



Coriolis Mass Flow Meter



SCM-Coriolis Mass Flow Meter

The Product

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.

Applications

- Gasses
- Liquids
- Custody transfer
- Reactor feed ratio
- Density measurement
- Batch Control

The Product

- U shape design-provides excellent stability and repeatability
- Dedicated ASIC with digital closed-loop control (DLC) improves the performance of gas-liquid flow measurement
- Dynamic vibration balance (DVB) technology enhances system stability
- 2-point temperature compensation and process pressure compensation
- Special configurations for difficult applications (e.g. high temperature)



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Technical Data

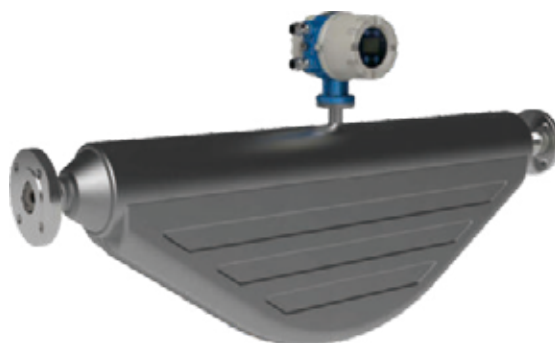
Measuring Tube	SS316L , Hastelloy C	
Pressure	Refer to chart shown above. Special orders would be placed for high pressure	
Medium Temperature	-50°C ... +130°C	
	-50°C ... +180°C	
	-50°C ... +250°C	
	-50°C ... +350°C	
Ambient Temperature	-25oC...+60oC (with LCD); -40oC...+85oC (without LCD)	
Flow Rate Accuracy	±0.1% ; ±0.2% ; ±0.5 %	
Density Measurement Accuracy	ERROR: 0.0005g/cm ³ (0.5 g/m ³)	
Repeatability	Liquid	≤ 0.05%
	Gas	≤ 0.17%
Uncertainty	Liquid	±0.10 %
	Gas	± 0.35%
Output	4-20mA ; Pulse	
Communication	RS485; HART; Profibus DP; FF	
Explosion Proof	ExdibIICT6Gb	
Protection	IP67	



The Product



UT-Type
(DN15/DN25 ONLY)



V-Type
(DN 2/5/10 ONLY)



U-Type
(≥ DN40)

Model Selection

Model	Suffix Code											Description
SCM-	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	Coriolis Mass Flow Meter
Type	U											U Type
	V											V Type
Diameter		XXX										Stand for diameter 001: DN1; 250: DN 250
Signal Output			1									4-20mA/0-10KHz
Communication			1									RS485
			2									Hart
			3									PF
			4									FF
			5									None
Temperature Rating				T1								-50...+130°C
				T2								-50...+180°C
				T3								-50...+250°C
				T4								-50...+350°C
Measuring Tube					S6							SS316
					HC							Hastelloy C
					XX							On request
Accuracy Rating						01						±0.1% of rate
						02						±0.2% of rate
						05						±0.5% of rate
						XX						On request
Connection							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...
							TRC					Tri-clamp type(Sanitary connection)
							THR					Thread connection (<DN 40)
Body Material								S4				SS304
								S6				SS316
Structure									S			Compact type with local display
									L			Remote display include bracket
Power Supply										0		24V DC
										1		220V AC

Flow Range

U-Type

Diameter (mm)	DN(mm)	Liquid Flow Range (kg/h)	K-gas coefficient
SCM-U-001N	1	20	60
SCM-U-002N	2	60	60
SCM-U-005N	5	300	70
SCM-U-010N	10	1000	80
SCM-U-015N	15	6000	90
SCM-U-025N	25	10000	140
SCM-U-040N	40	20000	140
SCM-U-040N	40	30000	140
SCM-U-050N	50	30000	140
SCM-U-050N	50	60000	160
SCM-U-080N	80	60000	160
SCM-U-080N	80	180000	215
SCM-U-100N	100	100000	200
SCM-U-100N	100	280000	230
SCM-U-150N	150	300000	230
SCM-U-150N	150	640000	240
SCM-U-200N	200	1100000	250
SCM-U-250N	200	1800000	300

V-Type

Specification	Liquid		K-gas coefficient
	lb/min	Kg/h	
SCM-VS-005	22	600	60
SCM-VS-015	220	6000	70
SCM-VS-025	660	18000	70
SCM-VS-040	1100	30000	80
SCM-VS-050	1480	40000	80
SCM-VS-080	2200	60000	100

Note: Gas Flow range = liquid flow range x gas process density/ K.