

# FLOWMETER CATALOG

# **FLOWMEC**<sup>®</sup>



## 仕揚股份有限公司

網站:[www.gpimeter.com.tw](http://www.gpimeter.com.tw)

信箱:[mtctech@ms43.hinet.net](mailto:mtctech@ms43.hinet.net)

電話:02-2567-2677~8

傳真:02-2567-2709

## GPI/FLOMEC 產品系列 G2 工業級(渦輪式流量產品)



SIZE : 1/2"–2"  
FLOW RANGE : 3.8 LPM–760 LPM  
PRESSURE : Max 1500 Psi  
MATERIAL : 316 Stainless Steel  
TEMPERATURE : 60°C (Standard)



PRESSURE : Max 3000 Psi  
TEMPERATURE : 80°C分離可至 120°C



SIZE : 1/2"–3/4"(國內加工)  
1"– 2" (可在國內、  
國外加工)

## A2 鋁合金產品



SIZE : 1/2"–2"  
FLOW RANGE : 3.8 LPM–760 LPM  
PRESSURE : Max 300 Psi  
MATERIAL : Aluminum  
TEMPERATURE : Max 60°C

## G2S Tri-Clamp (衛生夾接頭)



SIZE : 3/4"–2" Tri - Clamp  
FLOW RANGE : 3.8 LPM–760 LPM  
PRESSURE : Max 10Kg / cm<sup>2</sup>  
MATERIAL : 316 SUS  
TEMPERATURE : Max 121°C (分離式)



SIZE : 3/4"–2" Tri - Clamp  
FLOW RANGE : 3.8 LPM–760 LPM  
OUTPUT : 33 HZ–470 HZ  
(NPN Open Collector 或  
4 - 20mA 類比輸出)

## 3A 衛生級 Meter



CSCP 3A Sanitary  
SIZE : 1"–2"  
FLOW RANGE : 26 LPM–1278 LPM  
PRESSURE : Max 10Kg / cm<sup>2</sup>  
TEMPERATURE : Max 140°C  
ACCURACY : ± 0.5% REP : ± 0.1%

## TP 渦輪流量計



SIZE : 1/2"–4"  
FLOW RANGE : 1.8 LPM–4500 LPM  
ACCURACY : ± 0.5%  
TEMPERATURE : - 40°C TO 232°C  
PRESSURE : 250 bar

## PVC 純水系列產品(TM Water Meter)



SIZE : 1/2"–4"  
FLOW RANGE : 3.8 LPM–2217 LPM  
PRESSURE : 225 Psi  
TEMPERATURE : Max 60°C  
MATERIAL : PVC  
接頭：插管式、牙接式、法蘭式



法蘭：1/2"–2" (國內加工)  
3"–4" (國內外加工)  
牙口：1/2"–4" (NPT 接續)  
插管：1/2"–4" (膠合)

## G2 產品系列(PVDF 材質產品)



SIZE : 1/2"–1"  
FLOW RANGE : 4.5 LPM–190 LPM  
PRESSURE : Max 100 Psi  
MATERIAL : PVDF  
TEMPERATURE : Max 80°C



OUTPUT : Pulse : 33 HZ–470 HZ  
類比輸出：4–20mA



## 01 Economy Fule / Water Meter (經濟型)



01A - Fuel Meter

SIZE : 1" ISO / BSPP  
FLOW RANGE : 10 LPM—100 LPM  
PRESSURE : Max 20 bar  
MATERIAL : Aluminum  
TEMPERATURE : Max 60°C



01N - Water Meters

SIZE : 1" ISO/NPT  
FLOW RANGE : 10 LPM—100 LPM  
PRESSURE : Max 10 bar  
MATERIAL : Nylon  
TEMPERATURE : Max 60°C

## Disc Meter 耐酸鹼



MODEL : FM - 300 H  
SIZE : 1" NPT  
FLOW RANGE : 7 LPM—75 LPM  
PRESSURE : Max 3.4 bar  
TYPE : Nutating Disc  
HOUSING : PBT Polyester

## LM Lube Meter (潤滑油)



LM51M

SIZE : 1/2" NPTF  
FLOW RANGE : 1 LPM—30 LPM  
PRESSURE : 10Kg / cm<sup>2</sup>  
VISCOSITY : 5 Cps—1000 Cps  
TEMPERATURE : Max 60°C  
ACCURACY : ± 0.5%

