving parts

SPECIFICATIONS

Model Prefix:	OM080	OM080E	OM100
Nominal size (inches):	3" (80mm)	3" (80mm) E	4" (100mm)
*Flow range - (GPM):	10 - 200	13 - 260	20 - 400
- (LPM):	35 - 750	50 - 1000	75 - 1500
**Accuracy @ 3cp:	± 0.5% of reading (accuracy is ± 0.2% of reading with optional RT14 with non-linearity correction)		
Repeatability:	Typically ± 0.03% of reading		
Temperature range:	-4° F - +250° F (-20° C - +120° C), refer factory for lower temperature		
Maximum pressure:	**PSI (bar) Threaded Meters**		
Aluminium meters	175 (12)	175 (12)	145 (10)
316 stainless steel	175 (12)	-	-

Electrical - for pulse meters (see below for optional outputs)

Output pulse resolution:	Pulses / gallon (Pulses / litre) - nominal		
Reed switch:	10.0 (2.65)	5.68 (1.55)	4.15 (1.10)
Hall effect:	40.5 (10.70)	22.7 (6.00)	16.60 (4.40)
Quadrature Hall option:	20.0 (5.33)	11.4 (3.00)	8.30 (2.20)
Reed switch output:	30Vdc x 200mA max. [maximum thermal shock 18° F (10° C) / minute]		
Hall effect output (NPN):	3 wire open collector, 5-24Vdc max., 20mA max.		
Optional outputs:	4-20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control		

Physical

Protection class:	IP66/67 (NEMA4X), optional Exd I / IIB T4/T6, integral ancillaries can be supplied I.S. (intrinsically safe)
Overall dimensions:	Refer Below
Recommended filtration:	40 mesh (350 microns)

* Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max. recommanded pressure drop is 100Kpa. (15 psi)

**Accuracy ± 1% of reading with M - Series mechanical registers and accuracy ± 0.5% of reading with V-series mechanical register.

SIZE

DP490 = 1-1/2 in. to 36 in. pipes (40-900 mm)
DP525 = 2 to 100 in. pipes (50-2500 mm) suitable for “hot-tap” installations (valve not included)

BODY MATERIALS

S = 316 Stainless Steel

ROTOR & BEARING MATERIALS

1 = PEEK high temperature rotor with stainless steel rotor shaft - 300º F (150º C)
2 = PVDF rotor with 316 stainless steel rotor shaft (standard)

O-RING MATERIALS

1 = FKM (Viton™) **standard**, 5 to 400º F (-15 to +204º C)
4 = Buna-N (Nitrile), -40 to +250º F (-40 to +125º C)

TEMPERATURE LIMITS

2 = 260º F (125º C) - available with electrical connections 5 & 6
3 = 300º F (150º C) - only available with pick-up type 2, electrical connection 5, PEEK rotor, & Viton O-Ring
5 = 212º F (100º C) - Standard temperature rating
8 = 176º F (80º C) - for non-magnetic pick-up type 4

PROCESS CONNECTIONS

1 = BSPT male thread - 1½” (DP490) or 2” (DP525)
2 = NPT male thread - 1½” (DP490) or 2” (DP525)
3 = 2” BSPT male thread on the DP490
4 = 2” NPT male thread on the DP490

PICK-UP TYPE

1 = NPN open collector & voltage pulse
2 = NPN open collector(s) only (for temp code 3 or QP option)
3 = Reed switch only (may be used with an I.S. barrier or instrument in hazardous areas)
4 = Non magnetic rotor with NPN output (for liquids with ferrous impurities, needs power)
8 = NPN open collector & Reed switch (standard)
9 = Quadrature pulse output (requires F15 option for bi-directional flow capability)

ELECTRICAL CONNECTIONS

1 = 10 ft. cable [3 metres] (**standard**)
2 = 33 ft. cable [10 metres]
3 = 66 ft. cable [20 metres]
4 = 164 ft. cable [50 metres] (for longer lengths refer to factory)
5 = Terminal box on stem kit (add this for integral output option FI, 4-20mA output)
6 = Stem kit - 3/8” NPT (price included with integral options B2, B3, R2, R3 & E0)
7 = Stem kit - 1” NPT (for G5, G6 & G7)

Continued on next page.

DP490 & DP525 Insertion Impeller Meters

INTEGRAL OPTIONS

___ = Combination Reed Switch and Hall Effect Sensor
G5 = Rate / Total Display w / pulse out and optional Ex. Power
G6 = Rate / Total Display w / 4-20mA out
G7 = Loop powered 4-20mA analog output
B2 = BT11 dual totaliser (with scaleable pulse output)
B3 = I.S. intrinsically safe BT11 including output [IECEX & ATEX approved]
R3 = I.S. intrinsically safe RT14 with all outputs [IECEX & ATEX approved]
R4 = RT40 large LCD flow rate totaliser [scaled pulse + backlighting]
R5 = RT14 backlit rate totaliser with all outputs (GRN housing)
F15 = F115 backlit bidirection flow, rate/tot, pulse out, 4-20mA
F18 = F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
F19 = F018 Intrinsically Safe backlit rate/tot, pulse, 4-20mA, 10 pt lin, HART

DP Series Insertion Impeller Meters

DP490 & DP525 are cost effective stainless steel flowmeters for measuring the flow of water, fuels & other low viscosity liquids in pipes sizes 1.5" - 100" (40 - 2500mm).

ACCURACY: ±1.5% OF READING

Body Material:

Stainless Steel

Features and Benefits:

- ✓ IP68 (NEMA6) submersible 316SS construction.
- ✓ Low cost of ownership, wide flow range.
- ✓ Rugged & compact design.
- ✓ Intrinsically safe hazardous area versions.
- ✓ Hot tap installation
- ✓ Integral or remote pre-amplifiers & flow instruments.
- ✓ DP525 version suitable for "hot tap" installation.
- ✓ Quadrature pulse output option and Bi-Directional Flow Measurement
- ✓ Integral 4-20mA output option

SPECIFICATIONS

Model Prefix:	DP490	DP525
Suit pipe sizes:	1.5" - 36" (40 - 900mm)	2"-100" (50 - 2500mm)
Pipe connection:	1.5" or 2" BSPT or NPT male	2" BSPT or NPT male
Flow range:	4 - 99,600 USGM (0.25 - 6300 litres/sec)	6 - 780,000 USGM (0.4 - 49000 litres/sec)
Flow velocity range:	1 - 33 feet/sec (0.3 - 10 meters/sec)	
Linearity:	typically ± 1.5% with well established flow profile	
Temperature range:	For PEEK: -40°F - +300° F (-40° C - +150° C) / For PVDF: 212° F (100° C)	
Maximum pressure:	1160 psig (80 bar)	
Materials	316ss body and rotor shaft, PVDF rotor (PEEK rotor optional)	
Pulse Outputs		
Reed switch:	30Vdc x 200mA (max.), Nom. 0 - 80hz	
Hall effect:	3 wire NPN, 5 - 24 Vdc, 20mA (max.) Nom. 0 - 240hz	
Voltage Pulse	Self generated voltage. Nom. 0 - 240hz	
Non magnetic sensor:	3 wire NPN, 5-24Vdc max., 20mA max. Nom. 0 - 240hz	
Optional outputs:	4-20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control	
Protection class:	IP68 (NEMA6), integral ancillaries can be supplied I.S. (intrinsically safe)	

* Reed Switch resolution is 1/3 that of the NPN Hall Effect or Voltage pulse outputs.

Local Display for Turbine Meter

"Look for the blue label!"

An excellent choice for most FLOMEC® Meters. Commonly used features are preprogrammed in the Display. End-users can enable additional features by using a password available from the factory or on the GPI website. The 09 configuration provides a high degree of customization, matching customers' exact needs.

09 DISPLAY – SPECIFICATIONS

Std. Factory Configuration:	2 Totals (1 Resettable, 1 Cumulative);
	Factory Calibration in gallons and litres;
	User Calibration and Rate of Flow Indication.
Display Electronics:	09 Electronics can be used on G, G2, TM, A1,
	OM and DP 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:
	Correction Factor. 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 x100 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
Lithium Battery Life:	5 Years
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:	0° F to +140° F (-18° C to +60° C)
Storage Temperature:	-40° F to +158° F (-40° C to +70° C)

APPROVALS (A1 & G2 MODELS ONLY)

FM APPROVED · FM APPROVED · CE · ATEX · IECEx

Using a password-protected configuration process you can enable 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 website.

User Configuration features include:

- Totalizers/Modes Enabled (Cumulative Total, Batch 2 Total, Flowrate Mode)
- Flowrate Timebase (Units per Minutes, Hours and Days)
- Factory Calibration Curve Units Enabled (Gallons, Imperial Gallons, Litres, Quarts, Ounces, Cubic Feet, Cubic Centimeters, Cubic Meters or Barrels (42 gal.)
- Dispense/Display or K-Factor Entry Calibration
- For use with G2, TM, A1 and QSE meters

Features and Benefits:

- ✓ 2 Totals (Batch - Resettable, Cumulative - Not Resettable).
- ✓ Flowrate display updates every 5 seconds, readout is in units/minute.
- ✓ Factory Calibration in gallons and litres is standard. Can be field calibrated to adjust to various fluid thickness.
- ✓ Correction calibration lets end user calibrate by ± percent off.
- ✓ Small, compact and totally self contained with an internal power supply.
- ✓ Non-volatile totals means amounts are retained when batteries are replaced or power is lost.
- ✓ Lithium battery life: 5 years.

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 on the G2 series.

Choose the G5 when a local mount is needed on the OM series.

Choose the 5 when a local mount is needed on the G series.

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 (Remote):	K-factor Entry
(Local):	Correction Factor

ACCURACY: ±0.1% READING

Features and Benefits:

- ✓ Provides communication with process control equipment.
- ✓ Works with G Series, G2 Turbine Meters, OM and DP 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.

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 on the G2 series.

Choose the G6 when a local mount is needed on the OM series.

Choose the 6 when a local mount is needed on the G series.

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 (Remote):	K-factor Entry
(Local):	Correction Factor

ACCURACY: ±0.1% READING

Features and Benefits:

- ✓ Provides communication with process control equipment.
- ✓ Works with G Series, G2 Turbine Meters, OM and DP 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.

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 on the G2 series.

Choose the G7 when a local mount is needed on the OM series.

Choose the 7 when a local mount is needed on the G series.

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)

ACCURACY: ±0.1% READING

Features and Benefits:

- ✓ Provides communication with process control equipment.
- ✓ Works with G Series, G2 Turbine Meters, OM and DP 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.

