
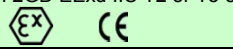
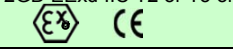
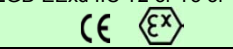
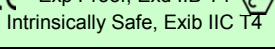
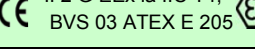



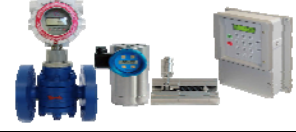


						
	Thermal Flow Meter		Coriolis Flow Meter		Vortex Flow meters	DP Meters						
Mass Flow	👍	👍	👍	👍	👍	*** 👍						
Air/Gases	👍	👍	-	-	👍	👍						
Steam	-	-	-	-	👍	👍						
Liquids	-	-	👍	👍	👍	👍						
Model/Series	ATMF8000IL		ATMF8000IS		ALCMMB		ALCMDT & UT		ALVT		Acone	
Line Size Compatibility	6.3 ~ 100 mm (1/4" ~ 4")		≥ 50mm (2")		15mm~8mm (0.5" ~ 3")		15mm~200mm (0.5" ~ 8")		0.5" ~ 24"(15 ~ 700 mm)		15-3000mm (1/2"~120")	
Key Feature	<ul style="list-style-type: none"> Directly measure mass flow of gas Up to four in-dependent switch able flow curves Available with Infrared communicator for remote access of data 		<ul style="list-style-type: none"> Directly measure mass flow of gas Up to four in-dependent switch able flow curves Measure higher velocity than other thermal meter - up to 203 m/s 		<ul style="list-style-type: none"> Directly measure mass flow of liquid Suitable for aggressive and contaminated media Free of dead spots Individual 8-point-calibration report 		<ul style="list-style-type: none"> Directly measure mass flow of liquid Suitable for aggressive and contaminated media Free of dead spots Individual 8-point-calibration report 		integral mass flow Ideal for steam application Simplified setup and diagnostic functions. 4-20 mA and pulse outputs; user selectable. • NIST certificate		<ul style="list-style-type: none"> Dirty gas application Up stream requirements only 3 diameters For liquids, gas & steam Lowest Pressure drop than any DP in the market *** Using SMC Mass Flow Computer 	
Measurement	Flow Rate Total Flow Temperature Density		Flow Rate Total Flow Temperature Density		Flow Rate Total Flow Temperature Density		Flow Rate Total Flow Temperature Density		Flow Rate Total Flow Temperature Density		Flow Rate Total Flow Temperature Density	
Flow Element	Flow Range Turndown Ratio Accuracy Process Temperature Operating Pressure Connection Flow element wetted materials		Flow Range Turndown Ratio Accuracy Process Temperature Operating Pressure Connection Flow element wetted materials		Flow Range Turndown Ratio Accuracy Process Temperature Operating Pressure Connection Flow element wetted materials		Flow Range Turndown Ratio Accuracy Process Temperature Operating Pressure Connection Flow element wetted materials		Flow Range Turndown Ratio Accuracy Process Temperature Operating Pressure Connection Flow element wetted materials		Flow Range Turndown Ratio Accuracy Process Temperature Operating Pressure Connection Flow element wetted materials	
Transmitter	outputs (standard) outputs (optional) Integral or Remote Mounting Digital Display Option Enclosure Protection/Ratings Power Supply		outputs (standard) outputs (optional) Integral or Remote Mounting Digital Display Option Enclosure Protection/Ratings Power Supply		outputs (standard) outputs (optional) Integral or Remote Mounting Digital Display Option Enclosure Protection/Ratings Power Supply		outputs (standard) outputs (optional) Integral or Remote Mounting Digital Display Option Enclosure Protection/Ratings Power Supply		outputs (standard) outputs (optional) Integral or Remote Mounting Digital Display Option Enclosure Protection/Ratings Power Supply		outputs (standard) outputs (optional) Integral or Remote Mounting Digital Display Option Enclosure Protection/Ratings Power Supply	
Agency Approvals	II 2GD EExd IIC T2 or T3 or T4 		II 2GD EExd IIC T2 or T3 or T4 		II 2GD EExd IIC T2 or T3 or T4 		II 2GD EExd IIC T2 or T3 or T4 		II 2GD EExd IIC T2 or T3 or T4 		II 2 G EEx ia IIC T4, BVS 03 ATEX E 205 	
Industries & Applications	Biogas (waste water) Exotic gases (semiconductor) Chemical processing gases Pharmaceutical gases Natural gas/Fuel gases Refinery gases Automotive industries Compressed air		Biogas (waste water) combustion Controls Chemical processing gases Stack gases Natural gas/Fuel gases Refinery gases Automotive industries Compressed air		Automotive Fuel consumption Hydraulics Petrochemicals Polyurethane Food industry Pharmaceutical Industries Custody Transfer liquids		Automotive Fuel consumption Hydraulics Petrochemicals Polyurethane Food industry Pharmaceutical Industries Custody Transfer liquids		Dirty gas application Wet gas application Liquids Saturated steam Superheated steam		Dirty gas application Wet gas application Liquids Saturated steam Superheated steam No straight run applications Low pressure drop	

