Coriolis Mass Flow Meter



FCM-Series Coriolis Mass Flow Meter directly measures the "Mass" of the medium with high accuracy based on the Coriolis Principle (Coriolis Force). The accuracy would not be affected by any factors like the temperature, pressure, density, viscosity, etc. And the compensation calculation is not required. The Coriolis Mass Flow Meter consists of two parts: the Senor and the Transmitter. The Corioils Mass Flow Meter is designed and produced based on the national standard of explosion- proof standards. The Explosionproof standard is Exd ib Ii Ct5 Gb.

Coriolis Mass Flow Meter could directly measure the " Mass" of the liquid. And the accuracy is the highest among all types of flow meter, saying, 0.1~0.2%. The range of application is very large, and it could be used for the medium that difficult to be measured, like, high temperature, high pressure, high viscosity, double phases, triple phases. The requirements for the installation are low, the straight pipe requirement in front of and behind the Coriolis Mass Flow meters are low. They are more reliable, stable, and maintenance level is low.



Application	Suitable for liquid,gas, liquid-solid, Liquid-gas mass measurement or volume measurement
Material of Pipeline	SS316L/ Hastelloy HC
Pressure	Refer to chart shown above. Special orders would be placed for high pressure
Medium Temerature	-50°C~150°C -50°C~250°C -50°C~350°C -100°C~350°C
Enviroment Temperature	Sensor: -40°C~150°C; Transmitter:-20°~70°C
Flow Rate Measurement Accuracy	0.2%; 0.1% optional
Density Measurement Accuracy	0.002g/cm3;0.001g/cm3 optinal
Repeatability	0.10% Flow Rate±[1/2(Zero Point Stability/ Flow Rate)*100]% flow rate
Output Signal	4~20mA Load Resistance<500Ω(Instantaneous or Density optional) 0~10kHz Instantaneous Flow Rate pulse signal; Standard RS485 Communication
Explosion-proof Symbol	Ex d ib II CT5 Gb

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Flow Range

Micro Type

Model	DN (mm)	Flow Range (kg/h)	Working Pressure Mpa	Connection Type
FCM-1-1-AB	1.5	0~4	0~32	Weld Joints ø6×1.5
FCM-1-1-A	3	0~40	0~32	Weld Joints ø6×1.5
FCM-1-1-B	6	0~100	0~25	Weld Joints ø10×2
FCM-1-2-A	8	0~200	0~20	Weld Joints ø10×1

Medium-Small Type

Model	DN (mm)	Flow Range (kg/h)	Working Pressure (Mpa)	Connection Type
FCM-1-3-A	12	0~500	0~25	Weld Joints ø20×4
FCM-1-3-B	14	0~1000	0~25	Weld Joints ø20×3
FCM-1-4	16	0~3000	0~25	Weld Joints ø20×2
FCM-1-5-A	25	0~10000	0~25	Weld Joints ø31×3

Large-Scale Type

Model	DN (mm)	Flow Range (t/h)	Working Pressure (Mpa)	Connection Type
FCM-1-3-A	10	0-0.5	0~4	Flange 10
FCM-1-3-B	15	0-1.0	0~4	Flange 15
FCM-1-4	20	0-3.0	0~4	Flange 20
FCM-1-5-A	25	0-10	0~4	Flange 25
FCM-1-5-B	40	0-20	0~4	Flange 40
FCM-1-6-A	50	0-30	0~4	Flange 50
FCM-1-6-AB	65	0-50	0~4	Flange 65
FCM-1-6-B	80	0-100	0~4	Flange 80
FCM-1-6-C	100	0-150	0~4	Flange 100
FCM-1-6-D	150	0-300	0~2	Flange 150
FCM-1-6-E	200	0-500	0~2	Flange 150



Micro Type



Medium-Small Type



Large-Scale Type

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Model selection

Model	Suffix Code											Description
FCM-	❶	❷	❸	❹	❺	❻	❼	❽	❾	❿	⓫	Coriolis Mass Flowmeter
Diameter	03											DN3 ; 0-40 kg/h
	06											DN6 ; 0-100 kg/h
	08											DN8 ; 0-200 kg/h
	10											DN10 ; 0-500 kg/h
	15											DN15 ; 0-1000 kg/h
	20											DN20 ; 0-3000 kg/h
	25											DN25 ; 0-10 ton/h
	40											DN40 ; 0-20 ton/h
	50											DN50 ; 0-30 ton/h
	65											DN65 ; 0-50 ton/h
	80											DN80 ; 0-100 ton/h
	100											DN100;0-150 ton/h
	125											DN125 ; 0-200 ton/h
	150											DN150 ; 0-500 ton/h
	200											DN200 ; 0-800 ton/h
	250											DN250 ; 0-1000ton/h
Signal Output		4										4-20mA/ 0-10KHz
Communication			5									RS485
			7									Hart
			4									None
Pressure Rate				16								1.6 Mpa
				40								4.0 Mpa
				XX								On request
Temperature Rating					T1							-50~ 150 °C
					T2							-50~ 250 °C
					T3							-50~ 350 °C
					T4							-200~150°C
Wet Part Material						I6						SS 316
						A						Hastelloy Alloy C
						T						PTFE (Only available for large diameter)
						XX						On request
Accuracy Rating							02					0.20% of rate
							15					0.15% of rate
							10					0.10% of rate
Connection Way								AXX				ANSI Flange; A15: ANSI 150#; A30: ANSI 300#...
								DXX				DIN Flange; D16: DIN PN16; DN25: DIN PN25...
								JXX				JIS Flange; J10K: JIS 10K; J20K: JIS 20K...
								CLA				Tri-clamp type(Sanitary connection)
								R				Thread connection
Body Material									I4			SS304
									I6			SS316
Structure										C		Compact type with local display
										R		Remote display include bracket
Power Supply											1	24V DC
											0	220V AC