



FL  ***MEC***®
Flowmeters

GREAT PLAINS INDUSTRIES ®



QSE MAG FLOW METER

**Non-Intrusive (No moving parts)
Electromagnetic Flow Meter**

Turf / Irrigation

- Agriculture Irrigation
- Turf Irrigation Systems
- Micro Irrigation Systems
- HVAC
- EMS (Energy Management Systems)
- BAS (Building Automation Systems)

Institutional

- Chilled water
- Domestic water (hot and cold)
- Micro Irrigation Systems
- Energy sub-metering (BTU hot and cold)
- Process (blow down, make up, boiler feed, etc.)

Accuracy:	+/- 0.5% of reading
Flow Range:	0.15 to 600 GPM (0.56 to 2271 LPM)
Temperature:	32 to 210° F (0° to 99° C)
Pressure:	150 PSI @ 73° F (10 BAR @ 23° F)
Line Sizes:	½", ¾", 1", 1 ½", 2", 3", 4"
Meter Body Materials:	Noryl® housing and flow tube
Fitting Connections:	1/2" to 2" - NPT (Male), BSP (Male) (Rc Thread)
	3" & 4" ANSI Flanged - Polymer or Steel
	3" & 4" DIN Flanged - Steel

Water • Water-Based Liquid Solutions

OM SERIES OVAL GEAR METER

Medium to Heavy Viscosity Fluids

- Oils
- Fuel
- Diesel
- Batching
- Molasses
- Chemical Additive Injection
- Bunker C Fuel Oil
- Clean Fluids
- Oil-Based Paints
- Industrial Fluids
- Truck Metering
- Chemical Feed Lines

Accuracy:	+/- 1% of reading (1/8" to 3/8") +/- 0.5% of reading (½" to 4")
Flow Range:	0.002 to 660 GPM (0.008 to 2,500 L/min)
Temperature:	- 4° to 300° F (-20° to 150° C)
Pressure:	170 to 5,800 PSI (5 to 400 Bar)
Meter Sizes:	1/8" to 4" (4 to 100 mm)
Meter Body Materials:	Aluminum, Stainless Steel and PPS
Fitting Connections:	NPT, BSP, Sanitary and Flange
Output Options:	Pulse and 4-20mA



Oils • Molasses



G SERIES TURBINE METER

Thin Viscosity Fluids Under 100 Centipoise

- Food & Beverage
- Petro Chemicals
- Fuel
- Pharmaceuticals
- Batching
- Process Control
- Chemical Feed Lines
- Irrigation
- High Water Volume Mixing

Accuracy:	+/- 0.5% of reading
Flow Range:	0.6 to 600 GPM (3.0 to 2,271 LPM)
Temperature:	-450° to 300° F (-268° to 426° C)
Pressure:	2,500 to 5,000 PSI (170 to 340 Bar)
Meter Sizes:	1/2" to 3" (15 to 80 mm)
Meter Body Materials:	Stainless Steel
Fitting Connections:	NPT, BSP, Sanitary and ANSI Flange
Output Options:	Pulse and 4-20mA

**Food & Beverage
Pharmaceuticals**

High Precision • High Pressure



"Look for the blue label."

G2 SERIES TURBINE METER

General Purpose Meter

- Batching
- Blending
- Water
- Food & Beverage Processing
- Harsh Chemicals (Sulfuric Acid & Bleach)
- Monitoring Clean Fluids
- Chemical Feed Lines
- Industrial Fluids
- Plant Process Water

Accuracy:	+/- 1.5% to 0.75% of reading (Depending on Pipe Size)
Flow Range:	1.0 to 200 GPM (3.8 to 760 LPM)
Temperature:	-40° to 250° F, 140° F w/ display (-40° to 121° C, 60° C w/ display)
Pressure:	100 to 3,000 PSI (6.9 to 207 Bar)
Meter Sizes:	1/2" to 2" (15 to 50 mm)
Meter Body Materials:	Aluminum, Stainless Steel and PVDF
Fitting Connections:	NPT, BSP Thread, Sanitary Flange and True Union
Output Options:	Pulse and 4-20mA

**Harsh Chemicals • Integrated Display
Output Options**



TM SERIES TURBINE METER

Light-Weight, In-Line Water Meter

- Batching
- Irrigation
- Blending
- Water Treatment Processing
- Water Based Cooling Systems
- Sub-Metering of Facility Water Usage
- Plant Process Water
- Monitoring Clean Fluids

Accuracy:	+/- 3% of reading
Flow Range:	10 to 600 GPM (3.8 to 2271 LPM)
Temperature:	32° to 140° F, (0° to 60° C)
Pressure:	225 PSI at 73° F, (15.3 Bar at 23° C)
Meter Sizes:	1/2" to 4" (15 to 100 mm)
Meter Body Materials:	PVC Plastic
Fitting Connections:	NPT, BSP, #150 ANSI or DIN Flange and Spigot
Output Options:	Blind Pulse and Display with Pulse

Water • Schedule 80 PVC



"Look for the silver label."

A1 SERIES RATE & TOTAL METER

Self-Contained Application Specific Meters

- Fuel Transfer
- Plant Process Water
- Batching / Blending
- Chemical Feed Lines
- **Aluminum** - Fuel Products
- **Nylon** - Water / Non-Aggressive Chemicals
- Ag Chemicals
- Solvents / Glycol

MODEL:	A025, A100 (1") & A200 (2")	N025 & N100 (1")
Accuracy:	+/- 1.5% of reading	
Flow Range:	0.3 - 300 GPM (1 - 190 LPM)	0.3 - 50 GPM (1 - 190 LPM)
Temperature:	-40° to 250° F, (-40° to 121° C)	
Temp. w/Display:	0° to 140° F, (-18° to 60° C)	
Pressure:	300 PSI (21 Bar)	150 PSI (10.2 Bar)
Meter Sizes:	1" to 2" (25 to 50 mm)	
Meter Body Materials:	Aluminum and Nylon	
Fitting Connections:	NPT and BSP	

**Water • Fuel
Chemicals • Field Calibration
Higher Accuracy**

ECONOMY METERS - 01N, 01A & FM-300

Thin Viscosity Fluids Under 100 Centipoise

- Water
- Fuel
- Chemicals



"Look for the red label."