					
	Magnetic Meters	Ultrasonic Meters	PD Meter & Batch Control	Turbine Flow Meter	Variable Area Flow Meter
Mass Flow	-	-	-	-	-
Air/Gases	-	-	-	👍	👍
Steam	-	-	-	-	👍
Liquids	👍	👍	👍	👍	👍
Model/Series	ALMAG	ALSONIC	ALBRPD,ALGPD & ALHPD	ALTM	ALVAMT
Line Size Compatibility	6 ~ 2000 mm (1/4" ~ 80")	1/2" ~ 240" (15 ~ 6000 mm)	6 ~ 400 mm (1/4-16")	15 ~ 250 mm (1/2" ~ 10")	6 ~ 200 mm (1/4" ~ 8")
Key Feature	<ul style="list-style-type: none"> For conductive liquids many type of liners Larger sizes up to 2000mm Both AC or DC available NIST certificate 	<ul style="list-style-type: none"> Portable, fixed, spool psc DSP technology can measure < 30% particles Excellent for BTU and energy measurement Clamp or insertion sensors NIST certificate 	<ul style="list-style-type: none"> High pressure flows Easy to clean Reverse flows Low operating noise Constant K-factor Low pressure drop NIST certificate 	<ul style="list-style-type: none"> Easily cleaned Temperature range from -273 up to +350°C Fast response time Low flows designed with sapphire bearings Pressures up to 4000 barg 	<ul style="list-style-type: none"> Pressure drop 0.07 ~ 0.7barg for gas & steam application Ni-MH Battery(3 years) Consistent overall length Heating jacket design NIST certificate
Measurement					
Flow Rate	◆	◆	◆	◆	◆
Total Flow	◆	◆	◆	◆	◆
Temperature	-	BTU, temp available	Batch control, filters and air eliminators available	-	-
Density	-	-	-	-	-
Flow Element					
Flow Range	0.01 ~ +/- 12 m/s.	0.01 ~ +/- 32 m/s.	0.005 ~ 1000 LPM(GPD&HPD) 55 ~ 27,000 LPM (BRPD)	0.03 ~ 500 LPM	Liquids 0.01 ~ 3,333 LPM Gases 0.03 ~ 4000 M3/Hr
Turndown Ratio			±0.25% (GPD,HPD)		20:01
Accuracy	± 0.2% ,± 0.5% Reading	±0.5% of reading	±0.1% (BRPD)	±0.15%	+/- 1% of reading
Viscosity			5 ~ 1,000,000 cSt	0 ~ 60 cSt	15m ~ 20 mm - < 30 CP
Process Temperature	180 °C	-20 ~ +50 °C	0 ~ +250 °C	-275 ~ +350 °C	-80 ~ +200 °C (Standard)
Operating Pressure	350 Bar	No need to monitor pressure	1600 Bar(HPD),64 Bar (BRPD)	4000 bar	40 bar
Connection	PTFE, FEP, Polyurethane, Neoprene	Clam-On sensors	threads, flanges, etc...	BASF flanges,(ANSI and DIN), tri-clamp,ermeto threads, NPT	JIS , DIN and ANSI available
Wetted materials	Liner - 316 SS, Has and B/C, Ti, Ta, Platinum	No wetted material needed	bore for SAE flanges 1¼ SS per DIN 1.4305/AISI 303 1.4571/AISI 316 Ti	Body: 1.4305, (316 Ti) Wheel: 1.4122,(1.4460)	
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
outputs (optional)	Hart, Modbus, RS485	Pulse RS485, RS-232	RS485/232, MODBUS		Key pad for setup
Integral or Remote Mounting	Integral/Remote	Integral/Remote	Integral/Remote	Integral/Remote	Integral
Digital Display Option	◆	◆	◆	◆	◆
Enclosure Protection/Ratings	IP65 / IP67 / IP68 / Ex proof	IP65 / IP67	IP 65, aluminum AlMgSiPb	IP 65, aluminum AlMgSiPb	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)
Agency Approvals	CE	CE	II 2 G EEx ia IIC T4, BVS 03 ATEX E 205	II 2 G EEx ia IIC T4, BVS 03 ATEX E 205	Eex ia IIC T5 Ex d IIB T6
Industries and Applications	Liquid Slurries Water & Wastewater Corrosive Liquids Chemical Processing Cellulose/cosmetics Food & Beverage Cement, lime Pharmaceuticals Fertilizer	Portable flow monitoring Food and beverage Water and wastewater Refined and Crude oils Bi-directional flow Ultra pure fluid Alcohol / acid Oil Derivatives Batch control	Polyurethane & polymers Isocyanate Sealing materials Petrochemical products Fats Light,heavy or crude oils Glues, Paints Abrasive fluids Coating wax	Fuel oil Solvents Di water Pharmaceuticals Liquefied gas Food Industry Automotive Refineries High pressure (4000 barg)	Leak Detection Pump Seal Automotive Sampling Systems Analyzers Refrigeration Blanketing Systems Temperature Controls Water Filtration