## OM-Oval Gear Meter (齒輪式)



SIZE : 1/8"–4"  
FLOW RANGE : 0.5 LPH–550 LPH  
0.26 LPM–1500 LPM  
PRESSURE : 145 Psi–5800 Psi  
TEMPERATURE : Max 150°C  
ACCURACY : ± 0.5% REP : ± 0.02%  
高精度小流量計



Stainless Oval Gear  
SIZE : 1/2"–3"  
FLOW RANGE : 0.26 GPM–200 GPM  
1.00 LPM–757 LPM  
ACCURACY : ± 0.5% REP : ± 0.03%  
MATERIAL : Stainless Steel  
配合機械式錶頭



Aluminum Oval Gear  
SIZE : 1/2"–4"  
FLOW RANGE : 0.26 GPM–400 GPM  
1.00 LPM–1514 LPM  
ACCURACY : ± 0.5% REP : ± 0.03%  
MATERIAL : Aluminum  
鋁合金流量計

## PPS Oval Gear Meter (經濟型)



SIZE : 1"  
FLOW RANGE : 10 LPM–150 LPM  
ACCURACY : ± 0.5%  
PRESSURE : Max 70 Psi  
TEMPERATURE : Max 60°C  
Display / Pulse Output / 4 - 20mA

## Q9 Meter



顯示：累積量：6 位數 LCD  
流 速：6 位數 LCD  
歸零量：6 位數 LCD  
單 位：Litre、Gallon  
密 碼：Lock、Unlock  
精 度：內部參數修正

## RT14 Meter



顯示：累積量：8 位數 LCD  
流 速：8 位數 LCD  
輸入頻率：1.2 KHZ—120 KHZ  
輸 出：Pulse / 4—20mA  
電源供給：12 V—30 V

## E18 Meter



防爆型顯示器  
顯示：累積量：11 位數 LCD  
流 速：7 位數 LCD  
輸入頻率：0 HZ—7 KHZ  
輸 出：Pulse / 4—20mA  
Explosion：IECEX、FM、ATEX

## 簡易型輸出



簡易型輸出 Meter  
顯示：Totalizer：6 位數 LCD  
Resttable：6 位數 LCD  
(用於油、水，低價位，可配合錶頭控制)

## QSE Mag Flow Meter (電磁式流量計)



SIZE : 1/2"–4"  
FLOW RANGE : 0.63 LPM–2271 LPM  
PRESSURE : Max 150 Psi (10 bar )  
TEMPERATURE : Max 60°C  
Display / Pulse Output



VOLOCITY : 0.25 FPS–15 FPS  
ACCURACY :  $\pm 0.5\%$  of Reading  
TEMPERATURE : 0°C – 99°C  
K-Factor : 18 PPL–1158.5 PPL

## TMQ Ultrasonic Flow Meter (超音波流量計)



PIPE SIZE : 1" TO 4" (Nine Pipe PVC Tee)  
ACCURACY :  $\pm 2\%$   
FLOW RANGE : 0.03 TO 4.6 m/s  
PRESSURE : 150 Psi (10 bar )  
TEMPERATURE : Max 60°C  
OUTPUT : 0 HZ TO 100 HZ  
DISPLAY : TOTALIZER : 6 Digits Counter  
          FLOW RATE : 6 Digits Counter  
          RESTTABLE : 6 Digits Counter  
K- Factor : 0.5575–7.9062  
PIPE : 6" TO 12" (Saddle Material Aluminum Alloy)

## DP Meter (插管式)



### (大管徑流量計)

SIZE : 1.5" – 100"

FLOW RANGE : 0.25 – 6300 L/S  
0.4 – 49000 L/S

LINEARITY : 1 – 10 m/s

ACCURACY :  $\pm 1.5\%$  REP  $\pm 0.5\%$

PRESSURE : Material 80 bar

TEMPERATURE : Max 100°C

BODY : 316SUS 、 Rotor : Peek



顯示：累積量：6 Digits Counter  
設定量：6 Digits Counter  
輸出：警報(二段式)