Scaled Pulse Output

SC500
Remote Mount

SC510
Local Mount

The FLOMEC® 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.

Choose the 8 when a local mount is needed on the G series.

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. (6 m), 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

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, OM and DP Meters.
- ✓ Remote model mounts on pipe or wall.

E Series: E112

Explosion Proof Flowrate Monitor / Totalizer with Linearization, 4-20 mA and Pulse Outputs

The E112 by FLOMEC® offers you an enclosure designed to be used in rough and tough applications, beyond being just explosion proof. Its sturdy design and ease of use are unequaled by any other explosion proof indicator in the market. The E112 is always your first and safest choice in explosion proof applications.

Features and Benefits:

- ✓ Magnetic Pickup Input, Contact Closure Input, DC Pulse Input.
- ✓ Available in Aluminum or Stainless Steel
- ✓ 16 point linearization.
- ✓ Available Battery Powered or External Power.

E112 – SPECIFICATIONS	
Display	
Type	High intensity transreflective numeric and alpha-numeric LCD, UV resistant, with bright backlight. Intensity can be adjusted via keypad.
Digits	Seven 12mm (0.47 in.) and eleven 7mm (0.28 in.) digits. Various symbols and measuring units.
Refresh rate	User definable: 8 times/sec to 30 secs.
Speedometer	To indicate the actual flow rate the bargraph runs from 0 to 100% in 20 blocks, each block is 5%.
Operating Temperature (Operational)	
-40°F to +158°F (-40°C to +70°C)	
Power Requirements	
9 - 27V DC. Power consumption maximum 4.2 Watt. or Long life Lithium battery - lifetime depends upon settings and configuration - up to approximately 2 years	

E112 – SPECIFICATIONS (Continued)	
Sensor Excitation	
Terminal S3: 3V DC for pulse signals and 1.2V DC for coil pick-up	
Note: This is not a real sensor supply. Only suitable for sensors with a very low power consumption like coils (sine wave) and reed swithces.	
Hazardous Area - Explosion Proof	
ATEX Certification	Ⓔx II 2 G Ex IIC T6 Gb Ⓔx II 2 D Ex IIIC T85°C Db
IECEx Certification	Ex d IIC T6 Gb Ex tb IIIC T85°C Db
FM / CSA c-us Certification	Explosion-proof for use in Class I, Division 1, Groups A, B, C, D DIP (Dust-Ignition-proof): Class II, Division 1, Groups E, F and G. Class III, hazardous (classified) locations
Ambient to:	-40°F to +158°F (-40°C to +70°C)
Hazardous Area - Directives	
EMC	Compliant ref. EN61326-1 and FCC 47 CFR part 15
Low voltage:	Compliant ref. EN61010-1
Signal Input (Flowmeter)	
	Coil / sine wave (COIL-HI: 20mVpp or COIL-LO: 80mVpp - sensitivity selectable), NPN / PNP, open collector, reed switch, Namur, active pulse signals 8 - 12 and 24V DC
Frequency	Minimum oHz - maximum 7kHz for total and flow rate. Maximum frequency depends on signal type and internal low-pass filter. E.g. reed switch with low-pass filter. Maximum frequency 120Hz.
K-Factor	0.000010 - 9,999,999 with variable decimal position
Low-pass filter	Available for all pulse signals
External Reset Total	
Function:	• Terminal input to reset total remotely • If this terminal input is closed, the "clear total" function is disabled
Type:	Internally pulled-up switch contact - NPN
Duration:	Minimum pulse duration 100msec
Signal Output (Digital)	
Function:	Pulse output. Transmitting accumulated total.
Frequency:	Maximum 500Hz. Pulse length user definable between 1 msec up to 10 seconds
	One passive transistor output (NPN) - not isolated. 300mA - 50V @25°C (77°F)
Signal Output (Analog)	
Function:	Transmitting linearized flow rate
Accuracy:	12 bit. Error < 0.1%. Analog output signal can be scaled to any desired range.
	Galavanically isolated, loop powered 4-20mA output
Accumulated Totals - 11 digits	
Units/Decimals:	According to selection for total
Note:	Can not be reset to zero.
Flow rate - 7 digits, 0 - 1 - 2 or 3 decimals	
Units:	mL, L, m^3, Gallons, kg, Ton, lb, bl, cf, RND, ft^3, scf, Nm^3, Nl, igal - no units
Time units:	/sec - /min - /hr - /day

ENCLOSURE APPROVALS

F Series: F018

Top of the line specialty electronics by FLOMEC®. F Series Electronics are rugged and dependable, the F Series offers:

- Field-mountable with back enclosure (included)
- Easy programming with a sensible menu-driven structure
- Large (17mm) 7 digit display
- Accepts several different input signals

Features and Benefits:

- ✓ 4-20mA Output
- ✓ High Low Alarms
- ✓ HART Protocol
- ✓ Linearization

Applications:

- The F-Series is your first and safest choice for fieldmount indicators. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°F up to +176°F (-40°C up to 80°C) for safe and hazardous area applications.
- Liquid flow measurement with mechanical flowmeters where a precise calculation over the full measurement range is required. Also continuous flow rate monitoring is required.

ENCLOSURE APPROVALS

CE

F018 – SPECIFICATIONS

Display	
Type	High intensity reflective numeric and alpha-numeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6")
Digits	Seven 17mm (0.67") and eleven 8mm (0.31") digits. Various symbols and measuring units.
Refresh rate	User definable: Fast, 1sec, 3sec, 15sec, 30sec, Off
	Transflective LCD with green LED backlight. Good readings in full sunlight and darkness.
Operating Temperature	
-40°F to +176°F (-40°C to +80°C)	
Power Requirements Options	
16 - 30VDC. Power consumption maximum 400 mA 24V DC.	
Sensor Excitation	
1.2 / 3.2 / 8.2 / 12 / 24V DC - maximum 1.5mm² and 2.5mm²	
Terminal Connections	
Removable plug-in terminal strip. Wire maximum 1.5mm² and 2.5mm².	
Data protection	
Type:	EEPROM backup of all settings. Backup of running totals every minute. Data retention at least 10 years.
Pass-code:	Configuration settings can be pass-code protected.
Environment	
Electromagnetic compatibility:	Compliant ref: EN 61326 (1997), EN 61010-1 (1993)
Signal Input (Flowmeter)	
	Coil / sine wave (minimum 20mVpp or 80mVpp - sensitivity selectable), NPN / PNP, open collector, reed switch, Namur, active pulse signals 8 - 12 and 24V DC
Frequency:	Minimum oHz - maximum 7kHz for total and flow rate internal low-pass filter. E.g. reed switch with low-pass filter: maximum frequency 120Hz
K-Factor:	0.000010 - 9,999,999 with variable decimal position
Low-pass filter:	Available for all pulse signals
Signal Output (Analog)	
Function:	Transmitting differential / sum flow rate
Accuracy:	10 bit. Error < 0.05%. Analog output signal can be scaled to any desired range.
Update time:	Ten times per second
Signal Output (Pulse)	
Function:	Pulse output according to differential or sum accumulated total and indication negative pulse output.
Frequency:	Maximum 64Hz. Pulse length user definable between 7.8 msec up to 2 seconds.
	Two passive transistor ouptuts (NPN) - not isolated. Maximum 50V DC - 300mA per output.
Alarm values - 7 digits	
Units / Decimals:	According to selection for total
Time units:	According to selection for total
Type of alarm:	Low and high flow rate alarm. Includes alarm delay time and configurable alarm outputs.
Line temperature - 6 digits, 1 decimal	
Units:	°F, °C, or K

F Series: F116

Top of the line specialty electronics by FLOMEC®. F Series Electronics are rugged and dependable, the F Series offers:

- Remote Panel Mount Electronics
- Field-mountable with back enclosure
- Easy programming with a sensible menu-driven structure
- Large (17mm) 7 digit display
- Accepts several different input signals

Features and Benefits:

- ✓ Net Use
- ✓ Linearization
- ✓ 4-20mA Output

Applications:

- The F-Series is your first and safest choice for fieldmount indicators. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°F up to +176°F (-40°C up to 80°C) for safe and hazardous area applications.
- Liquid flow measurement with mechanical flowmeters where a precise calculation over the full measurement range is required. Also continuous flow rate monitoring is required.
- Fuel consumption calculation for diesel engines on board of ships or trains. Sum function: where flows are split-up in two pipe-lines and total flow has to be calculated.

F116 – SPECIFICATIONS	
Display	
Type	High intensity reflective numeric and alpha-numeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6")
Digits	Seven 17mm (0.67") and eleven 8mm (0.31") digits. Various symbols and measuring units.
Refresh rate	User definable: Fast, 1sec, 3sec, 15sec, 30sec, Off
Operating Temperature	
-40°F to +176°F (-40°C to +80°C)	
Power Requirements Options	
115 - 230V AC ±10%. Power consumption maximum 15 Watt.	
Sensor Excitation	
1.2 / 3.2 / 8.2 / 12 / 24V DC - maximum 400ma @ 24V DC	
Terminal Connections	
Removable plug-in terminal strip. Wire maximum 1.5mm^2 and 2.5mm^2.	
Data protection	
Type:	EEPROM backup of all settings. Backup of running totals every minute. Data retention at least 10 years.
Pass-code:	Configuration settings can be pass-code protected.
Environment	
Electromagnetic compatibility:	Compliant ref: EN 61326 (1997), EN 61010-1 (1993)
Signal Input (Flowmeter)	
	Coil / sine wave (minimum 20mVpp or 80mVpp - sensitivity selectable), NPN / PNP, open collector, reed switch, Namur, active pulse signals 8 - 12 and 24V DC
Frequency:	Minimum oHz - maximum 7kHz for total and flow rate internal low-pass filter. E.g. reed switch with low-pass filter: maximum frequency 120Hz
K-Factor:	0.000010 - 9,999,999 with variable decimal position
Low-pass filter:	Available for all pulse signals
Signal Output (Analog)	
Function:	Transmitting differential / sum flow rate
Accuracy:	10 bit. Error < 0.05%. Analog output signal can be scaled to any desired range.
Update time:	Ten times per second
	Passive 4-20mA output - not isolated. Unit will be loop powered.
Signal Output (Pulse)	
Function:	Pulse output according to differential or sum accumulated total and indication negative pulse output.
Frequency:	Maximum 64Hz. Pulse length user definable between 7.8 msec up to 2 seconds.
	Two passive transistor ouptuts (NPN) - not isolated. Maximum 50V DC - 300mA per output.
Line temperature - 6 digits, 1 decimal	
Units:	°F, °C, or K

ENCLOSURE APPROVALS

CE

F Series: F118

Top of the line specialty electronics by FLOMEC®. F Series Electronics are rugged and dependable, the F Series offers:

- Remote Panel Mount Electronics
- Field-mountable with back enclosure
- Easy programming with a sensible menu-driven structure
- Large (17mm) 7 digit display
- Accepts several different input signals

Features and Benefits:

- ✓ RS485
- ✓ 4-20mA Output
- ✓ High Low Alarms
- ✓ Linearization
- ✓ Modbus RTU

Applications:

- The F-Series is your first and safest choice for fieldmount indicators. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°F up to +176°F (-40°C up to 80°C) for safe and hazardous area applications.
- Liquid flow measurement with mechanical flowmeters where a precise calculation over the full measurement range is required. Also continuous flow rate monitoring is required.

