LIQUID FLOWMETERS

Company	Types of Liquid Inferential Flowmeters Offered: Orifice Plate	Wedge	Nozzle	Elbow Taps	Venturi	Pitot, Flow Tube	Other	Range of Liquid Flow Rates for Direct Reading, Variable Area or Float Type Liquid Meters	Corrosive Liquids Handled: Low pH or Acidic Liquids	High pH or Alkalis Liquids	Typical Installed Full Pipe Volumetric Flowmeter Accuracy: Magnetic	Vortex Shedding	Ultrasonic	Positive Displacement	Turbine or Impeller	Typical Installed Mass Flowmeter Accuracy: Coriolis	Thermal	Other	Open Channel Flow Measurement Equipment and Meters	4-20 mA output signal	Digital Output	Plug & Play Remote Reading Capabilities: Telephone Line Telemetry	Wireless Telemetry	Power Line Telemetry	Fiber Optic Telemetry	"Smart Sensor" 2-way Communication	Networking Capability	Water Service Meters Offered: Residential Meters	Commercial/Industrial Meters	Water Meter Operating Principle: Turbine	Disk	Oscillating Piston	Orifice Plate	Multijet	Compound Meters	Propeller	Other
Aalborg Instruments & Controls 845/770-3000, 800/866-3837							VA	0-0.07 ml/min	●	●		±0.5%																										
Badger Meter 414/355-0400											0.25%			1.0%	1.5%					●	●	●	●	●		●	H,L	●	●	●	●	●			●			
Barnant Co. 847/381-7050							VA	0-20 gpm	●	●																												
Blue-White Industries 714/893-8529							VA FS	0.025 - 4000 gph												●	●					●	DG										
Brooks Instruments 215/362-3500							VA	0.026-100,000l/h	●	●				±1%		±0.2%-1.0%	±0.2%-1.0%			●	●					●	M,H P R4		●								●
Burkert 949/223-3100							PD MG	1/2-20000 gpm	●		±0.5% FS			±0.5% FS	±0.5% FS		±0.5% FS			●	●					●	P		●								
Carlon Meter Co. Inc. 616/842-0420														1%	1%					●		●						●	●	●		●		●			
Cole-Parmer Instrument Co. 847/549-7600, 800/323-4340	●				●	●	VA	.025-1100 gpm			.1%	.75%	±2%	0.5%	1%	0.1% liquid	±2%		PW	●	●		●	●		●			●	●			●			●		R4 H
Control Electronics Inc. 610/942-3190							DO OP	no limit	●	●			±1%						VN,PF,MF RW,PB,HF TF,US	●	●	●															
Controlotron 631/231-3600													±0.25-1% TT					TT-± 0.25-1.0		●	●					●	M E									
Dynasonics 262/639-6770								0-30 fps DO	●	●			±2%DO ±1%TT							●																	
Engineered Fiberglass Composites 608/562-5900																			PF,PB																	
ERDCO Engineering Corp. 847/328-0550							VA	0.4-19500gpm	●	●					1%		±10%			●	●																
Esko Industries Ltd. 604/984-4201	●					●		0-350 USGPM	●	●		1%	2%	5%	10%		0.1%			●																	
Fluid Components Intl 760/744-6950																0.1-0.5%	0.1-0.5%			●	●						H,P									
Forestry Suppliers 601/354-3565, 800/360-7788																			CP																	
Free Flow Inc. 402/332-4818, 800/933-4818							OP	5-276000 gpm											VN,PF,CW PB,HF,CT TF,RW,TR	●																
G O Enviornmental 305/621-2882							IM	6-300 cm/sec							●				CP																	
George Fischer Inc. 714/731-8800							VA				●	●	●		●				MF,RW,TR	●									●	●						
Global Water Instrumentation 916/638-3429											±1%				±1%				PF,PB HF	●	●	●								●						
Greyline Instruments Inc. 315/788-9500													±2%						AV,US	●	●															
Hach Co. 970/669-3050																			VN,RW,TR CW,PF,PB TR,MF,HF,CP	●	●	●	●	●												
Hedland Flow Meters 262/639-6770							VA	.02-0.2 to 20-300 gpm	●				±1%		±1%					●	●								●	●						
Hoffer Flow Controls 252/331-1997															±.5%					●	●			●		●			●	●						
Instruments Direct Inc. 888/722-5543							DO TT	0-105fps					±1%						VN,PB,MF RW,PF,TR CT,CP,TF US,OP	●						●			●						
Intek Inc. 614/895-0301																	±1%			●	●						●			●						
Key Instruments 215/357-0893							VA	22 ccm - 400 lpm	●																												
King Instrument Co. 714/891-0008								.6-25 - 450 gpm												●									●								VA
Marsh-McBirney a Hach Brand 301/874-5599																			CP,EL RA,DO	●	●	●	●													
McCrometer 951/652-6811	●						VC		●	●	±0.5%				±2%					●	●						●			●	●			●			
McMillan Co. 512/863-0231							MT	±1.0%FS	●	●					±1.0% FS		±1.0% FS			●	●															
Mesa Labs Inc. Nusonics Div. 303/987-8000													1-2%							●								●								
Omega Enginering Inc. 203/359-1660, 800/826-6350		●				●	VA	0.02cc/min 7200 lpm	●	●	1%	1%	2%	0.5%	1%	1%	1.5%			●	●								●	●		●			●		
Plasti Fab Inc. 503/692-5460																			VN,PF,MF,TF RW,PB,HF TR,CT,CW																	
Preso Meters Corp. 262/417-1151		●			●	●	VA	.6-5000 gpm	●	●		±1%	±1%	±1%	±1%					●	●								●	●		●				
Quality Control Equipment 515/266-2268	●	●											1%						VN,PF,US RW,PB	●	●	●														
RFI Flowmeter Group 262/639-6770		●			●	●	VA	1/4" 3"			±1%	±1%	±1%		±1%					●	●					●										
STI Control L.P. 630/969-4028																	±2%		US,CA,RA	●	●					●			●	●			●			
SeaMetrics Inc. 253/872-0284							PW				±1% reading				1 1/2% FS					●	●									●	●			●			

