FL⬭MEC®

FLOWMETERS

PRODUCT OVERVIEW / 2018

BIBUS

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FLOMEC ®

QSE MAG 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-merging (BTU hot and cold)
- Process (blow down, make up, boiler feed, etc.)

NSF
Certified to
NSF/ANSI 61-G & 372

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:	½", ¾", 1", 1 ½", 2", 3", 4"
Meter Body Materials:	Noryl™ housing and flow tube
Fitting Connections:	½" to 2" - NPT (Male), BSPP (Male) (ISO 228) 3" & 4" ANSI Flanged - Polymer or Steel 3" & 4" DIN Flanged - Steel

QSTAR ULTRASONIC METER
Non-Instrusive Flow Measurement

- Power Stations
- Food & Beverage
- Building Services Engineering
- Water / Waste Water
- Large Pipe Applications
- 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

- Oils
- Fuel
- Diesel
- Batching
- Molasses

- Chemical Additive Injection
- Bunker C Fuel Oil
- Clean Fluids
- Oil-Based Paints

- Industrial Fluids
- Truck Metering
- Chemical Feed Lines

POSITIVE DISPLACEMENT
(Oval Gear)

Accuracy:	+/- 1% of reading (1/8" to $^3/_8$") +/- 0.5% of reading (½" to 4")
Flow Range:	0.26 GPH to 660 GPM (1 L/hr to 2,500 L/min)
Temperature:	-40° to 300° F (-40° to 150° C)
Pressure:	70 to 5,800 psi (5 to 400 bar)
Meter Sizes:	1/8" to 4" (4 mm to 100 mm)
Meter Body Materials:	Aluminum, Stainless Steel and PPS
Fitting Connections:	NPT, BSPP, Sanitary and Flange
Output Options:	Pulse and 4-20mA

EGM SERIES
High to Low Viscosity Fluids

POSITIVE DISPLACEMENT
(Oval Gear)

- Chemical Additive Injection
- Bunker C Fuel Oil
- Clean Fluids
- Oil-Based Paints

- Industrial Fluids
- Truck Metering
- Chemical Feed Lines
- Batching
- Molasses

- Oils
- Fuel
- Diesel

Accuracy:	+/- 1% of reading (⅛" to ⅜") +/- 0.5% of reading (½" to ¾")
Flow Range:	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):	⅛" to ⅜": 500 psi (34 bar), ½" to ¾": 290 psi (20 bar)
Max. Pressure (SS):	⅛" to ¼": 800 psi (55 bar), ⅜": 500 psi (34 bar), ½" to ¾": 290 psi (20 bar)
Meter Sizes:	⅛" to ¾" (4 to 20 mm)
Meter Body Materials:	Aluminum and Stainless Steel
Fitting Connections:	NPT and BSPP

FUEL CONSUMPTION SYSTEM OPTIONS
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.

Ø **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 ®

AIM BLOCK
(Additive Injection Manifold)

- Lubricants
- Dyes & Colorings
- Denaturants
- Detergents
- Odorizing
- Anti-freeze
- Anti-corrosion
- Anti-static
- Anti-detonating
- Anti-icing
- 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:	⅛" - ⅜" (4 mm - 8 mm)
Meter Body Materials*:	Stainless Steel
Max. Pressure (Static):	440 psi (30 bar)
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
- Mine Sites
- Construction Sites
- Farms
- Marine Facilities
- Portable Fueling Applications

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

Ø **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
Thin Viscosity Fluids Under 100 Centipoise

TURBINE Flowmeters

- 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 (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

- Fuel
- Alcohols
- Solvents
- Insecticides
- Water
- Light Hydraulic Oils

Ø **Not Available in the U.S.A.**

Accuracy:	+/- 0.5% of reading
Flow Range:	0.5 to 1200 GPM (1.8 to 4500 L/min)
Temperature:	-40° to +450° F (-40° to +232° C)
Max. Pressure:	3625 psi (250 bar)
Suits Pipe Sizes:	½" to 4" (15 mm - 100 mm)
Pipe Connections:	NPT, BSP, ANSI #150, ANSI #300, PN16 DIN
Wetted Materials:	316 SS bearing support and body, 431 SS rotor, tungsten carbide bearing

FLOMEC®

G2 SERIES
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 L/min)
Temperature:	-40° to 250° F (max 140° F with display) (-40° to 121° C [max 60° C with display])
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

"Look for the blue label."

Integrated Display • Output Options

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

"Look for the silver label."

✔ **Field Calibration**

✔ **Higher Accuracy**

MODEL:	A025, A100 (1") & A200 (2")	N025 & N100 (1")
Accuracy:	+/- 1.5% of reading	
Flow Range:	0.3 - 300 GPM (1-1135 L/min)	0.3 - 50 GPM (1 - 190 L/min)
Temperature:	-40° to 250° F (-40° to 121° C)	
Temp. w/Display:	14° to 140° F (-10° to 60° C)	
Pressure:	300 psi (21 bar)	150 psi (10.3 bar)
Meter Sizes:	1" to 2" (25 mm to 50 mm)	1" (25 mm)
Meter Body Materials:	Aluminum	Nylon
Fitting Connections:	NPT and ISO	

BIBUS

TURBINE Flowmeters

TM SERIES®
water meters

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

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

ECONOMY Electric Digital Meters

- 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
- Hydrocarbons
- Transmission Fluid
- Paints
- Lubricants
- 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

ECONOMY Positive
Displacement 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:	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)
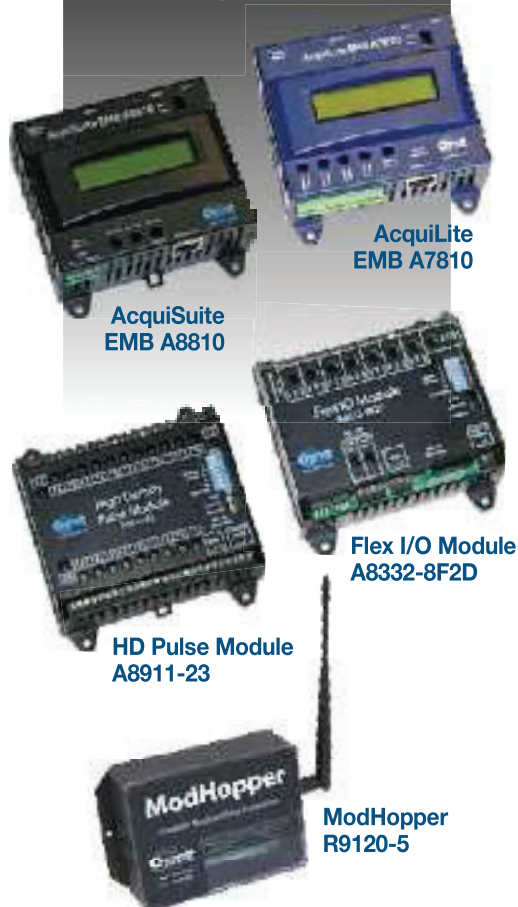
09 Display

QSI Interface Board

RT40

RT14

EB10

E018

F018 / F115 / F127 / F130

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BIBUS

FLOMEC®

partnering with **obvius**

WIRELESS
Metering & Data Acquisition

AcquiLite EMB A7810

AcquiSuite EMB A8810

Flex I/O Module A8332-8F2D

HD Pulse Module A8911-23

ModHopper R9120-5

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

BIBUS

BETTER
performance

HIGHER
quality

LOWER
cost