ENCLOSURE APPROVALS

CE

F118 – SPECIFICATIONS

Display	
Type	High intensity reflective numeric and alpha-numeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6")
Digits	Seven 17mm (0.67") and eleven 8mm (0.31") digits. Various symbols and measuring units.
Refresh rate	User definable: Fast, 1sec, 3sec, 15sec, 30sec, Off
	Transflective LCD with green LED backlight. Good readings in full sunlight and darkness.
Operating Temperature	
-40°F to +176°F (-40°C to +80°C)	
Power Requirements Options	
115 - 230V AC ±10%. Power consumption maximum 15 Watt.	
Sensor Excitation	
1.2 / 3.2 / 8.2 / 12 / 24V DC - maximum 400ma @ 24V DC	
Terminal Connections	
Removable plug-in terminal strip. Wire maximum 1.5mm² and 2.5mm².	
Data protection	
Type:	EEPROM backup of all settings. Backup of running totals every minute. Data retention at least 10 years.
Pass-code:	Configuration settings can be pass-code protected.
Environment	
Electromagnetic compatibility:	Compliant ref: EN 61326 (1997), EN 61010-1 (1993)
Signal Input (Flowmeter)	
	Coil / sine wave (minimum 20mVpp or 80mVpp - sensitivity selectable), NPN / PNP, open collector, reed switch, Namur, active pulse signals 8 - 12 and 24V DC
Frequency:	Minimum oHz - maximum 7kHz for total and flow rate internal low-pass filter. E.g. reed switch with low-pass filter: maximum frequency 120Hz
K-Factor:	0.000010 - 9,999,999 with variable decimal position
Low-pass filter:	Available for all pulse signals
Signal Output (Analog)	
Function:	Transmitting differential / sum flow rate
Accuracy:	10 bit. Error < 0.05%. Analog output signal can be scaled to any desired range.
Update time:	Ten times per second
	Passive 4-20mA output - not isolated. Unit will be loop powered.
Signal Output (Pulse)	
Function:	Pulse output according to differential or sum accumulated total and indication negative pulse output.
Frequency:	Maximum 64Hz. Pulse length user definable between 7.8 msec up to 2 seconds.
	Two passive transistor ouptuts (NPN) - not isolated. Maximum 50V DC - 300mA per output.
Alarm values - 7 digits	
Units / Decimals:	According to selection for total
Time units:	According to selection for total
Type of alarm:	Low and high flow rate alarm. Includes alarm delay time and configurable alarm outputs.
Line temperature - 6 digits, 1 decimal	
Units:	°F, °C, or K

F Series: F126

Top of the line specialty electronics by FLOMEC®. F Series Electronics are rugged and dependable, the F Series offers:

- Remote Panel Mount Electronics
- Field-mountable with back enclosure
- Easy programming with a sensible menu-driven structure
- Large (17mm) 7 digit display
- Accepts several different input signals

Features and Benefits:

- ✓ RS485
- ✓ Modbus RTU
- ✓ 4-20mA Output
- ✓ Temperature Compensation
- ✓ Linearization

Applications:

- The F-Series is your first and safest choice for fieldmount indicators. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°F up to +176°F (-40°C up to 80°C) for safe and hazardous area applications.
- Applications where net flow calculation at base conditions is desired without the influence of thermal product expansion.
- Liquid flow measurement with mechanical flowmeters where a precise calculation over the full measurement range is required. Also continuous flow rate monitoring is required.

F126 – SPECIFICATIONS	
Display	
Type	High intensity reflective numeric and alpha-numeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6")
Digits	Seven 17mm (0.67") and eleven 8mm (0.31") digits. Various symbols and measuring units.
Refresh rate	User definable: Fast, 1sec, 3sec, 15sec, 30sec, Off
	Transflective LCD with green LED backlight. Good readings in full sunlight and darkness.
Operating Temperature	
-40°F to +176°F (-40°C to +80°C)	
Power Requirements Options	
115 - 230V AC ±10%. Power consumption maximum 15 Watt.	
Sensor Excitation	
1.2 / 3.2 / 8.2 / 12 / 24V DC - maximum 400ma @ 24V DC	
Terminal Connections	
Removable plug-in terminal strip. Wire maximum 1.5mm^2 and 2.5mm^2.	
Data protection	
Type:	EEPROM backup of all settings. Backup of running totals every minute. Data retention at least 10 years.
Pass-code:	Configuration settings can be pass-code protected.
Environment	
Electromagnetic compatibility:	Compliant ref: EN 61326 (1997), EN 61010-1 (1993)
Signal Input (Flowmeter)	
	Coil / sine wave (minimum 20mVpp or 80mVpp - sensitivity selectable), NPN / PNP, open collector, reed switch, Namur, active pulse signals 8 - 12 and 24V DC
Frequency:	Minimum oHz - maximum 7kHz for total and flow rate internal low-pass filter. E.g. reed switch with low-pass filter: maximum frequency 120Hz
K-Factor:	0.000010 - 9,999,999 with variable decimal position
Low-pass filter:	Available for all pulse signals
Signal Output (Analog)	
Function:	Transmitting differential / sum flow rate
Accuracy:	10 bit. Error < 0.05%. Analog output signal can be scaled to any desired range.
Update time:	Ten times per second
	Passive 4-20mA output - not isolated. Unit will be loop powered.
Signal Output (Pulse)	
Function:	Pulse output according to differential or sum accumulated total and indication negative pulse output.
Frequency:	Maximum 64Hz. Pulse length user definable between 7.8 msec up to 2 seconds.
	Two passive transistor ouptuts (NPN) - not isolated. Maximum 50V DC - 300mA per output.
Line temperature - 6 digits, 1 decimal	
Units:	°F, °C, or K

ENCLOSURE APPROVALS

CE

F Series: F130

Top of the line specialty electronics by FLOMEC®. F Series Electronics are rugged and dependable, the F Series offers:

- Remote Panel Mount Electronics
- Field-mountable with back enclosure (included)
- For batching small up to very large quantities. Single or repeating batches.
- Easy programming with a sensible menu-driven structure
- 2 stage valve control
- Large (17mm) 7 digit display
- Accepts several different input signals

F130 – SPECIFICATIONS

Display	
Type	High intensity reflective numeric and alpha-numeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6")
Digits	Seven 17mm (0.67") and eleven 8mm (0.31") digits. Various symbols and measuring units.
Refresh rate	User definable: Fast, 1sec, 3sec, 15sec, 30sec, Off
Operating Temperature	
-40°F to +176°F (-40°C to +80°C)	
Power Requirements Options	
115 - 230VAC± 10%. Power consumption maximum 15 Watt.	
Enclosure (Panel Mount)	
Dimensions:	130 x 120 x 60mm (5.12 in. x 4.72 in. x 2.36 in.) W x H x D
Panel cut-out::	115 x 98mm (4.53 in. x 3.86 in.) L x H
Signal Input (Flowmeter)	
	Coil / sine wave (minimum 20mVpp or 80mVpp - sensitivity selectable), NPN / PNP, open collector, reed switch, Namur, active pulse signals 8 - 12 and 24V DC
Signal Output (Analog)	
Function:	Transmitting differential / sum flow rate
Accuracy:	10 bit. Error < 0.05%. Analog output signal can be scaled to any desired range.
Update time:	Ten times per second
Signal Output (Pulse)	
Function:	Pulse output according to differential or sum accumulated total and indication negative pulse output.
Frequency:	Maximum 64Hz. Pulse length user definable between 7.8 msec up to 2 seconds.
Total - 7 digits, 0 - 1 - 2 or 3 decimals	
Units:	L, m^3, GAL, USGAL, kg, lb, bbl, no unit
Accumulated Total - 11 digits	
Units / Decimals:	According to selection for total
Flow rate - 7 digits, 0 - 1 - 2 or 3 decimals	
Units:	mL, m^3, Gallons, kg, Ton, lb, bl, cf, RND, ft^3, scf, Nm^3, NI, igal - no units

ENCLOSURE APPROVALS

CE

N410 Deluxe Batch Controller

The N410 distinguishes itself by its user-friendly features:

- Numerical keypad
- Clear programming menu structure
- Easy-to-read and simple mounting enclosure
- The numerical keypad allows simple and fast changing of the preset batch quality

N410 – SPECIFICATIONS

Power Requirements	
110 - 230V AC. Power consumption maximum 10 Watt. 24V DC + 10%. Power consumption maximum 10 Watt.	
Signal Output (Control, Alarm or Pulse Output)	
	• One batch output (always a mechanical relay) • Two configurable outputs (one mechanical relay and one transistor): batch / two-stage control / any alarm / scaled pulse output
Relays	2 isolated, field replaceable, electro-mechanical relays (NO-NC). Max. switching capacity (resistive load): 8A @ 250V AC / 30V DC Max. switching power (resistive load): 2000VA 240W
Preset / Total	
Digits	7 digits
Units	L, m3, USGAL, IGAL, ft3, bbl, kg, Ton, US Ton, lb
Decimals	0 - 1 - 2 or 3
Accumulated Total	
Digits	10 digits
Flow Rate	
Digits	7 digits
Units	L, m^3, USGAL, IGAL, ft^3, bbl, kg, Ton, US Ton, lb
Decimals	0 - 1 - 2 or 3
Time Units	/sec - /min - /hr - /day

ENCLOSURE APPROVALS

CE

RT40

Battery Powered Flowrate Totalizer

FLOMEC® LCD display RT40 battery powered flowrate totalizer is specifically designed for computing and displaying flowrates and totals from flowmeters with pulse, sine wave or frequency outputs.

The instrument displays resettable (batch) total, cumulative total and instantaneous flowrate in engineering units as programmed by the user.