KEY

AV	Area Velocity	IM	Impeller	RW	Rectangular Weirs
CA	Capacitance	MG	Magnetic	TF	Trapezoidal Flumes
CW	Compound Weirs	MF	Manhole Flumes	TR	Trapezoidal or Cippoletti Weirs
CP	Current Probes or Meters	OP	Open Channel	TT	Transit Time
CT	Cut Throat	PB	Palmer Bowlus	VA	Variable Area
DO	Doppler	PD	Positive Displacement	VC	V-Cone
EL	Electromagnetic	PF	Parshall Flumes	VM	Velocity Meters
FS	Flow Sensors	PW	Paddle Wheel	VN	V-Notch Weirs
HF	H Flumes	RA	Radar	US	Ultrasonic
				VS	Vortex Shedding

NETWORKING CAPABILITY

DG	DIGI-FLO
E	Ethernet
H	Hart Protocol
L	Lonworks
M	Modbus
P	Profibus
R2	RS-232
R4	RS-485
F	Foxcom

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Siemens Energy & Automation 215/646-7400							VA		●	●	0.25-0.5%		1%			0.1% rate			US	●	●		●			●	H,P										
Sparling Instruments Inc. 626/444-0571											●	●	●	●						●							●											
Stevens Water Monitoring 503/469-8000, 800/452-5272							OP												VN,PF,MF,RW HF,TR,CW,TF	●	●	●	●			●											
Swoffer Instruments Inc. 206/575-0160																			CP																			
Teledyne Isco 402/464-0231, 800/228-4373							VA													●		●	●			●											
Unidata America 503/697-3570													2%							●	●	●				●											
Weber Sensors Inc. 770/592-6630																	5%			●																	●

KEY

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DO	Doppler
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VM	Velocity Meters
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VS	Vortex Shedding

NETWORKING CAPABILITY

DG	DIGI-FLO
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H	Hart Protocol
L	Lonworks
M	Modbus
P	Profibus
R2	RS-232
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F	Foxcom