



TIANJIN SURE INSTRUMENT CO., LTD.

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Products Brochure

E.910/21Rev001

***SURE WE ARE,
SURE TO BE BETTER.***

**TO WORK WITH INNOVATIVE SPIRIT
TO DEVELOP HIGH QUALITY PRODUCTS
FOR THE MEASUREMENTS OF FLUIDS.**



Assembly Workshop



Calibration Device



Impeller Processing Equipment



With excellent staffs, advanced equipments, strict quality control system and good services, our products are widely sold to more than 97 countries and gain good reputation from customers. Our aim is to provide a metering solution that helps our customers achieve operational improvement through their production capability, usually, in the form of reduced energy usage, improved product quality, lower emissions and greater production throughout. Reducing emissions, carbon footprint, and your company's impact on the environment is our goal. Not only will have a strong social and environmental impact but also a positive economic impact today and future.

THE COMPANY

TIANJIN SURE INSTRUMENT is engaged into the design, manufacture and service of measurement and analysis instruments field. With 14 years development, we have become one of the outstanding enterprises in this field in China.

At present, Sure Instrument is a professional and responsible flow meter enterprise with 353 staffs, 73000m² standardized workshops and machining centers, high-precision numerical control machines automated assembling line as well as other equipments.



CORIOLIS MASS FLOW METER



DESCRIPTION

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

- Gases
- Liquids
- Custody transfer
- Reactor feed ratio
- Density measurement
- Batch control

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	-25°C...+60°C(with LCD); -40°C...+85°C (without LCD)	
Flow Rate Accuracy	±0.1%; ±0.2%; ±0.5%	
Density Measurement Accuracy	ERROR: 0.0005g/cm³(0.5g/m³)	
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	



FEATURES

- 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)

PRODUCTS GALLERY



UT-Type
(DN15/DN25 ONLY)



V-Type
(DN2/5/10 ONLY)



U-Type
(≥ DN40)

MODEL SELECTION

Model	Stuffix 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

Model	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-040H	40	30000	140
SCM-U-050N	50	30000	140
SCM-U-050H	50	60000	160
SCM-U-080N	80	60000	160
SCM-U-080H	80	180000	215
SCM-U-100N	100	100000	200
SCM-U-100H	100	280000	230
SCM-U-150N	150	300000	230
SCM-U-150H	150	640000	240
SCM-U-200N	200	1100000	250
SCM-U-250N	250	1800000	300

Note: 3mm,6mm,8 mm could be customized and contact us.

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 × gas process density / K .

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