MODEL CODE

RT40 = Flowrate totalizer with backlit large digit LCD, scalable pulse output

ELECTRICAL ACCESS

1 = M16 x 1.5mm female threaded conduit entry ports

FLOW INPUT TYPE

D = Digital (pulse or frequency)

POWER SUPPLY

0 = Self-powered (battery) or regulated 8-24 VDC

HOUSING TYPE

FA = Universal mount (field or panel) - Aluminum Alloy Housing

MA = Integral meter mount - Aluminum Alloy Housing (Only order MA when retro fitting instrument to OM Series pulse meter)

MECHANICAL OPTIONS

P = Facia protector - 3mm clear polycarbonate protection plate

RT40 + 1 + D + 0 + FA + P ← (Sample Model Number)

Features and Benefits:

- ✓ Battery or external powered, 6-digit large LCD total & 8-digit cumulative totalizer, 5-digit rate display
- ✓ Robust IP66/67~NEMA 4X Aluminium field & panel mountable housing
- ✓ LCD Backlighting standard
- ✓ Scalable universal pulse or frequency inputs
- ✓ Scaled pulse output
- ✓ PIN protected programming
- ✓ Simple flow chart touch key programming
- ✓ Reverse polarity protection
- ✓ Long battery life
- ✓ Heavy duty facia protector shield
- ✓ Relay board with SPDT outputs
- ✓ Flowmeter & pipe mount kits

RT40 - SPECIFICATIONS

Displays:	Large backlit 8-digit numeric display with LCD character, 8-digit reset cumulative totalizer, 5-digit rate display
Memory:	All programmed and accumulative data is stored permanently in non-volatile memory
Temperature Range:	-4° F to +176° F (-20° C to +80° C)
Signal Input:	Pulse/frequency Input with reed switch Hall Effect, Voltage, Current & Coil
Pulse Output:	NPN transistor, Scalable (20hz, 100mA max.)
Battery Power:	Life expectancy 5 years (Unit draws about 70µA under battery). *Battery life reduces when rate is displayed and power is not connected.*
External Power:	Regulated 8-24VDC x 50mA min (Reverse polarity protected)
Configuring:	PIN protected data entry
Protection Class:	IP66/67 (NEMA 4X) 3 x M16 x 1.5 female conduit entries
K-factor Range:	Scale factor i.g. pulses/litre, gallon, etc. programmable range 0.001 - 999,999.999
Engineering Units:	Selectable Ltr, gal, m^3, kgs, lbs (total)./sec,/min./hr or day (rate)

RT14
Self-Powered Flowrate Totalizer

FLOMEC® LCD display RT14 is a fully programmable self-powered flowrate totalizer specifically designed for computing and displaying flowrates and totals from flowmeters with pulse, sine wave or frequency outputs.

The instrument displays resettable (batch) total, cumulative total and instantaneous flowrate in engineering units as programmed by the user.

MODEL CODE

RT14 = Flow rate totaliser with 4~20mA ,scalable pulse & alarm outputs, dual flow inputs

ELECTRICAL ACCESS

1 = M20 x 1.5mm (M16 x 1.5 for Aluminium housing) female threaded conduit entry ports
2 = 1/2" NPT female threaded conduit entry ports (Not available on aluminium housing)

FLOW INPUT TYPE

D = Digital (pulse or frequency)

POWER SUPPLY

0 = Self-powered (battery) or regulated 8-24 VDC

HOUSING TYPE

FM = Universal mount (field or panel) GRN housing
MM= Integral meter mount - GRN housing*

**Only order MM when retro fitting instrument to OM Series pulse meter*

ELECTRICAL OPTIONS

R = Control Output relay board interface with two SPDT relays
I = I.S. Intrinsically safe to Exia IIB T4 - IECEX & ATEX approved

MECHANICAL OPTIONS

P = Facia protector - 3mm clear polycarbonate protection plate (FA, MA only)

RT14 + 1 + D + 0 + MM + I + P ← (Sample Model Number)

Features and Benefits:

- ✓ Self or external powered, 8-digit LCD total & 8-digit cumulative totalizer, 5-digit rate display
- ✓ Robust IP66/67~NEMA 4X universal mount
- ✓ GRN field & panel mountable housing
- ✓ Scaled pulse, 4-20mA (Loop Powered) Output, Dual flow inputs (A+B, A-B, A÷B), multi point linearization of flow input or frequency inputs
- ✓ High & low flow alarms & Low Frequency cutoff
- ✓ PIN protected programming
- ✓ Simple flow chart touch key programming
- ✓ Reverse polarity protection
- ✓ Non volatile memory, Long battery life
- ✓ Relay board with SPDT outputs (Optional)
- ✓ Optional Intrinsically safe version to Exia IIB T4 version (IECEx & ATEX approved) FM, MM only

RT14 - SPECIFICATIONS

Displays:	Large backlit 8-digit numeric display with LCD character, 8-digit reset cumulative totalizer, 5-digit rate display
Memory:	All programmed and accumulative data is stored permanently in non-volatile memory
Temperature Range:	-4° F to +176° F (-20° C to +80° C)
Signal Input:	Pulse/frequency Input with reed switch Hall Effect, Voltage, Current & Coil, dual inputs (A+B, A-B, A÷B)
Pulse Output:	NPN transistor, Scalable (20hz, 100mA max.)
Rate Outputs:	4-20mA into 750 ohms@24Vdc, NPN/PNP solid state & relay options
Linearisation:	10-point correction
Intrinsic Safe Option:	Exia IIB T4 (IECEX / ATEX)
Battery Power:	Life expectancy 5 years (Unit draws about 70µA under battery). *Battery life reduces when rate is displayed and power is not connected.*
External Power:	Regulated 8-24VDC x 50mA min (Reverse polarity protected)
Configuring:	PIN protected data entry
Protection Class:	IP66/67 (NEMA 4X) 3 x M16 x 1.5 female conduit entries
K-factor Range:	Scale factor i.g. pulses/litre, gallon, etc. programmable range 0.001 - 999,999.999
Engineering Units:	Selectable Ltr, gal, m^3, kgs, lbs (total)./sec,/min./hr or day (rate)

EB10 Series Batch Controller

The EB10 Ecobatch is a fully programmable high speed batch controller specifically designed to operate with common pulse producing flowmeters such as positive displacement, turbine, mass, vortex or magnetic style.

The instrument displays batch value, batch progress & cumulative total in engineering units as programmed by the user, it also logs the total number of batches performed and total volume dispensed.

EB10 scrolls messages to prompt the user at each stage of operation. Batch limiting and no-flow detection are "safeguards" against erroneously high batch entries, loss of the flow input signal or control valve or pump failure.

Features and Benefits:

- ✓ Large 8 digit batch & cumulative total LCD
- ✓ Robust IP66/67 universal mount or DIN panel mount version
- ✓ Simple programming
- ✓ PIN protected programming
- ✓ Scaleable flow inputs
- ✓ Two stage control
- ✓ Automatic overrun compensation
- ✓ Missing pulse (no flow) alarm
- ✓ Maximum batch size limiting
- ✓ Non volatile memory
- ✓ Multiple batcher interlock function
- ✓ Remote Run, Stop, batch set, etc

MODEL CODE

EB10 = Single & two stage high speed batch controller (cumulative & batch totals)

INPUT TYPE

D = Digital (pulse or frequency)

POWER SUPPLY

0 = 12-24 VDC, 50mA (FM, MM, FA, MA only)
1 = 95-135Vac DIN only
2 = 190-260Vac DIN only

HOUSING TYPE

FM = Universal mount (field or panel) GRN housing
MM= Integral meter mount - GRN housing*
FA = Universal mount (field, surface, pipe, wall, stem or panel mount)
MA = Integral meter mount
PM = DIN panel mount 91 x 91mm (3.6 x 3.6") cut out
FE = DIN mount field enclosure IP66 (NEMA 4x)

EB10 + D + 0 + FA ← (Sample Model Number)

EB10 - SPECIFICATIONS

Liquid crystal display (LCD):	9mm high alpha numeric characters + subscripts
Batch & Accumulated Totals:	8-digit, programmable to 3 decimal places
Engineering Units Displayed:	Litres, gallons, m3, lbs, kgs or nil eng. units displayed
Input Types (Pulse & Frequency):	Reed switch, open collector, coil (15mV P-P min.), current, voltage, namur & other proximities. Max. frequency 10Khz
Input Scaling Range:	0.001-9,999,999.999 with 3 floating decimal points
Control Outputs:	(Field Mount) Two 1A NPN open collectors, 24Vdc max.
	(Panel Mount) Two SPDT 5A relays (with DIN versions)
Alarm output (No flow alarm):	1A open collector (NPN/PNP selectable), 24Vdc max.
Operating Temperature:	-10 to +80°C (14 to 176°F), refer to factory for higher/lower temp.
Power Requirements:	12-24Vdc, 50mA, 95-260Vac (DIN version)
Status Interlocks:	Batch status output, batch inhibit input, network looping
Enclosures:	IP66/67 (NEMA 4X) GRN field mount or DIN panel mount
Mounting:	Meter mount, wall, surface, pipe or panel mount
Batching Systems Example	Ecobatch with flowmeter & control valve eg: UM020 system 1-70 L/min, 10 bar, 90°C (0.3-18 Usgpm, 145psi, 195°F)

Need help choosing the right meter?
Complete this form and submit 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._____

Velocity _____

Pipe Material*_____ % of Solids* _____

Pipe O.D.* _____ % of Air*_____

Pipe Wall Thickness* _____

Nominal Pipe Size* _____ Schedule*_____

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 _____

*For Ultrasonic Flowmeters

REFERENCE MATERIALS

This section includes general reference materials including Meter Dimensions and Chemical Compatibility Charts. Use the "Meter Application Guide" to help select the best GPI Meter for your application. Feel free to contact GPI for assistance when determining the correct Meter and Electronics.