顯示：累積量：9 Digits Counter  
流速：5 Digits Counter  
精度：0.03% FS  
輸出：警報(二段式)  
4 - 20mA  
PS485 通信

反應速度： $< 1/f + 10$  ms

認證：CE 認證

(其它錶頭搭配，請來電索取，本公司提供詳細目錄)



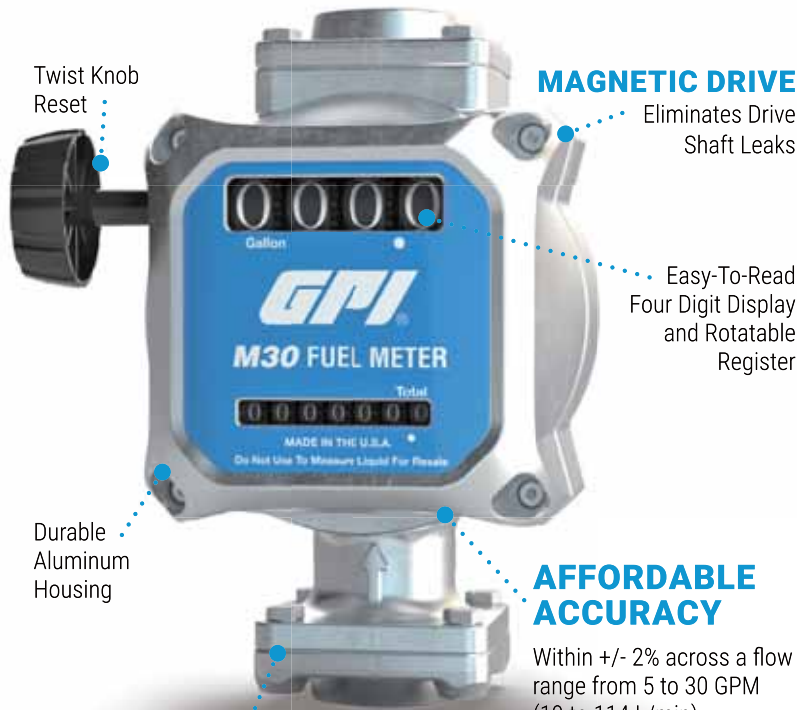


## > Mechanical Fuel Meter

# M30

**5-30  
GPM**  
19 - 114  
L/min

**0000**  
MECHANICAL  
& DIGITAL  
METERS



Twist Knob  
Reset

### MAGNETIC DRIVE

Eliminates Drive  
Shaft Leaks

Easy-To-Read  
Four Digit Display  
and Rotatable  
Register

Durable  
Aluminum  
Housing

### AFFORDABLE ACCURACY

Within +/- 2% across a flow  
range from 5 to 30 GPM  
(19 to 114 L/min).

### QUICK-FIT MODULAR

- Easily attaches to the new modular fuel transfer pumps
- Simple four-bolt connections

- Batch total and cumulative total display
- Calibration screw



### ACCURACY

± 2%

### TECHNOLOGY

Nutating Disc

### MAXIMUM WORKING PRESSURE

50 psi (3.4 bar)

### OPERATING TEMPERATURE

-40° to 125° F / -40° to 52° C  
(-20° to 125° F UL)

### HOUSING, COVER, FITTINGS

Corrosion-Resistant Diecast  
Aluminum

### INLET/OUTLET THREADS

3/4 in. NPT or 1 in. NPT  
or 1 in. BSPP

### MAXIMUM BATCH TOTAL

999.9

### MAXIMUM CUMULATIVE TOTAL

999,999.9

### WARRANTY

5 Year

## > Ordering Information

Part No.	Model	Thread	Units
165100-03	M30-G6N	3/4 in. NPT	Gallons
165100-04	M30-L6N	3/4 in. NPT	Litres
165100-01	M30-G8N	1 in. NPT	Gallons
165100-02	M30-L8N	1 in. NPT	Litres

ACCESSORIES	Part No.
Fitting, 90° Meter, 1" Male NPT	139130-03
Modular Hardware Kit: Modular Adapter, Outlet 1 in.	162205-01

