



## WORLD CLASS FLOW SOLUTIONS

### PRODUCT SUMMARY

#### TURBINE FLOW METERS *High accuracy, fast speed-of-response*



Flow Technology turbine flow meters are commonly used in mission critical applications demanding superior accuracy, quality and reliability.

Ideal for clean liquids and gases, such as fuels, hydraulic fluid, lubricating oils, DI water, industrial gases, process chemicals, etc.

Features:

- High accuracy over a wide turndown
- 4-5mS response time
- Compact size
- High pressure
- Custom meters available on request
- High shock designs for water hammer effect
- Linearization & temperature compensation

#### ELECTROMAGNETIC FLOW METERS *Extended turndown, low cost-of-ownership*



FTI mag meters have an innovative magnetic flux path profile that ensures accuracy over a 1000:1 turndown. The EL Series meters are ideally suited for accurately measuring the flow rate of conductive liquids and slurries.

Magnetic flow meters are used in virtually every processing industry and represent a very cost effective solution: Food and Beverage, Chemical, Water & Waste, Mining, etc.

Features:

- Enhanced linearity (1000:1 turndown)
- Potted & sealed electrode housing (IP68)
- No moving parts
- Sanitary units
- Grounding rings not required
- Hastelloy C22 Electrodes std.
- No pressure drop

#### POSITIVE DISPLACEMENT FLOW METERS *Easy maintenance, rugged performance*



Positive displacement (PD) flow meters are the meter of choice for high viscosity or high pressure applications, and for environments ranging from adhesive dispensing to methanol injection. Only two moving parts ensures reliability for critical applications.

Suited for high viscosity applications such as resins, polyurethanes, adhesives, paints, liquid sugars, syrups, etc.

Features:

- High viscosity >1,000,000cP
- Low installation costs - no upstream or downstream piping requirements
- Wide turndown: 1000:1 at high viscosity
- Easy maintenance, only two moving parts
- Simple & rugged design
- High resolution

#### ULTRASONIC FLOW METERS *Clamp-on design, no moving parts*



Clamp on ultrasonic meters are ideal for applications where the process line is difficult, undesirable, or impossible to cut in order to install a traditional flow meter.

Utilizing digital signal processing (DSP) techniques, these meters deliver outstanding accuracy and repeatability and can be used on 1/16 inch to 12 inch line sizes.

Features:

- Easy installation
- Simple setup and programming
- Interchangeable line sizes
- No moving parts
- No pressure drop
- Wide rangeability
- Fast speed of response

# SPECIFICATIONS

## TURBINE FLOW METERS

<b>Accuracy:</b>	+/-0.25% of reading
<b>Repeatability:</b>	+/-0.05% of reading (liquid) ± 0.1% of reading (gas)
<b>Linearity:</b>	Up to +/-0.1% of reading
<b>Turndown:</b>	Up to 100:1
<b>Flow Range:</b>	0.001 to 1500 GPM
<b>Line Sizes:</b>	3/8" to 4"
<b>Temperature Rating:</b>	Up to 750° F
<b>Pressure Rating:</b>	250 to 5,800 PSI (up to 30,000 PSI available)
<b>End Connection:</b>	NPT, AN, RF Flange, SAE Code 62, Tri-Clamp
<b>Outputs:</b>	Various electronic options are available that provide frequency, scaled frequency, temperature compensation, 4-20mA, 0-5 VDC, 0-10 VDC, RS232

## POSITIVE DISPLACEMENT FLOW METERS

<b>Accuracy:</b>	+/-0.25% of reading
<b>Repeatability:</b>	+/-0.05% of reading
<b>Linearity:</b>	Up to +/-0.1% of reading
<b>Turndown:</b>	Up to 1000:1
<b>Flow Range:</b>	0.001 to 100 GPM
<b>Line Sizes:</b>	1/8" to 2"
<b>Temperature Rating:</b>	250° F to 450° F
<b>Pressure Rating:</b>	250 to 10,000 PSI
<b>End Connection:</b>	FNPT, RF Flange, Tri-Clamp Autoclave
<b>Outputs:</b>	Various electronics options available that provide square wave pulse, 4-20mA

## ELECTROMAGNETIC FLOW METERS

<b>Accuracy:</b>	+/-0.20% of reading with velocity greater than 0.66 ft./sec.
<b>Repeatability:</b>	+/-0.10%
<b>Turndown:</b>	Up to 1000:1
<b>Flow Range:</b>	33 ft./sec. max. (.022 to 18779 GPM)
<b>Line Sizes:</b>	1/8" to 16" (larger sizes available)
<b>Temperature Rating:</b>	Dependent on liner material Ebonite -40° F (-40° C) to 176° F (80° C) Teflon -40° F (-40° C) to 320° F (180° C)
<b>Electrodes:</b>	Hastelloy C22, 316L, Titanium, Tantalum, Platinum
<b>Maximum Pressure:</b>	Dependent on fitting
<b>End connection:</b>	RF Flange, DIN Flange, Tri-clamp, DIN 11851
<b>Environmental:</b>	IP68 continuous immersion to 1.5 meters
<b>Transmitters Power Supply:</b>	90 to 264 VAC or 12 to 24 VAC/DC
<b>Outputs:</b>	Analog 4(0) to 20 mA Digital 24 VDC scaled pulse, 24 VDC alarm Serial RS 485
<b>Protection:</b>	IP67 / IP65 / IP44

## ULTRASONIC FLOW METERS

<b>Accuracy:</b>	+/-2% rate; +/-0.066 ft. per sec.
<b>Repeatability:</b>	+/-0.2%
<b>Turndown:</b>	10:1
<b>Flow Range:</b>	3.3 to 33 ft./sec.
<b>Line Sizes:</b>	Applicable pipes, 1" to 12" PFA tube: 6x4mm, 3x2mm, 3/8" to 3/4"
<b>Temperature Range:</b>	32° F (0° C) to 122° F (50° C) sensor -4° F (-20° C) to 158° F (70° C) electronics
<b>Power Supply:</b>	12-30 VDC, 85 to 264 VAC, 50/60 Hz
<b>Outputs:</b>	Analog DC 4-20mA Pulse Open collector (up to 3) Serial RS 232 (SLF-500 only)



8930 S. Beck Ave., Suite 107 • Tempe, AZ, 85284 USA  
Tel: 480.240.3400 • Fax: 480.240.3401 • Toll-free: 800.528.4225  
E-mail: ftimarket@ftimeters.com • Web: www.ftimeters.com