Chart of Approximate Viscosities of Common Liquids

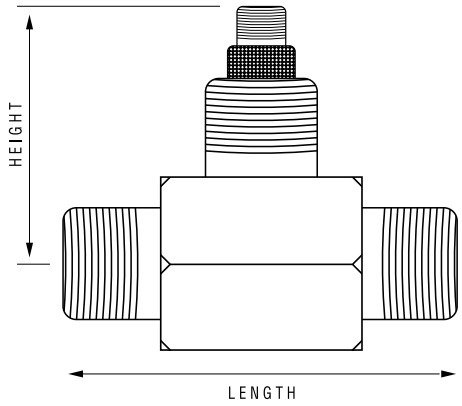
Liquid	Viscosity in Centipoise @ 70°F	S S U Approximate
Sulfuric Acid	0.2	
Methyl Ethyl Ketone	0.4	
Water	1	
Milk	3	
Oil – Crude	15	80
Ethylene Glycol	16	80
Oil – Auto SAE 10	65	310
Oil – Corn	72	350
Oil – Auto SAE 20	125	585
Oil – Auto SAE 30	200	980
Varnish – Spar	420	2,050
Oil – Auto SAE 60	1,000	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 here 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

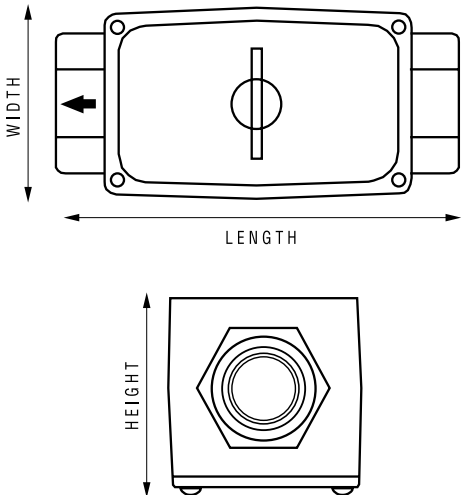
G Series Precision Meters



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

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

G2 Series 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)

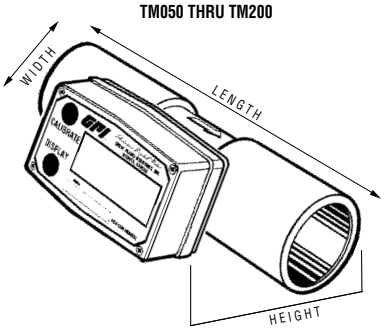
NOTE: 09 Display adds 0.67 in. (17 mm) to height.

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

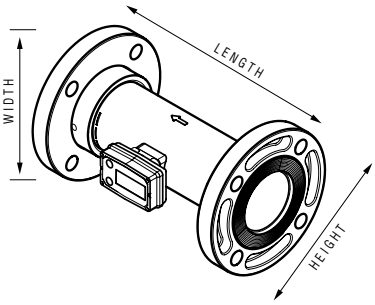
Meter DIMENSIONS

TM Meters

TM050 THRU TM200



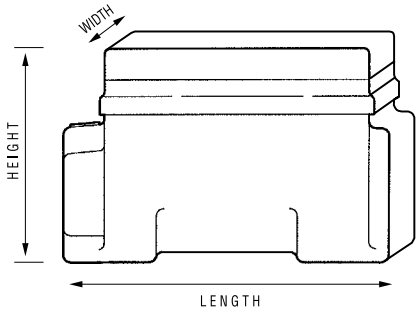
TM300 & TM400



Model	Length* inches (mm)	Height** inches (mm)	Width inches (mm)
TM050	3.8 (96)	2.6 (66)	2.0 (51)
TM050-N	5.8 (147)	2.6 (66)	2.0 (51)
TM075	3.8 (96)	2.7 (68)	2.0 (51)
TM075-N	5.8 (147)	2.7 (68)	2.0 (51)
TM100	4.1 (104)	3.1 (79)	2.0 (51)
TM100-N	6.1 (155)	3.1 (79)	2.0 (51)
TM150	5.4 (137)	3.7 (94)	2.1 (53)
TM150-N	7.4 (188)	3.7 (94)	2.1 (53)
TM200	5.5 (140)	4.2 (107)	2.4 (61)
TM200-N	7.5 (190)	4.2 (107)	2.4 (61)
TM300 (Spigot)	11.5 (292)	5.34 (136)	3.5 (89)
TM400 (Spigot)	13.5 (343	6.34 (161)	4.5 (114)
TM300 (NPT)	14.7 (373)	5.78 (147)	4.37 (111)
TM400 (NPT)	17.0 (432)	6.76 (172)	5.34 (136)
TM300 (Flange)	12.0 (305)	7.5 (190)	7.5 (190)
TM400 (Flange)	14.0 (356)	9.0 (229)	9.0 (229)

* Length guidelines are estimates; actual length can vary up to ± 1/2".
•• Display display adds 1.1 in. (28 mm) to height.

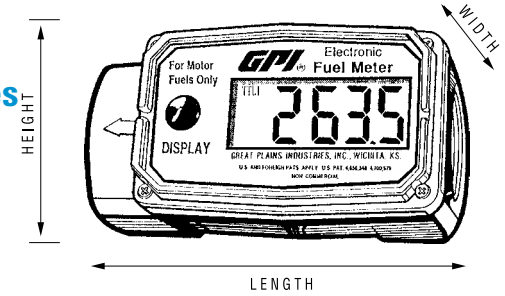
A1 Series Meters



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)

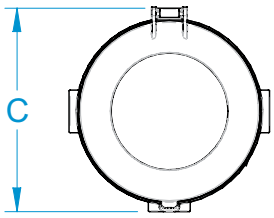
Economy Meter

01 Series



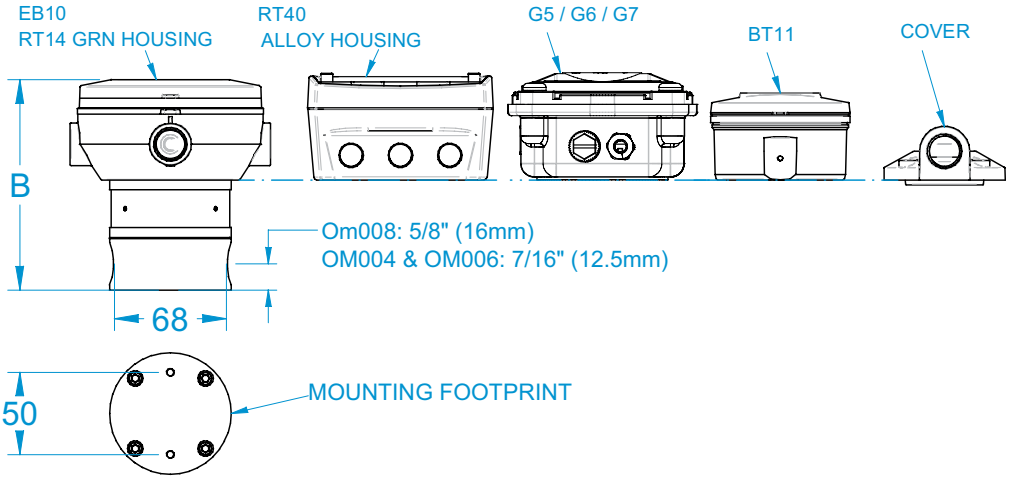
Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
01A	4.0 (102)	2.5 (63)	2.0 (51)
01N	4.0 (102)	2.5 (63)	2.0 (51)

OM Series Oval Gear Meters



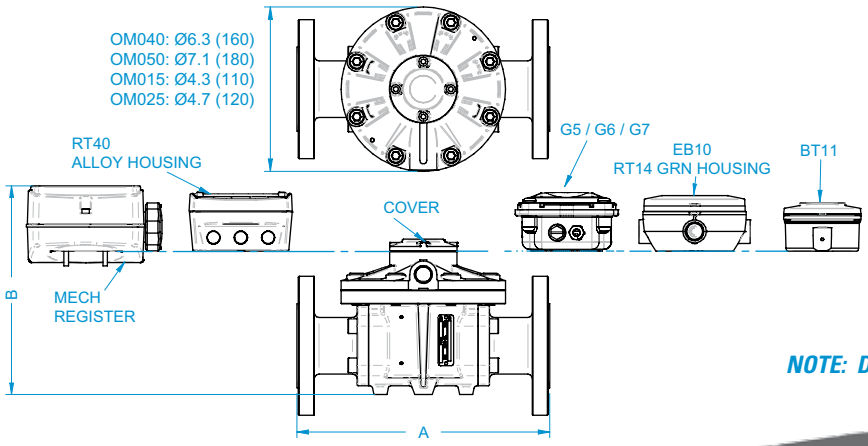
All dimensions are inches ± .079 (millimeters ±2mm)

OPTION	B			C
	OM004	OM006	OM008	
EB10 / RT14 GRN HOUSING	4.8 / 122	4.8 / 122	5.0 / 129	4.9 / 124
RT40 ALLOY HOUSING, G5 / G6 / G7	4.9 / 125	4.9 / 125	5.2 / 132	3.8 / 96
BT	4.4 / 113	4.4 / 113	4.7 / 120	3.7 / 94
COVER	3.6 / 92	3.6 / 92	3.9 / 99	2.8 / 72



All dimensions are inches ± .079 (millimeters ±2mm)

MODULAR FITTING	A						CONFIGURATION	B							
	OM015	OM025A	OM025S	OM040	OM050	OM050E		OM015A	OM015S	OM025A/P	OM025S	OM040A	OM040S	OM050	OM050E
A.N.S.I. 150 DIN16 JIS 10K	7.4 (189)	7.8 (198)	9.3 (237)	9.9 (252)	10.9 (277)	10.9 (277)	EB10/RT14 GRN Housing	6.0 (154)	5.8 (148)	6.6 (168)	6.5 (165)	7.9 (203)	7.6 (194)	8.6 (218)	10.5 (268)
							BT11 Register	5.7 (145)	5.5 (139)	6.3 (160)	6.2 (157)	7.8 (198)	7.3 (186)	8.3 (210)	10.2 (260)
							RT40 Alloy Housing, G5 / G6 / G7	6.2 (157)	5.9 (151)	6.7 (171)	6.6 (168)	8.1 (206)	7.8 (197)	8.7 (221)	10.7 (271)
B.S.P N.P.T.	4.3 (110)	5.4 (137)	6.9 (176)	7.4 (188)	8.3 (212)	8.3 (212)	Cover	4.2 (106)	3.9 (100)	4.7 (123)	4.6 (117)	6.1 (155)	5.7 (146)	6.7 (170)	8.6 (220)
							Mech. Register	7.0 (178)	6.9 (176)	7.4 (188)	8.4 (214)	8.9 (227)	8.7 (222)	9.3 (237)	11.3 (286)