# GPRO® > Mechanical Fuel Meter

## QM40

**2-40  
GPM**  
**8 - 150  
L/min**

### MAGNETIC DRIVE

Eliminates Drive Shaft Leaks

### OVAL GEAR TECHNOLOGY

Usually found in meters costing 10x more



#### TECHNOLOGY

Positive Displacement

#### MAXIMUM WORKING PRESSURE

50 psi (3.4 bar)

#### PRESSURE DROP (AT MAX FLOW)

Diesel: 7.0 psi (0.5 bar)  
Unleaded: 4.5 psi (0.3 bar)

#### OPERATING TEMPERATURE

-40° to 125° F / -40° to 52° C  
(-20° to 125° F UL)

#### HOUSING, COVER, FITTINGS

Corrosion-Resistant Diecast Aluminum

#### INLET/OUTLET THREADS

1 in. NPT (Female)

#### WARRANTY

5 Year



Easy-To-Read Four-Digit Display

Twist Knob Reset

Durable Aluminum Housing



### QUICK-FIT MODULAR

- Easily attaches to the new modular fuel transfer pumps
- Simple four-bolt connections

### EXTREME ACCURACY!

Within +/- ½% across a flow range from 2 to 40 GPM (8 to 150 L/min).

- Rotatable register for easy reading
- Batch total and cumulative total display
- Optional pulser accessory is compatible with most fuel management systems

	QM40-G8N	QM40-L8N
<b>Unit of Measure</b>	U.S. Gallons	Litre
<b>Flow Range</b>	2 to 40 GPM	8 to 150 L/min
<b>Accuracy: Diesel</b>	± ½% (2 to 40 GPM)	± ½% (8 to 150 L/min)
	± ¼% (15 to 35 GPM)	± ¼% (57 to 132 L/min)
<b>Accuracy: Unleaded</b>	± ½% (2 to 23 GPM w/o kit, 23 to 40 GPM w/kit*)	± ½% (8 to 150 L/min w/o kit, 87 to 151 L/min w/kit*)
	± ¼% (2 to 20 GPM w/o kit, 27 to 40 GPM w/kit*)	± ¼% (8 to 75 L/min w/o kit, 120 to 151 L/min w/kit*)
<b>Maximum Batch Total</b>	999.9	9999
<b>Maximum Cumulative Total</b>	9,999,999.9	99,999,999

### > Ordering Information

Part No.	Model	Units
139000-01	QM40-G8N	Gallons
139000-02	QM40-L8N	Litres

### ACCESSORIES

Part No.	Part No.
*Unleaded Fuel, Gear Kit	139500-15
Pulser Kit, 115V (ac)	126517-05
Fitting, 90° Meter, 1" Male NPT	139130-03
Modular Hardware Kit: Adapter, Outlet 1 in.	162205-01

## Explosion Pump and Oval Gear Meter Combos



泵浦配合齒輪式流量計  
泵浦：PRO20 - 115  
流量計：QM40  
流量範圍：8 LPM—150 LPM  
精度：0.5% TO 0.25%

## Explosion Pump and Disc Meter Combos



泵浦配合蝶盤式流量計  
泵浦：PRO20 - 115  
流量計：M30  
流量範圍：19 LPM—114 LPM  
精度：2%

ROOTS FLOW

# ROOTS · PD METER



MJA(Standard)



MJAR(Restable)



MJA (High Temperature)



MJA (Signal Output)



High Temperature type  
(For JAH Series)

### Ordering Information (Roots)

Model No	Body Material
MJA Standard Type	(A)Cast Iron (B)Carbon Steel (C)SUS 304 (D)SUS 316
MJAR Zero Resettable	Inner Housing/Roots
MJAH High Temperature	(1)Cast Iron (2)Bonze (3)Aluminum (4)SUS 304 (5)SUS 316
Size Connection 25A、40A、50A、80A	Proof Type (IP65)
Flange JIS10K、JIS20K ANSI150# 300#	(1)Weather (2)Explosion
	Signal Output
	(1)100cc/pluse (2)1 liter/pluse (3) 10 liter/pluse (4)Without
MJA 25A (JIS 10K) - A 1 1 1	

