



M A D E C O instrumentation

# MADECO Coriolis Mass Flowmeter



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# Coriolis Mass Flow Meter



MDCMF-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 Sensor and the Transmitter. The Coriolis Mass Flow Meter is designed and produced based on the national standard of explosion- proof standards. The Explosion-proof 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 law, the straight pipe requirement in front of and behind the Coriolis Mass Flow meters are law. They are more reliable, stable, and maintenance level is law.



<b>Application</b>	Suitable for liquid, gas, liquid-solid, Liquid-gas mass measurement or volume measurement
<b>Material of inside line</b>	SS316L/ Hastelloy HC
<b>Pressure</b>	Refer to chart Special orders would be placed for high pressure
<b>Medium Temperature</b>	-50°C~150°C -50°C~250°C -50°C~350°C -100°C~350°C
<b>Environment Temperature</b>	Sensor: -40°C~150°C; Transmitter:-20°~70°C
<b>Flow Rate Measurement Accuracy</b>	0.2%; 0.1% optional
<b>Density Measurement Accuracy</b>	0.002g/cm <sup>3</sup> ;0.001g/cm <sup>3</sup> optional
<b>Repeatability</b>	0.10% Flow Rate±[1/2(Zero Point Stability/ Flow Rate)*100]% flow rate
<b>Output Signal</b>	4~20mA Load Resistance<500Ω( Instantaneous or Density optional) 0~10kHz Instantaneous Flow Rate pulse signal; Standard RS485 Communication
<b>Explosion-proof Symbol</b>	Ex d ib II Ct5 Gb

### Micro Type

Model	DN (mm)	Flow Range (kg/h)	Working Pressure (Mpa)	Connection Type
MDCMF-1-1-AB	1.5	0~4	0~32	Weld Joints $\phi 6 \times 1.5$
MDCMF-1-1-A	3	0~40	0~32	Weld Joints $\phi 6 \times 1.5$
MDCMF-1-1-B	6	0~100	0~25	Weld Joints $\phi 10 \times 2$
MDCMF-1-2-A	8	0~200	0~20	Weld Joints $\phi 10 \times 1$

### Medium-Small Type

Model	DN (mm)	Flow Range (kg/h)	Working Pressure (Mpa)	Connection Type
MDCMF-1-3-A	12	0~500	0~25	Weld Joints $\phi 20 \times 4$
MDCMF-1-3-B	14	0~1000	0~25	Weld Joints $\phi 20 \times 3$
MDCMF-1-4	16	0~3000	0~25	Weld Joints $\phi 20 \times 2$
MDCMF-1-5-A	25	0~10000	0~25	Weld Joints $\phi 31 \times 3$

### Large-Scale Type

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



Micro Type



Medium-Small Type



Large-Scale Type

## Model selection

Model	Suffix Code											Description
MDCMF	1	2	3	4	5	6	7	8	9	10	11	Coriolis Mass Flowmeter
<b>Diameter</b>	1A											DN3 ; 0-40 kg/h
	1B											DN6 ; 0-100 kg/h
	2A											DN8 ; 0-200 kg/h
	3A											DN10 ; 0-500 kg/h
	3B											DN15 ; 0-1000 kg/h
	4A											DN20 ; 0-3000 kg/h
	5A											DN25 ; 0-10 ton/h
	5B											DN40 ; 0-20 ton/h
	6A											DN50 ; 0-30 ton/h
	6AB											DN65 ; 0-50 ton/h
	6B											DN80 ; 0-100 ton/h
	6C											DN100;0-150 ton/h
	6CD											DN125 ; 0-200 ton/h
	6D											DN150 ; 0-500 ton/h
	6E											DN200 ; 0-800 ton/h
	6F											DN250 ; 0-1000ton/h
<b>Signal Output</b>	1											4-20mA/ 0-10KHz
<b>Communication</b>	1											RS485
	2											Hart
	3											None
<b>Pressure Rate</b>				16								1.6 Mpa
				40								4.0 Mpa
				XX								On request
<b>Temperature Rating</b>					T1							-50~ 150 °C
					T2							-50~ 250 °C
					T3							-50~ 350 °C
					T4							-200~ 150°C
<b>Wet Part Material</b>						S6						SS 316
						HC						Hastelloy Alloy C
						PT						PTFE ( Only available for large diameter )
						XX						On request
<b>Accuracy Rating</b>							02					0.20% of rate
							15					0.15% of rate
							10					0.10% of rate
<b>Connection Way</b>								AXX				ANSI Flange; A15: ANSI 150#; A30: ANSI 300#...
								DXX				DIN Flange; D16: DIN PN16; DN25: DIN PN25...
								TRC				Tri-clamp type( Sanitary connection)
								THR				Thread connection
<b>Body Material</b>								S4				SS304
								S6				SS316
<b>Structure</b>									S			Compact type with local display
									L			Remote display include bracket
<b>Power Supply</b>										0		24V DC
										1		220V AC



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