MODEL:	01N Turbine	01A Turbine	FM-300 H/R
Accuracy:	+/- 5.0% of reading	+/- 5.0% of reading	+/- 2.0% of reading
Flow Range:	3-30 GPM (11-113 LPM)	3-30 GPM (11-113 LPM)	2-20 GPM (7-75 LPM)
Temperature:	14° to 130° F (-10° to 54° C)	14° to 130° F (-10° to 54° C)	15° to 130° F (-9° to 54° C)
Pressure:	150 PSIG (10.3 Bar)	300 PSIG (21 Bar)	50 PSIG (3.4 Bar)
Meter Sizes:	1" (25mm)		
Meter Body Materials:	Aluminum, Nylon and PBT Polyester		
Fitting Connections:	NPT and BSP		

Water • Fuel • Chemicals



DP SERIES INSERTION IMPELLER METER

Simple Flow Measurement for Clear Fluid Applications

- Batching / Blending
- Irrigation
- Industrial Chemicals
- Water/Waste Water Treatment Processing
- HVAC (Hot & Chilled Water)
- Municipal & Industrial Water

Accuracy:	+/- 1.5% of reading
Flow Range:	4.0 to 780,000 GPM (0.015 to 2940 LPM) Depending on pipe size
Flow Velocity Range:	1 to 33 ft/s (0.3 to 10 m/s)
Temperature:	-40° to 300° F, (-40° to 150° C)
Pressure:	1,200 PSI (80 Bar)
Pipe Sizes:	1-1/2" to 100" (40 to 2500 mm)
Meter Body Materials:	Stainless Steel

Water • Large Pipes • Industrial Chemicals

ECONOMY METERS - 02N & 02A SCALED PULSE

Works with an Endless Variety of Applications

- Irrigation
- Data Logger
- Wireless Communications
- Programmable Logic Controller (Batch Control)
- OEM (Connect to Flow Switch - Low Cost Meter)
- Building Automation (Chillers)



MODEL:	02N Turbine	02A Turbine
Accuracy:	+/- 5.0% of reading	
Flow Range:	3 - 30 GPM (11 - 113 LPM)	
Temperature:	14° to 130° F, (-10° to 55° C)	
Pressure:	150 PSI (10.3 Bar)	300 PSI (21 Bar)
Meter Sizes:	1" (25 mm)	
Meter Body Materials:	Aluminum or Nylon	
Fitting Connections:	NPT, BSPP and BSPT	

Water • Fuel • Chemicals

QSTAR ULTRASONIC METER Non-Intrusive Flow Measurement



- Power Stations
- Food & Beverage
- Building Services Engineering
- Water
- Waste Water
- Chemicals & Petrochemicals

Accuracy:	Up to +/- 1% of reading
Flow Velocity Range:	+/- 98.42 t/sec (30 m/s)
Operating Temperature:	-4° to 140° F (-20° to 60° C)
Transducer Temperature:	-40° to 300° F (-40° to 150° C)
Pipe Sizes:	½" to 240" (10 to 600 mm)

Water • Large Pipes • Industrial Chemicals

LM51DN LUBE METER Economy Positive Displacement Meter

- Engine Oils
- Hydrocarbons
- Transmission Fluid
- Paints
- Lubricants
- Liquid Soaps

Accuracy:	+/- 0.5% of reading
Flow Range:	0.26 - 7.8 GPM (1 - 30 LPM) @ 5 - 1,000 cp
Temperature:	-4° to 140° F (-20° to 60° C)
Pressure:	1,500 PSI (103 Bar)
Meter Body Materials:	Aluminum
Fitting Connections:	1/2" NPT



Engine Oils • Transmission Fluid • Maximum 1,000 Centipoise

ELECTRONIC CHOICES

RT40

- Total & Rate Display

RT14

- Total & Rate
- Signal Outputs
- High & Low Alarm Outputs
- 4-20 mA Output
- Intrinsically Safe (Optional)

EB10

- Batch Controller
- Total & Rate
- Signal Outputs

E Series (E112)

- Total & Rate
- Signal Outputs
- Explosion Proof Display
- 4-20 mA (Isolated)

F Series (F018 / F116 / F118 / F126 / F130)

- Total & Rate
- Pulse Outputs
- High / Low Alarm Outputs (F018 & F118)
- 4-20 mA Output
- Batching (F130)
- Net Use (F116)
- HART Protocol (F018)
- Temperature Compensation (F126)

N Series (N410)

- Batch Controller
- Numerical Keypad
- DIN Panel Mount
- 2-Stage Valve Control



DISPLAYS AND TRANSMITTERS

GG Series

- Display with Pulse Output

GX Series

- Display with 4-20 mA Output

GA Series

- 4-20 mA Output

SC Series

- Scaled Pulse Output



BETTER
performance

HIGHER
quality

LOWER
cost

GREAT PLAINS INDUSTRIES



Wichita · Sydney · Mexico City

Great Plains Industries, Inc. / 888-996-3837 / GPI.net

Great Plains Industries, Inc. -Australia / +61 2 9540 4433 / flomec.com.au