FLOW RANGE : 400-45000 L/HR

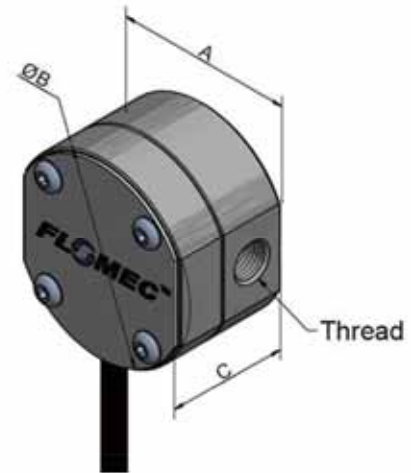
ACCURACY : ±0.5%



## EGM-Series Electronic Flowmeter

### Dimensions

Meter	Dimension	Dimension	Dimension
Model	A	B	C
EGM004	46mm [1.81"]	49.5mm [1.95"]	35mm [1.38"]
EGM006	58mm [2.28"]	64.5mm [2.54"]	39mm [1.54"]
EGM008	58mm [2.28"]	64.5mm [2.54"]	49mm [1.93"]
EGM015	72mm [2.84"]	82mm [3.23"]	66mm [2.60"]
EGM020	72mm [2.84"]	82mm [3.23"]	77mm [3.03"]



### Specifications

Model	EGM004	EGM006	EGM008	EGM015	EGM020
Nominal size	1/8" [4mm]	1/4" [6mm]	3/8" [8mm]	1/2" [15mm]	3/4" [20mm]
Nominal Flow range @ 3cP	1 - 36 L/hr	2 - 100 L/hr	15 - 550 L/hr	1 - 40 L/min	3 - 80 L/min
	[0.26 - 9.5 USG/hr]	[0.5 - 26.4 USG/hr]	[4 - 145 USG/hr]	[0.3 - 10.6 USG/min]	[0.8 - 21.1 USG/min]
Flow range @ 1cP	2 - 24 L/hr	5 - 80 L/hr	18 - 440 L/hr	1.5 - 32 L/min	5 - 64 L/min
Flow range @ 7cP	0.5 - 36 L/hr	1 - 100 L/hr	15 - 550 L/hr	0.5 - 40 L/min	2 - 80 L/min
Flow range @ 200cP	0.4 - 36 L/hr	0.7 - 100 L/hr	6 - 550 L/hr	0.4 - 40 L/min	1.8 - 80 L/min
Flow range @ 500cP	0.25 - 27 L/hr	0.5 - 75 L/hr	2 - 550 L/hr	0.3 - 40 L/min	1.5 - 80 L/min
Flow range @ 1000cP	0.12 - 16 L/hr	0.3 - 45 L/hr	1.5 - 360 L/hr	0.2 - 25 L/min	1 - 50 L/min
Accuracy*	±1% of reading			±0.5% of reading	
Repeatability	Typically ±0.03% of reading				
Ambient Temperature Range	-15°C - +80°C [5°F - +176°F]				
Fluid Temperature Range	-5°C - +80°C [23°F - +176°F]				
Max. Pressure (Al meters)	34 Bar [500 psi]	34 Bar [500 psi]	34 Bar [500 psi]	20 Bar [290 psi]	20 Bar [290 psi]
Max. Pressure (SS meters)	55 Bar [800 psi]	55 Bar [800 psi]	34 Bar [500 psi]	20 Bar [290 psi]	20 Bar [290 psi]
Protection Class	IP65				
Recommended filtration	200 mesh [75 micron]			100 mesh [150 micron]	
Pulse Output Type	NPN Open Collector (Hall Effect Sensor)				
Voltage	5 - 24VDC				
Current Draw	20mA max.				
Switching Current	10mA max.				
Pulse Output Resolution - Standard	2800 [10600]	1060 [4012]	720 [2725]	170 [644]	105 [398]
pulse/L [pulse/USG]					
Pulse Output Resolution - Fuel Cons. Option pulse/L [pulse/USG]	2800 [10600]	1060 [4012]	180[681]	42.5 [161]	26.3 [99.5]
RTD Specification (Integral Option 2)	Platinum Resistance Thermometer 100 Ohms (PT100) Class F0.3				



## AGENCY APPROVALS (continued)

### AGENCY APPROVALS (continued)

#### Q9 Computer Electronics



Factory Mutual Approved  
Intrinsically Safe for Class I, II, III, Division 1, All Groups

