





PRODUCT OVERVIEW 2018



QSE MAG METERNon-Intrusive (No moving parts) **Electromagnetic Flow Meter**

- HVAC • EMS (Energy Management Systems)
- BAS (Building Automation Systems

Institutional

· Chilled water

Turf / Irrigation Agriculture Irrigation

· Domestic water (hot and cold)

Turf Irrigation Systems

Micro Irrigation Systems

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



Accuracy:	+/- 0.5% of reading (from 0.25 to 15 fps [0.08 to 4.57 m/s])
Flow Range:	0.16 to 600 GPM (0.63 to 2270 L/min)
Operating Temperature:	½" to 2": 32° to 210° F (0° to 99° C) 3" - 4": 32° to 180° F (0° to 82° C)
Ambient Temperature:	0° to 140° F (-18° to 60° C)
Pressure:	150 psi @ 73° F (10 bar @ 23° C)
Line Sizes:	1/2", 3/4", 1", 1 1/2", 2", 3", 4"
Meter Body Materials:	NoryI [™] housing and flow tube
Fitting Connections:	1/2" to 2" - NPT (Male), BSPP (Male) (ISO 228) 3" & 4" ANSI Flanged - Polymer or Steel 3" & 4" DIN Flanged - Steel

ELECTROMAGNETIC

QSTAR ULTRASONIC METER

Non-Instrusive Flow Measurement

- **Power Stations**
- · Water / Waste Water
- · Food & Beverage
- · Large Pipe Applications
- Building Services Engineering
 Chemicals & Petrochemicals

Accuracy:	Up to +/- 1% of reading
Flow Velocity Range:	+/- 98.42 ft/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 mm to 6 m)



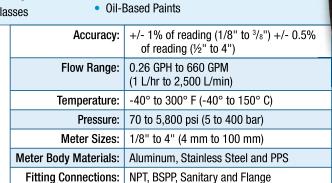
OM SERIES

Medium to Heavy Viscosity Fluids

- 0ils
- Fuel
- Diesel
- Batching
- Molasses
- Chemical Additive Injection

Output Options:

- Bunker C Fuel Oil
- Clean Fluids
- Industrial Fluids
- Truck Metering
- Chemical Feed Lines



Pulse and 4-20mA



EGM SERIES

High to Low Viscosity Fluids

- Chemical Additive Injection
- Bunker C Fuel Oil
- Clean Fluide
- Industrial Fluids
- Truck Metering
- Fuel
- Chemical Feed Lines
 Diesel

0ils

	Oil-Based Paints	Molasses
Accuracy:		+/- 1% of reading (1/8" to 3/8") +/- 0.5% of reading (1/2" to 3/4")
Flow Range: 0.26 GPH to 21.1 GPM (1 L/hr to 80 L/min)		0.26 GPH to 21.1 GPM (1 L/hr to 80 L/min)
Temperature:		5° to 176° F (-15° to 80° C)
Max. Pressure (AL):		1/8" to 3/8": 500 psi (34 bar), 1/2" to 3/4": 290 psi (20 bar)
Max. Pressure (SS):		½" to ¼": 800 psi (55 bar), ¾": 500 psi (34 bar), ½" to ¾": 290 psi (20 bar)
	Meter Sizes:	1/8" to 3/4" (4 to 20 mm)
	Meter Body Materials:	Aluminum and Stainless Steel
	Fitting Connections:	NPT and BSPP

POSITIVE DISPLACEMENT (Oval Gear)



Marine (SS) or Land and Gen-Sets (AL)

A complete fuel monitoring system that includes 2 EGM meters (SS or AL depending on kit) and a net use display for accurate measurement of fuel consumption rates and total fuel consumption.



Not Available in the U.S.A.



The Fuel Consumption System is designed for Diesel Fuel. Diesel fuel is not considered a flammable fluid in most of the world, but it is in the USA. The Fuel **Consumption System does not have FM Approval** and should not be sold for use in the USA.