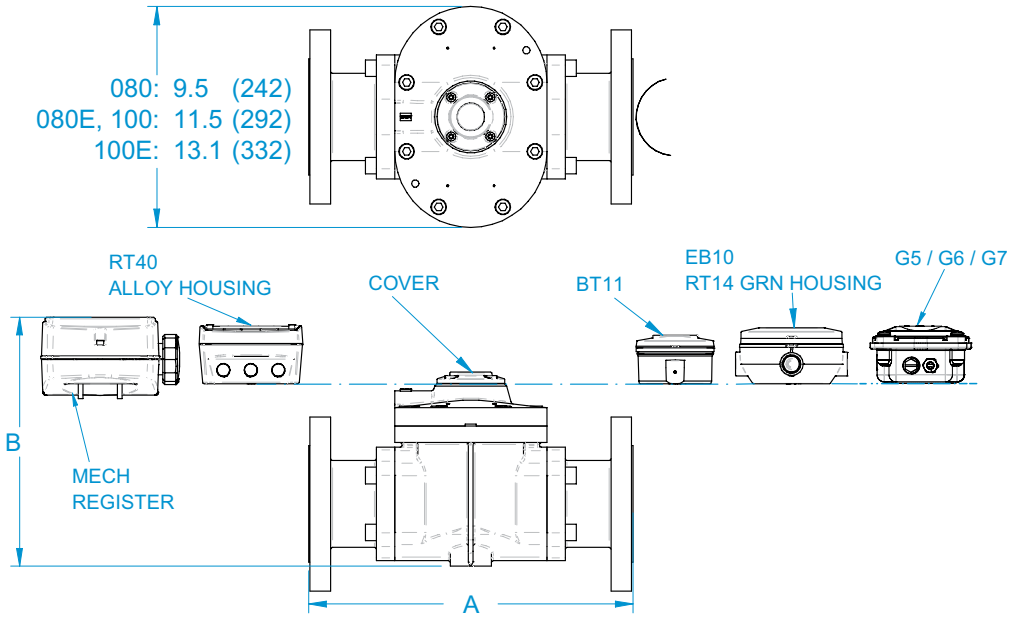


NOTE: Dimensions are for reference only and may vary by model.

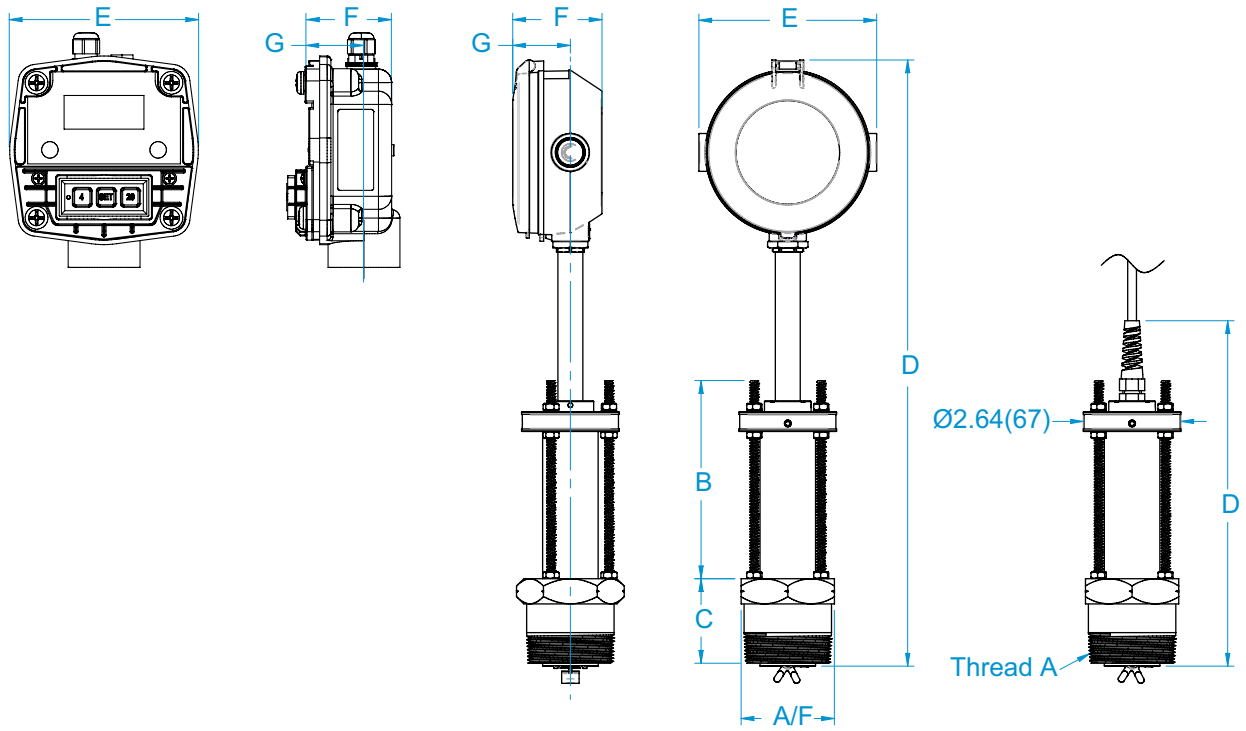
Meter DIMENSIONS

All dimensions are inches ± .079 (millimeters ±2mm)

MODULAR FITTING	A				CONFIGURATION	B				
	OM080	OM080E	OM100	OM100E		OM080A	OM080S	OM080E	OM100	OM100E
A.N.S.I. 150 DIN16 JIS 10K	13.9 / 354	15.0 / 382	15.3 / 388	16.3 / 414	EB REGISTER / RT14 GRN HOUSING	10.2 / 260	10.1 / 257	10.9 / 277	12.7 / 322	15.7 / 399
					BT REGISTER	9.9 / 252	10.2 / 259	10.6 / 269	12.3 / 314	15.4 / 391
					RT40 REGISTER ALLOY HOUSING, G5 / G6 / G7	10.3 / 264	10.2 / 260	11.0 / 281	12.8 / 326	15.8 / 403
B.S.P. N.P.T	10.5 / 266	11.6 / 294	11.6 / 294	12.6 / 320	COVER	8.4 / 213	8.1 / 206	9.0 / 229	10.7 / 274	13.9 / 352
					MECH. REGISTER	10.6 / 270	N/A	11.3 / 288	13.1 / 333	16.4 / 416



DP Insertion Impeller Meter



Overall Dimensions

CONFIGURATION	DP490	DP525	
A	1.5" BSP/NPT	2" BSP/NPT	All dimensions are inches ± .08 (millimeters ±2mm)
B	7.79 (198)	17.48 (444)	
C	1.5 (38)	2.28 (58)	
A/F	2.38 (60)	2.5 (64)	

	DP490	DP525	DP490 / DP525		
CONFIGURATION	D	D	E	F	G
Terminal Head	15.16 (385)	34.21 (869)	--	--	--
BT Register	15.51 (394)	34.65 (880)	3.35 (85)	2.09 (53)	--
RT40 Register	14.96 (380)	34.06 (865)	4.45 (113)	2.48 (63)	1.89 (48)
RT14/EB Register	16.34 (415)	35.43 (900)	4.80 (122)	2.40 (61)	--
Flying Lead	9.33 (237)	16.69 (424)	--	--	--
BT / RT14/EB Register	--	--	--	--	1.57 (40)
*GG510-DB, GX510-DB	17.54 (445-5)	36.63 (930.4)	4.2 (106.7)	2.50 (63.5)	1.7 (43.2)

*Display Sold Separately

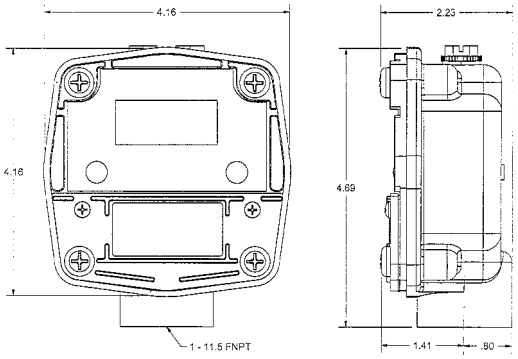
NOTE: Dimensions are for reference only and may vary by model.

Meter DIMENSIONS

Electronic Choice - Local & Remote

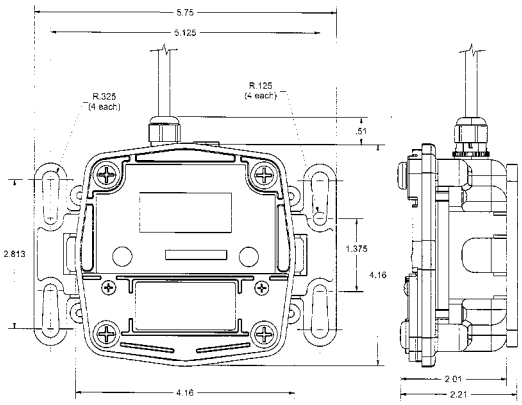
(Dimensions can vary by model.)

Local Model



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

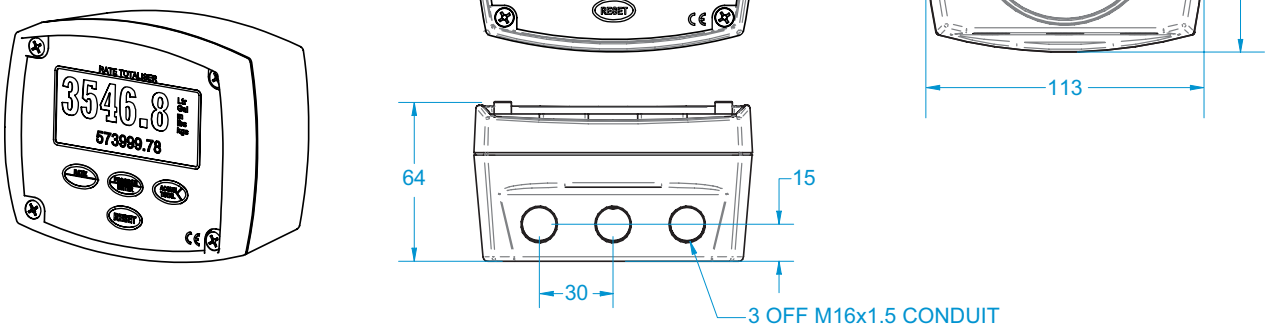
Remote Model



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

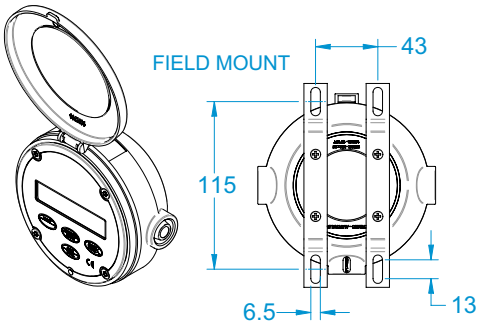
* Includes Mounting Bracket
† Includes Strain Relief