Intrinsically Safe approval only applies when  
used with FLOMEC® FM Approved meter

#### Q9 Computer Electronics when installed on a FLOMEC FM Approved meter



IP65



Factory Mutual Approved  
Intrinsically Safe for Class I, II, III, Division 1, All Groups

**ELECTRONIC DIGITAL METER**  
GREAT PLAINS INDUSTRIES, INC.  
5252 E. 36TH ST. NORTH  
WICHITA, KANSAS 67220 U.S.A



FM16CA0148X INTRINSIC SAFETY FOR HAZARDOUS  
LOCATIONS. SECURITE INTRINSEQUE.  
CLASS I, II DIV. 1 GROUPS ABCDEFG,  
T4 at Ta= -40° to +54°C

IP65 Rated UK CA 1725 CE 2809

FM22UKEX0117X FM13ATEX0016X IECEx FMG 13.0005X

SERIAL NUMBER AND DATE CODE ON PRODUCT



II 1 G Ex ia IIC T4 Ga Ta= -40° to +54°C

INTRINSICALLY SAFE FOR  
CLASS I, II, III, DIV. 1,  
GROUPS ABCDEFG,  
T4 Ta= -40° to +54°C  
NONINCENDIVE  
FOR CLASS I, II, III, DIV. 2,  
GROUPS ABCDFG, T4 Ta= -40° to +54°C



**WARNING:**  
See Owner's  
Manual for  
Warnings and  
Cautions Before  
Installation.

GREAT PLAINS INDUSTRIES, INC.,  
5252 E. 36TH ST. NORTH,

WICHITA, KANSAS  
67220 U.S.A



**WARNING: TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERE, BATTERIES MUST ONLY BE CHANGED IN NONHAZARDOUS LOCATION.**  
**AVERTISSEMENT: AFIN DE PRÉVENIR L' INFLAMMATION D' ATMOSPHÈRES DANGEREUSES, NE CHANGER LES BATTERIES QUE DANS DES EMPLACEMENTS DÉSIGNÉS NON DANGEREUX.**

### REMOTE KIT ASSEMBLY (113275-10)

**ELECTRONIC DIGITAL METER**

GREAT PLAINS INDUSTRIES, INC. WICHITA, KANSAS USA

FM13ATEX0016X IECEx FMG 13.0005X FM22UKEX0117X  
ATEX II 1 G Ex ia IIC T4 Ga Ta= -40° to +54°C



FM16CA0148X INTRINSIC SAFETY  
FOR HAZARDOUS LOCATIONS.  
SECURITE INTRINSEQUE.  
CLASS I, II, DIV. 1 GROUPS  
ABCDEFG, T4 AT Ta=54°C.

INTRINSICALLY SAFE FOR CLASS I, II, III, DIV. 1, GROUPS  
ABCDEFG, T4 Ta=54°C NONINCENDIVE FOR  
CLASS I, II, III, DIV. 2, GROUPS ABCDFG, T4 Ta=54°C  
When Installed in Accordance with Manual 920695-2



# 流量計產品系列



S-100  
有機溶劑用



P-100  
強酸鹼用



TM-100  
純水用



T-100  
食品液體用



FHK  
咖啡機用



VSO.1  
液壓油用



WG-50  
高黏樹脂用



MJAR-50  
重油用



MR5-30  
柴油用



101-3T  
微小流量用



AMF 500  
電磁式(夾式)



AMF 900  
電磁式(法蘭)



OM015  
沙拉油用



MC-2536  
蹼輪式



HM-2000H  
超音波手提式



VISION 2000  
飲水機用



N-50A  
面積式(浮球)



HM-2000S  
超音波

我們將推薦給您，精巧，高精度，高黏度，耐高壓，低價位

的流量產品，煩請能將此份資料轉給相關人員。感恩!!

例：工務課、儀錶課、控制課、生產課、環安課、總務課、採購課...等。

公司：仕揚股份有限公司  
地址：台北市中山區松江路 206 號 6 樓之 8  
網址：[WWW.GPIMETER.COM.TW](http://WWW.GPIMETER.COM.TW)

電話：02-2567-2677-8  
傳真：02-2567-2709  
信箱：[mtctech@ms43.hinet.net](mailto:mtctech@ms43.hinet.net)