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	Magnetic Meters	Ultrasonic Meters	PD Meter	Turbine Flow Meter	Variable Area Flow Meter	Vortex Flow meters
Mass Flow	-	-	-	-	-	
Air/Gases	-	-		A	4	4
Steam	-	-	-		<u> </u>	4
Liquids	4	4	4	4	<b>一</b>	7
Model/Series	ALMAG	ALSONIC	ALBRPD,ALGPD & ALHPD	ALTM	ALVAMT	ALVTX
Line Size Compatibility  Key Feature	6 ~ 2000 mm (1/4" ~ 80" )  • For conductive liquids	1/2" ~ 240"( 15 ~ 6000 mm)  • Portable, fixed, spool psc	6 ~ 400 mm ( 1/4-16")  • High pressure flows	15 ~ 250 mm (1/2" ~ 10")  • Easily cleaned	6 ~ 200 mm (1/4" ~ 8")  • Pressure drop	0.5" ~ 24"( 15 ~ 700 mm)
Key Feature	many type of liners	DSP technology can	Easy to clean	Temperature range from	0.07 ~ 0.7barg	Ideal for steam application Simplified setup
	Larger sizes	measure < 30% particles	Reverse flows	-273 up to +350°C	for gas & steam application	and diagnostic functions.
	up to 2000mm	Excellent for BTU and	Low operating noise	• Fast response time	Ni-MH Battery(3 years)	4-20 mA and pulse
	Both AC or DC available	energy measurement	Constant K-factor	Low flows designed	Consistent overall length	outputs; user selectable.
	NIST certificate	Clamp or insertion sensors	Low pressure drop	with sapphire bearings	Heating jacket design	NIST certificate
		NIST certificate	NIST certificate	<ul> <li>Pressures up to 4000 barg</li> </ul>	NIST certificate	
Measurement						
Flow Rate	<b>*</b>	<b>*</b>	<b>♦</b>	<b>*</b>	<b>*</b>	<b>*</b>
Total Flow	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>
Temperature	-	BTU, temp available	-	-	-	
Density	-	-	-	-	-	
Flow Element			0.005 ~ 1000 LPM(GPD&HPD)		Liquids 0.01 ~ 3,333 LPM	Steam - 6.4 to 267,000 Kg/Hr
Flow Range	0.01 ~ +/- 12 m/s.	0.01 ~ +/- 32 m/s.	55 ~ 27,000 LPM (BRPD)	0.03 ~ 500 LPM	Gases 0.03 ~ 4000 M3/Hr	Gas - 3 to 180,000 M3/Hr
Turndown Ratio	. 0.00/ . 0.50/ D	.0.50/ -5	±0.25% (GPD,HPD)	.0.450/	20:01	Liquid - 6 to 5900 LPM
Accuracy	± 0.2% ,± 0.5% Reading	±0.5% of reading	±0.1% (BRPD)	±0.15%	+/- 1% of reading	liquid +/- 0.7% Rdg
Viscosity Process Temperature	180 ℃	-20 ~ +50 ℃	5 ~ 1,000,000 cSt 0 ~ +250 ℃	0 ~ 60 cSt -275 ~ +350 ℃	15m ~ 20 mm - < 30 CP -80 ~ +200 °C (Standard)	gas/steam+/- 1.0% Rdg wafer, flange or insertion
Operating Pressure	350 Bar	No need to monitor pressure	1600 Bar <b>(HPD)</b> ,64 Bar ( <b>BRPD</b> )		40 bar	-20 ~ +350 Dec. C(Optional)
Connection	PTFE, FEP,	Clam-On sensors	threads, flanges, etc	BASF flanges,(ANSI and DIN),	JIS , DIN and ANSI available	64 Kg/cm2(Max.)
Connection	Polyurethane, Neoprene	Clairi-Oil 3Cli3Oi3	bores for SAE flanges 11/4	tri-clamp,ermeto threads, NPT	510 , Bitt and Aitor available	JIS . DIN and ANSI available
Wetted materials	Liner - 316 SS, Has and	No wetted material needed	SS per DIN 1.4305/AISI 303	Body: 1.4305, (316 Ti)		Stainless Steel 304
Wolled Materials	B/C, Ti, Ta, Platinum	No world material needed	1.4571/AISI 316 Ti	Wheel: 1.4122,(1.4460)		Stainless Steel 316
Transmitter				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
outputs ( standard )	4-20 mA & Scale pulse	4-20 mA or 0-20 mA	8-30 VDC & 4-20 mA, Pulse	8-30 VDC & 4-20 mA, Pulse	4-20 mA and Scale pulse	4-20 mA (2 wire)
outputs ( optional )	Hart, Modbus, RS485	Pulse RS485, RS-232	RS485/232, MODBUS		Key pad for setup	RS485, HART, MODBUS
Integral or Remote Mounting	Integral/Remote	Integral/Remote	Integral/Remote	Integral/Remote	Integral	Integral/Remote
Digital Display Option	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>
Enclosure Protection/Ratings	IP65 / IP67 / IP68 / Ex proof		IP 65, aluminum AlMgSiPb	IP 65, aluminum AlMgSiPb	IP 65 aluminum	IP 65 aluminum
Power Supply	24VDC, 90-260 VAC	90 ~ 260Vac 50/60 Hz	14-30 VDC	14-30 VDC	11 ~ 36VDC( 2 wire 4-20 mA)	11 ~ 36 VDC(2 wire 4-20 mA)
Agency Approvals	(€	(£	II 2 G EEx ia IIC T4, CF BVS 03 ATEX E 205	BVS 03 ATEX E 205	Eex ia IIC T5	Explosion Proof, Exd IIB T4
					Ex d IIB T6	Intrinsically Safe, Exib IIC T4
	Liquid Slurries	Portable flow monitoring	Polyurethane & polymers	Fuel oil	Leak Detection	Dirty gas application
	Water & Wastewater	Food and beverage	Isocyanate	Solvents	Pump Seal	Wet gas application
Industries	Corrosive Liquids	Water and wastewater	Sealing materials	Di water	Automotive	Liquids
and Applications	Chemical Processing	Refined and Crude oils	Petrochemical products	Pharmaceuticals	Sampling Systems	Saturated steam
	Cellulose/cosmetics	Bi-directional flow	Fats	Liquefied gas	Analyzers	Superheated steam
	Food & Beverage Cement, lime	Ultra pure fluid Alcohol / acid	Light,heavy or crude oils Glues, Paints	Food Industry Automotive	Refrigeration Blanketing Systems	
	Pharmaceuticals	Oil Derivatives	Abrasive fluids	Refineries	Temperature Controls	,
	Fertilizer	Batch control	Coating wax	High pressure (4000 barg)	Water Filtration	
		Dater control	WANAY Smartmeasurement	, ,		

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