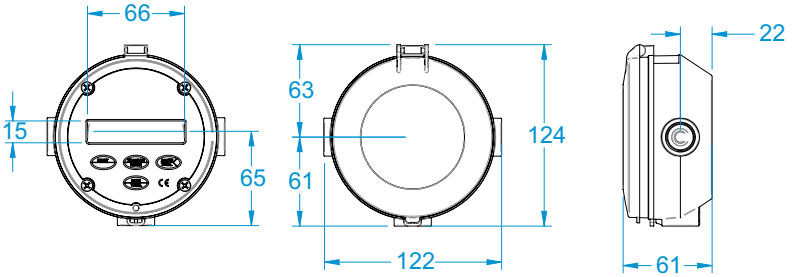
RT40 Rate Totalizer



RT14 Rate Totalizer

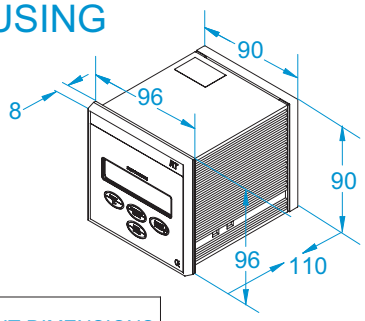
STANDARD ENCLOSURE





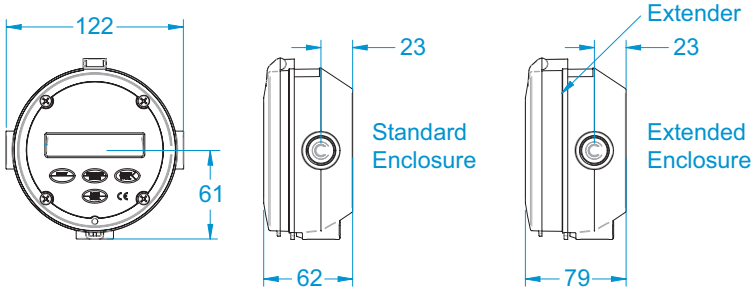
EB10

DIN PANEL MOUNT HOUSING



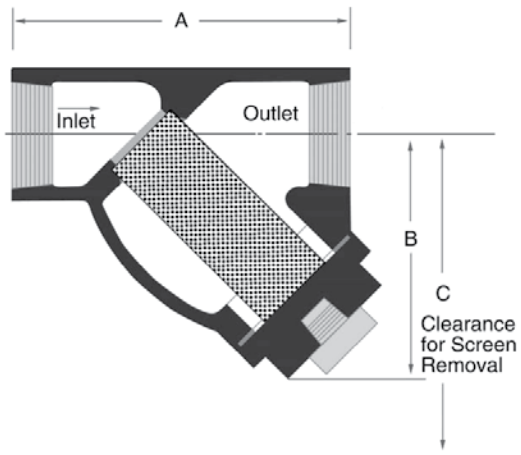
CUTOUT DIMENSIONS
91mm x 91mm

FIELD ENCLOSURES



Y STRAINERS For Oval Gear Meters

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.
- ✓ 316 Stainless Steel body and 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 STRAINER – 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"

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.

The Approval symbol is listed under product specifications on individual product pages. If no approval mark is found, check the chart to the right. 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 Ex	**Ex II 1 G** Per 94/9/EC.
CE	Product reviewed for EMC Directive 2004/108/EC. Includes: Euro Norms 61000-6-2 (2005) and 61000-6-3 (2007) on A1 and G2 Series Meters. Note: For **Oval Gear Meters**, the CE Approval is applied when meter is part of a system.
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.
FM C US APPROVED	**Factory Mutual Approved** Class 1, Div. 1, Group D (01A31GM Only)
FM C APPROVED	**Factory Mutual Approved** Intrinsically safe for Class I & II, Div. 1, Groups A, B, C, D, E, F & G, T6 Ta=-40° C to 60° C hazardous locations, and for use in Class I, Zone 0 as Ex is IIC T6 Ta=-40° C to 60° C.
FC	**Federal Communication Commission** Industry Canada Approval Class B; digital service, part 15 of FCC Rules.
IEC IECEx	**Ex ia IIC T6 Ta=60° C**
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 that will be undamaged by the external formation of ice on the enclosure. *GPI products are tested to NEMA requirements.*
RoHS	Restriction of Hazardous Substances Directive 2002/95/EC and 2011/65/EU
SA C US	Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.

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	N	R
Alcohols: Isobutyl	R	R	X	R	R	R	R	X	X	R	X	X	R	R	R	R	R	X	R	R	R	R	R	R
Alcohols: Isopropyl	R	R	X	R	R	R	R	R	R	R	X	X	R	R	R	R	R	R	R	R	R	R	R	R
Alcohols: Methyl	R	R	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R
Ammonia, Anhydrous	N	R	N	R	R	R	R	X	X	N	R	R	R	R	X	R	R	X	R	N	R	R	R	R
Ammonia, Liquid	N	R	X	R	R	R	R	X	R	N	R	R	R	R	R	R	R	X	R	N	R	R	N	R
Ammonium Hydroxide	N	R	N	R	R	R	R	N	N	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	N	R	R	N	R
Calcium Chloride	R	N	X	N	R	R	N	X	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Calcium Hypochlorite	N	N	X	N	R	R	R	X	X	N	R	R	R	R	R	R	N	R	R	R	R	R	N	R
Carbon Tetrachloride (wet)	R	N	R	R	R	R	X	X	X	R	R	R	R	X	R	R	X	X	R	X	R	N	N	R
Carbonic Acid	R	R	N	R	R	R	R	X	R	R	R	R	R	R	R	R	R	X	R	R	R	R	N	R
Chlorine Water	R	N	N	N	N	R	R	X	N	N	N	R	R	N	R	X	R	R	R	R	R	N	N	R
Chlorine, Anhydrous Liquid	N	N	N	N	N	N	N	X	X	R	N	R	R	N	R	N	X	N	N	R	R	R	N	R
Clorox® Bleach (Sodium Hypochlorite)	X	N	X	R	R	R	R	R	N	N	N	R	R	R	X	R	N	X	R	R	R	R	N	R
Detergents	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	R	R	X	X	R	R	R	R	R	X	R	R	R	R	N	R
Ethylene Dichloride	N	R	R	R	R	R	N	X	X	R	R	R	R	R	R	R	R	X	R	R	R	N	N	R
Ethylene Glycol	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Ferric Chloride	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	X	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	X	R	N	R	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	N	R	R	R	N	N	N	R	R	N	R	N	N	R	R	R	R	N	X	R
Hydrochloric Acid 37%	N	N	X	N	N	R	R	X	N	N	N	R	R	R	R	N	N	R	R	R	R	R	R	R
Hydrochloric Acid 100%	N	N	N	N	N	R	N	N	N	N	N	R	R	R	R	R	N	R	R	R	R	N	N	R
Hydrofluoric Acid 20%	R	N	X	N	N	R	R	R	N	N	R	R	R	N	X	N	N	R	R	R	R	N	N	R
Hydrofluoric Acid 100%	R	N	X	R	R	R	N	N	N	N	N	R	R	N	R	N	N	R	R	R	R	N	N	R
Hydrogen Peroxide 10%	R	R	X	R	R	R	R	R	N	N	R	R	R	R	N	R	N	R	R	R	R	R	N	R
Hydrogen Peroxide 30%	R	R	X	R	R	R	R	X	N	N	R	R	R	R	N	X	N	R	R	R	R	R	N	R
Hydrogen Peroxide 100%	R	R	N	R	R	R	R	X	N	N	N	R	R	R	N	X	N	R	R	R	R	N	N	R
Isopropyl Acetate	R	N	X	N	R	R	N	X	X	N	X	N	R	R	R	R	R	X	R	N	R	R	N	R
Kerosene	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R
Ketones	R	R	X	R	R	R	N	X	X	N	R	N	R	R	R	R	R	X	R	N	R	R	N	R

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)
Lacquer Thinners	R	R	R	R	R	R	N	X	X	N	X	X	R	X	R	X	R	X	R	N	R	N	N	R
Lacquers	R	R	X	R	R	R	N	X	X	N	X	N	R	R	R	R	R	X	R	N	R	N	N	R
Lye: NaOH Sodium Hydroxide	N	N	N	R	R	N	R	X	X	N	R	N	R	R	X	R	R	X	N	R	R	R	R	R
Magnesium Hydroxide	R	N	N	R	R	R	R	X	R	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R
Methanol (Methyl Alcohol)	R	R	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R
Methyl Ethyl Ketone	R	R	R	R	R	R	N	R	R	N	R	N	R	R	R	R	X	R	R	N	R	R	N	R
Motor Oil	R	R	X	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	X	X	R	N	R	R
Nitrating Acid (> 15% H2S04)	X	N	X	N	N	R	N	X	X	N	N	X	R	N	X	R	N	X	R	X	R	R	N	R
Nitric Acid (5-10%)	R	R	N	R	R	R	R	X	R	N	R	R	R	N	R	N	N	X	R	R	R	R	N	R
Nitric Acid (50%)	R	N	N	R	R	R	R	X	N	N	N	R	R	N	R	N	N	N	R	R	R	N	N	R
Nitric Acid (Concentrated)	R	N	N	R	R	R	R	R	N	N	N	R	R	N	N	N	N	N	R	R	R	N	N	R
Oils: Hydraulic Oil (Petro)	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R	R	X	R	R	R	N	R	R
Oils: Mineral	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R
Oils: Transformer	X	R	X	R	R	X	R	R	X	R	X	R	R	R	R	R	R	X	X	R	R	N	R	R
Phosphoric Acid (< 40%)	R	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	N	N	R	R	R	R	N	R
Phosphoric Acid (> 40%)	R	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	N	X	R	R	R	R	N	R
Potassium Chloride	R	N	N	R	R	R	R	R	R	R	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Potassium Hydroxide (Caustic Potash)	N	N	N	R	R	R	R	N	R	R	R	R	R	R	N	N	N	R	R	R	R	R	R	R
Potassium Hypochlorite	N	N	X	N	R	R	R	X	X	X	R	R	R	X	X	N	N	X	R	X	R	R	R	R
Propane (Liquefied)	R	R	R	R	R	R	R	X	R	R	X	R	R	R	R	R	R	X	R	R	R	N	R	R
Propylene Glycol	R	R	X	R	R	R	N	R	R	R	X	X	R	R	X	R	R	R	R	R	R	R	R	R
Salt Brine (NaCl Saturated)	R	R	X	R	R	R	R	X	X	X	R	R	R	R	R	X	N	X	R	R	R	R	R	R
Sea Water	R	R	N	N	N	R	R	R	X	R	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Soap Solutions	R	N	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Sodium Bicarbonate	R	N	N	R	R	R	R	R	X	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Sodium Chloride	R	N	N	R	R	R	R	R	R	R	R	R	R	R	R	R	N	R	R	R	R	R	R	R
Sodium Hydroxide (20%)	R	N	R	R	R	R	R	X	R	R	R	R	R	R	R	R	N	X	R	N	R	R	R	R
Sodium Hydroxide (50%)	N	N	N	R	R	N	R	X	R	R	R	R	R	R	X	R	N	X	N	N	R	R	R	R
Sodium Hydroxide (80%)	N	N	N	N	R	R	R	N	R	N	R	R	R	R	R	R	N	N	R	N	R	R	N	R
Sodium Hypochlorite (< 20%)	N	N	N	N	N	R	R	X	N	N	R	R	R	R	R	R	N	R	R	R	R	R	R	R
Sodium Hypochlorite (100%)	N	N	N	N	N	R	R	X	N	N	R	R	R	R	N	R	N	R	R	R	R	R	N	R
Sulfuric Acid (< 10%)	R	N	X	N	R	R	R	X	N	N	R	R	R	R	R	R	N	X	R	R	R	R	R	R
Sulfuric Acid (75-100%)	R	N	X	N	N	R	N	X	N	X	R	R	R	N	N	R	N	N	R	R	R	R	N	R
Toluene (Toluol)	R	R	R	R	R	R	N	N	R	N	R	R	R	R	R	R	R	R	R	N	R	N	N	R
Trichloroethylene	R	N	X	R	R	R	N	X	R	N	R	R	R	R	R	X	R	R	R	R	R	N	N	R
Vinegar	R	N	N	R	R	R	R	R	N	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Water, Deionized	X	N	R	R	R	R	R	X	X	X	R	R	R	X	R	R	X	X	R	R	R	R	R	R
Water, Distilled	R	N	R	R	R	R	R	R	X	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R
Water, Salt	R	N	N	R	R	R	R	X	X	R	R	R	R	R	R	R	R	X	R	R	R	R	R	R
Xylene	R	R	R	R	R	R	N	N	R	R	R	R	R	R	R	R	R	X	R	R	R	N	N	R