FLOMEC®



 Lubricants Dyes & Coloring Denaturants Detergents	 Odorizing Anti-detonating Anti-freeze Anti-corrosion Anti-foaming Emulsifiers 	
Accuracy:	± 1% @3cP	
Repeatability:	0.25% reading	
Flow Range:	0.26 - 145 GPM (1 - 550 L/min)	
Temperature:	5° to 149° F (-15° to 65° C)	
Meter Sizes:	½" - ¾" (4 mm - 8 mm)	
Meter Body Materials*: Stainless Steel		
Max. Pressure (Static):	440 ngi (30 har)	
Max. Pressure (Operating):	DC Solenoid Coils; 100 psi (7 bar) AC Solenoid Coils; 295 psi (20 bar)	

D SERIES DIESEL METER

High accuracy oval gear technology with low pressure drop

- Fleet Depots
- Farms
- Mine Sites
- Marine Facilities
- Construction Sites
- Portable Fueling Applications

	1000000
Accuracy:	± 1% of reading
Flow Range:	0.26 - 660 GPM (1 - 2500 L/min)
Temperature:	5° to +176° F (-15° to +80° C)
Meter Sizes:	½" - 4" (15 mm - 100 mm)
Wetted Materials*:	Aluminium, stainless steel, hardened steel, PPS, Viton, Nitrile
Compatible Fluids:	Diesel, Gasoline (Intrinsically Safe electronic display only), Kerosene, Light Oils

*Typical wetted materials subject to change and may vary between models

POSITIVE DISPLACEMENT (Oval Gear)



Not Available in the U.S.A.



The D-Series is designed for Diesel Fuel. Diesel fuel is not considered a flammable fluid in most of the world, but it is in the USA. The D-Series meter does not have FM Approval and should not be sold for use in the USA.

G SERIES TURBINE Flowmeters

Thin Viscosity Fluids Under 100 Centipoise

- Food & Beverage
- Chemical Feed Lines

- Petro Chemicals
- Batching
- Irrigation

- Fuel
- Process Control

Pharmaceuticals

High Water Volume Mixing

Accuracy:		+/- 0.5% of reading	
	Flow Range:	0.6 to 600 GPM (2.2 to 2,271 L/min)	
	Temperature:	-450° to 800° 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, BSPT, BSPP, Sanitary & ANSI Flange	
	Output Options:	Pulse and 4-20mA	

High Precision **✓** High Pressure

TP SERIES Low Viscosity Fluids

TURBINE Flowmeters



- Insecticides
- Water
- Light Hydraulic Oils
- Temperature: Max. Pressure: **Suits Pipe Sizes: Pipe Connections:** Wetted Materials:
- Accuracy: +/- 0.5% of reading Flow Range: 0.5 to 1200 GPM (1.8 to 4500 L/min) -40° to $+450^{\circ}$ F (-40° to $+232^{\circ}$ C) 3625 psi (250 bar) 1/2" to 4" (15 mm - 100 mm) NPT, BSP, ANSI #150, ANSI #300, PN16 DIN 316 SS bearing support and body, 431 SS rotor, tungsten carbide bearing

Not Available in the U.S.A.





Integrated Display • Output Options

"Look for the blue label."

G2 SERIES

General Purpose Meter

- Blending
- Food & Beverage Processing
- · Chemical Feed Lines

Plant Process Water

- Harsh Chemicals (Sulfuric Acid & Bleach)
- Industrial Fluids

- · Monitoring Clean Fluids

Accuracy:	+/- 1.5% to 0.75% of reading (Depending on Pipe Size)
Flow Range:	1.0 to 200 GPM (3.8 to 760 L/min)

riow Range:	1.0 to 200 GPW (3.8 to 760 L/IIIIII)	
Temperature:	-40° to 250° F (max 140° F with display) (-40° to 121° C [max 60° C with display])	
Drogourou	100 to 2 000 poi (6 0 to 207 bor)	

Pressure:	100 to 3,000 psi (6.9 to 207 bar
Meter Sizes:	1/2" to 2" (15 mm to 50 mm)

Meter Body Materials:	Aluminum, Stainless Steel, Brass and PVDF	
Fitting Connections:	NPT, ISO, Sanitary, 150# ANSI and True Union	

Output Options: Pulse and 4-20mA

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



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Higher Accuracy

TURBINE Flowmeters

A025, A100 (1") & A200 (2")	N025 & N100 (1")
+/- 1.5% of reading	
0.3-300 GPM (1-1135 L/min)	0.3 - 50 GPM (1 - 190 L/min)
re: -40° to 250° F (-40° to 121° C)	
: 14° to 140° F (-10° to 60° C)	
300 psi (21 bar)	150 psi (10.3 bar)
1" to 2" (25 mm to 50 mm)	1" (25 mm)
Aluminum	Nylon
: NPT and ISO	
	+/- 1.5% 0.3-300 GPM (1-1135 L/min) -40° to 250° F (14° to 140° F (300 psi (21 bar) 1" to 2" (25 mm to 50 mm) Aluminum