** GPI has done its best to ensure that the wetted parts of our meters are compatible as stated, but we cannot guarantee the part's compatibility with different fluid types. It is the user's responsibility to make sure that the process flow conditions, including, but not limited to concentration and/or temperature of the fluid being metered are compatible with the wetted parts of the meter.*

PRODUCT SELECTION *Matrix*

TURBINE

		ECONOMY	TM	A1	G2	G	TP
SIZE	1/8"						
	1/4"						
	3/8"						
	1/2"		1-10 GPM/3.8-37.9 LPM		1-12 GPM/3.8-45.4 LPM	.6-6 GPM/2.3-22.7 LPM	.5-5 GPM/1.9-18.9 LPM
	3/4"		2-20 GPM/7.6-75.7 LPM		2-20 GPM/7.6-75.7 LPM	1.6-23 GPM/6.1-87.1 LPM	1.8-36 GPM/6.8-136.3 LPM
	1"	3-30 GPM/11.4-113.6 LPM	5-50 GPM/18.9-189.3 LPM	.3-50 GPM/1.1-189.3 LPM	5-50 GPM/18.9-189.3 LPM	6.7-67 GPM/25.4-253.6 LPM	7-70 GPM/6.8-136.3 LPM
	1 1/2"	3-30 GPM/11.4-113.6 LPM	10-100 GPM/37.9-378.5 LPM	.3-50 GPM/1.1-189.3 LPM	10-100 GPM/37.9-378.5 LPM	17.7-177 GPM/67.0-670 LPM	15-150 GPM/56.8-567.8 LPM
	2"		20-200 GPM/75.7-757.1 LPM	30-300 GPM/113.6-1135.6 LPM	20-200 GPM/75.7-757.1 LPM	33-330 GPM/124.9-1249.2 LPM	33-330 GPM/124.9-1249.2 LPM
	3"		40-400 GPM/151.4-1514.2 LPM	30-300 GPM/113.6-1135.6 LPM		60-600 GPM/227.1-2271.3 LPM	60-600 GPM/227.1-2271.3 LPM
	4"		60-600 GPM/227.1-2271.3 LPM			60-600 GPM/227.1-2271.3 LPM	120-1200 GPM/454.2-4542.5 LPM
	> 4"						
ACCURACY	0.50%						
	0.75%				1 1/2" & 2"		
	1.0%				3/4" & 1"		
	1.5%				1/2"		
	2.0%						
	2.5%						
	3.0%						
	5.0%						
PRESSURE RATING	Low (≤300psi)				Brass, Al & PVDF	Sanitary	
	Medium (300-2000psi)				Stainless Steel	ANSI Flange	Flanged
	High (2000-6000psi)				High Pre Stainless	Threaded	Threaded
	Ultra High (>6000psi)						
BODY MATERIAL	PVC						
	PPS						
	Nylon						
	PVDF						
	PBT Polyester						
	Brass						
	Stainless						
	Aluminum						
	Noryl						
OUTPUT	Display						
	4-20mA						
	Scaled Pulse		QSI	QSI	QSI	SC500 & QSI	
	Unscaled Pulse						
	Dual Pulse						
	Comm.		QSI	QSI	QSI	QSI	QSI
	Btu		QSI	QSI	QSI	QSI	QSI
APPLICATION	Fuel	Aluminum		Aluminum	Aluminum		
	Lubes						
	Water	Nylon		Nylon	SS, Brass & PVDF		
	Chemicals			Lite Chemicals	SS & PVDF		
	Additive Injection						

OVAL GEAR

PRODUCT SELECTION *Matrix*

LM	EGM	D-SERIES	OM	UHP	AIM		
	.26-9.5 GPM/1-36 LPM		.26-9.5 GPM/1-36 LPM	.26-9.5 GPM/1-36 LPM	.26-9.5 GPM/1-36 LPM	1/8"	SIZE
	.5-27 GPM/2-100 LPM		.5-27 GPM/2-100 LPM	.5-27 GPM/2-100 LPM	.5-27 GPM/2-100 LPM	1/4"	
	4-145 GPM/15-555 LPM		4-145 GPM/15-555 LPM		4-145 GPM/15-555 LPM	3/8"	
.26-78 GPM/.98-29.5 LPM	.26-10.6 GPM/1-40 LPM	.26-10.6 GPM/1-40 LPM	.26-10.6 GPM/1-40 LPM			1/2"	
	.79-21.1 GPM/3-80 LPM					3/4"	
		2.6-40 GPM/10-150 LPM	2.6-40 GPM/10-150 LPM			1"	
		4-66 GPM/15-250 LPM	4-66 GPM/15-250 LPM			1 1/2"	
		9-150 GPM/30-580 LPM	9-150 GPM/30-580 LPM			2"	
		10-260 GPM/35-1000 LPM	10-260 GPM/35-1000 LPM			3"	
		20-660 GPM/75-2500 LPM	20-660 GPM/75-2500 LPM			4"	
						> 4"	
	1/2"-3/4"/15-20 mm	Elec. Disp.	1/2"-3/4"/5-20 mm Elec. Dsp.			0.50%	ACCURACY
						0.75%	
	1/8"-3/8"/4-8 mm	Merch. Disp.	1/8"-3/8"/4-8 mm Mech Dsp			1.0%	
						1.5%	
						2.0%	
						2.5%	
						3.0%	
						5.0%	
	1/2" - 3/4"	2" - 4"	PPS, AL ≤ 3/8", AL 2"-4"			Low (≤300psi)	PRESSURE RATING
	1/8" - 3/8"	1/2" - 1 1/2"	SS, AL 1/2" - 1 1/2"			Medium (300-2000psi)	
			High Pressure SS			High (2000-6000psi)	
						Ultra High (>6000psi)	
						PVC	BODY MATERIAL
						PPS	
						Nylon	
						PVDF	
						PBT Polyester	
						Brass	
						Stainless	
						Aluminum	
						Noryl	
						Display	OUTPUT
						4-20mA	
						Scaled Pulse	
						Unscaled Pulse	
						Dual Pulse	
			QSI			Comm.	
			QSI			Btu	
			SS & Aluminum			Fuel	APPLICATION
			SS, PPS & Aluminum			Lubes	
	SS only		SS & PPS			Water	
	SS only		SS & PPS			Chemicals	
	SS only		SS only			Additive Injection	

PRODUCT SELECTION *Matrix*

		NUTATING DISC	IMPELLER	SINGLE JET		ULTRASONIC TRANSIT TIME	ELECTROMAGNETIC
		FM300	DP	TMT	UM	QS600	QSE Mag
SIZE	1/8"						
	1/4"			.8-240 GPM/3-900 LPM			
	3/8"						
	1/2"					0-18.36 GPM/0-69.5 LPM*	.18-9 GPM/.68-34.1 LPM
	3/4"				.13-19 GPM/.5-70 LPM	0-41.34 GPM/0-156.4 LPM*	
	1"	2-20 GPM/7.6-75.7 LPM				0-73.44 GPM/0-278 LPM*	
	1 1/2"		6-182 GPM/21-684 LPM			0-165.24 GPM/0-625.5 LPM*	
	2"		10-324 GPM/37-1216 LPM			0-293.76 GPM/0-1112.0 LPM*	
	3"		22-730 GPM/82-2736 LPM			0-660.96 GPM/0-2502.0 LPM*	
	4"		39-1296 GPM/146-4860 LPM			0-1175.04 GPM/0-4448 LPM*	
	> 4"		Up to 785K GPM/2,945K LPM			0-734K GPM*	
ACCURACY	0.50%				With electronic display		
	0.75%						
	1.0%			001-002			
	1.5%			003-004			
	2.0%			005-006			
	2.5%						
	3.0%						
	5.0%						
PRESSURE RATING	Low (≤300psi)						
	Medium (300-2000psi)						
	High (2000-6000psi)						
	Ultra High (>6000psi)						
BODY MATERIAL	PVC						
	PPS						
	Nylon						
	PVDF						
	PBT Polyester						
	Brass						
	Stainless						
	Aluminum						
	Noryl						
OUTPUT	Display						
	4-20mA						
	Scaled Pulse						
	Unscaled Pulse						
	Dual Pulse						
	Comm.						QSI
	Btu						QSI
APPLICATION	Fuel						
	Lubes						
	Water						
	Chemicals						
	Additive Injection						

BETTER
performance

HIGHER
quality

LOWER
cost

Wichita · Sydney · Mexico City

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