TURBINE Flowmeters



TM SERIES

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

Oyon	• Monitoring Clean Fluids
Accuracy:	+/- 3% of reading
Flow Range:	1 to 600 GPM (3.8 to 2271 L/min)
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 (Schedule 80)
Fitting Connections:	NPT, BSP, #150 ANSI or DIN Flange and Spigot
Display/Output Options:	Blind Pulse, Display with Pulse, and Display only

01N, 01A & FM-300

Thin Viscosity Fluids Under 100 Centipoise

• Water • Fuel • Chemicals

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 L/min)	3-30 GPM (11-113 L/min)	2-20 GPM (7-75 L/min)
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 psi (10.3 bar)	300 psi (21 bar)	50 psi (3.4 bar)
Meter Sizes:	1" (25 mm)		
Meter Body Materials:	Nylon	Aluminum	PBT Polyester
Fitting Connections:	NPT and BSP		





"Look for the red label."



02N & 02A SCALED PULSE

Works with an Endless Variety of Applications

ECONOMY
Electric Digital
Meters

- 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 L/min)	
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:	Nylon	Aluminum
Fitting Connections:	NPT, BSPP and BSPT	

Water • Fuel • Chemicals

LM51DN LUBE METER

Maximum 1,000 Centipoise

- Engine Oils
- Transmission Fluid
- Lubricants

- Hydrocarbons
- Paints
- Liquid Soaps

Accuracy:	+/- 0.5% of reading
Flow Range:	0.25 - 8 GPM (1 - 30 L/min)
Temperature:	-4° to 140° F (-20° to 60° C)
Pressure:	1,500 psi (103 bar)
Meter Body Materials:	Aluminum
Fitting Connections:	1/2" NPT
Pressure: Meter Body Materials:	1,500 psi (103 bar) Aluminum





INSERTION IMPELLER Meter

DP SERIES

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 Velocity Range:	3 to 33 ft/s (1 to 10 m/s)	
Temperature:	-40° to 300° F (-40° to 150° C)	
Pressure:	1,160 psi (80 bar)	
Pipe Sizes:	Pipe Sizes: 1-1/2" to 100" (40 mm to 2500 mm)	
Meter Body Materials:	Stainless Steel	

Water • Large Pipes • Industrial Chemicals

FLOMEC®

09 Display

- Total & Rate
- Gallons & Litres Calibration
- Field Calibration Capability

QSI Interface Board

- Communication options available: Modbus® RTU and BACnet® MS/TP (pending)
- Built-in Bluetooth® Wireless Technology
- External Programming FLOMEC® App available for Mobile Devices
- Receive in-field firmware updates
- Standard process outputs: Pulse out and 4-20mA

RT40

Total & Rate

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 (E018)

- Total & Rate
- Signal Outputs
- Explosion Proof Display
- 4-20 mA (Isolated)
- HART Protocol (E018)

F Series (F018 / F115 / F127 / F130)

- Total & Rate
- Pulse Outputs
- High / Low Alarm Outputs (F018)
- 4-20 mA Output (F018)
- Batching (F130)
- HART Protocol (F018)
- Temperature Compensation (F127)







FLOMEC® has partnered with Obvius, a leading energy solutions provider, to offer the optimum solutions for data collection and connectivity.

Qbvius manufactures data acquisition and wireless connectivity products specifically for energy management.

Solutions offered include:

- Data Acquisition
- Wireless Communication
- Meters & Sensors
- Custom Packaged Solutions
- Integration & Software Partners

Data Acquisition Servers

AcquiSuite EMB A8810

- Collect energy data from meters and environmental sensors
- Designed to connect to IP-based applications

AcquiLite EMB A7810

- Collect energy data from pulse output meters
- Designed to connect to IP-based applications

Data Acquisition Modules

Flex I/O Module A8332-8F2D

- Cost-effective way to collect data from meters or sensors
- Can be incorporated with data acquisition and wireless metering devices

HD Pulse Module A8911-23

- Cost-effective, simple way to collect data from multiple pulse meters
- Can be incorporated with meter enclosures, data acquisition and wireless metering

Wireless Metering

ModHopper R9120-5

- Breakthrough mesh technology design that makes connecting Modbus and pulse devices simple and cost effective
- Eliminate the need for costly wiring runs
- Collect meter points in existing buildings with minimum down-time or disruption of day-to-day operations

performance

HIGHER QUAlity

LOWER

