

HTM SERIES CORIOLIS MASS FLOWMETERS



Model No. : HTM-U
Model Type : U Type



Model No. : HTM-V
Model Type : V Type



Model No. : HTM-UT
Model Type : UT Type

HTM SERIES CORIOLIS MASS FLOWMETERS



Model No. : HTM-U / V / UT

The Coriolis Mass flowmeter directly measures the "mass" of a medium with high accuracy, based on the Coriolis force. Accuracy is not affected by factors such as temperature, pressure, density, viscosity, etc. and requires no calibration calculations. The HTM Coriolis mass flow meter can be applied to gas, liquid, custom transfer, reactor feed ratio, density measurement, and batch control.

Features :

- U-shaped design - provides excellent stability and repeatability
- Dedicated ASIC with Digital Closed Loop Control (DLC) improves gas-liquid flow measurement performance.
- DVB (Dynamic Vibration Balance) technology improves system stability
- Temperature compensation and process pressure compensation
- Special configuration for demanding applications (eg. high temperature)

GENERAL SPECIFICATIONS

Measuring Tube	SS316L, Hastelloy C
Medium Temperature	-50°C ~ +130°C -50°C ~ +180°C -50°C ~ +250°C -50°C ~ +350°C
Ambient Temperature	-50°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/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	Exdib II CT6Gb
Protection	IP67

HTM SERIES CORIOLIS MASS FLOWMETERS



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

Note : 3mm, 6mm, 8mm could be customized.

V-TYPE			
Model	Liquid		K-Gas Coefficient
	lb/min	Kg/h	
HTM-V-005	22	600	60
HTM-V-015	220	6000	60
HTM-V-025	660	18000	70
HTM-V-040	1100	30000	70
HTM-V-050	1480	40000	80
HTM-V-080	2200	60000	100

Note : Gas flow range = Liquid flow range x Gas process density / K.

HCM SERIES CORIOLIS MASS FLOWMETERS



Model No. : HCM-U
Model Type : U Type



Model No. : HCM-M
Model Type : Microbend Type



Model No. : HCM-SC
Model Type : Sanotary Type

HCM SERIES CORIOLIS MASS FLOWMETERS



Model No. : HCM-U / M / SC

The HCM series, Coriolis mass flow meters are designed according to the Coriolis principle. It is used in many industries such as petroleum, petrochemical industry, pharmacy, paper, food and energy, etc., and can be widely used in the production of pharmaceuticals, paper, food and products. As the most up-to-date flow measurement equipment, it has attracted attention in the measurement field, and is accepted by many customers at home and abroad.

Features :

- Direct measurement of mass of fluid in pipeline – Prevention of measurement error of intermediate conversion
- Wider flow range, high accuracy and good repeatability
- Measured fluids can be broader, such as regular viscous fluids, highly viscous fluids, non-Newtonian fluids, sludge containing some solid components, and constant uniform flow of liquids containing some trace gases.
- Stability and improved lifespan due to less vibration
- In addition to mass flow measurement, density and temperature measurement and output are possible
- Accurately measure the moisture content of oil
- Multiple parameter display and output possible

GENERAL SPECIFICATIONS

Medium	Liquid, Gas
Structure & Medium	Integrate type : -50 ~ +125 °C Separate type : -50 ~ +200 °C
Temperature Range Sensor	Low temperature type : -50 ~ +125 °C U series, Micro-bend series, Super micro-bend series
Transmitter	Digital type
Explosion-proof	Explosion-proof type
Power Supply	DC 18 ~36V, AC 85~265V
PN (MPa)	1.6, 2.5, 4.0, 6.3 (higher PN like 10.0, 16.0, 26.0 MPa is available for some sizes)
Output Signal	Pulse output, 4~20mA
Communication	RS-485 Modbus, HART
Accuracy	0.1%, 0.15%, 0.2%, 0.5%
Ingress Protection Rating	IP67
EMI	Conform to IEC 61326 (Industrial) EMC Directive
Hygeian Type	Customized
Thermal Jacket Type	Customized
Process Connection	GB/T 9115-2010 as default standard, other standards can be customized
Flange Standard	JID, DIN, ANSI

FLOW RANGE FOR LIQUID (Triangle and U-shaped type DSP Transmitter)

DN (mm)	Measurable Flow Range (Kg/h)	Normal Flow Range for Accuracy 0.1% (Kg/h)	Normal Flow Range for Accuracy 0.2% (Kg/h)	Normal Flow Range for Accuracy 0.5% (Kg/h)	Stability of Zero Point (Kg/h)
10	10~1000	70~1000	60~1000	50~1000	0.04
15	30~3000	150~3000	100~3000	80~3000	0.12
25	80~8000	400~8000	300~8000	280~8000	0.32
40	320~32000	2000~32000	1500~32000	1300~32000	1.2
50	500~50000	3500~50000	2500~50000	2000~50000	2
80	1400~140000	8000~140000	7000~140000	6000~140000	6
100	2000~200000	15000~200000	12000~200000	10000~200000	8
150	5000~500000	35000~500000	30000~500000	25000~500000	20
200	10000~1000000	100000~1000000	70000~1000000	50000~1000000	40

FLOW RANGE FOR GAS (DSP Transmitter)

DN (mm)	Measurable Flow Range (Kg/h)	Normal Flow Range for Accuracy 0.2% (Kg/h)	Normal Flow Range for Accuracy 0.5% (Kg/h)	Stability of Zero Point (Kg/h)
10	50~1000	50~1000	25~1000	0.13
15	15~3000	150~3000	75~3000	0.38
25	40~8000	400~8000	200~8000	1.00
40	160~32000	1600~32000	800~24000	4.00
50	250~50000	2500~50000	1250~40000	6.25
80	700~120000	7000~140000	3500~120000	17.5
100	1000~200000	10000~200000	5000~200000	25.0
150	2500~500000	25000~500000	12500~500000	62.5
200	5000~1000000	50000~1000000	25000~1000000	125

HCM-LNG & CNG Series CORIOLIS MASS FLOWMETERS



Model No. : HCM-LNG

Model Type : LNG Type

Features :

- Reduced size, direct connection technology
- Wider flow range, high accuracy
- Can be used in gas filling machines such as automobiles and heavy-duty automobiles.

The HCM-LNG, Coriolis mass flow meter is specifically designed to measure the mass flow of cryogenic media such as LNG. It can work normally at temperature -162 with an accuracy of up to 0.1%..

FLOW RANGE

DN (mm)	Measurable Flow Range (Kg/h)	Normal Flow Range for Accuracy 0.1% (Kg/h)	Normal Flow Range for Accuracy 0.2% (Kg/h)	Stability of Zero Point (Kg/h)
15	30~3000	150~3000	100~3000	0.38
25	80~81111000	400~8000	300~8000	1.00

ACCURACY & REPEATABILITY

Accuracy	0.20%	0.10%
Repeatability	0.10%	0.05%



Model No. : HCM-CNG

Model Type : CNG Type

Features :

- Reduced size, direct connection technology
- Wider flow range, high accuracy
- Can be used in gas filling machines such as automobiles and heavy-duty automobiles.

HCM-CNG, mass flow meter is specially designed for CNG industry and can meet your CNG flow measurement requirements. Coriolis mass flow meter capable of high-precision measurement of compressed natural gas (CNG) and automobile fuel to reduce pollution caused by automobile exhaust.

FLOW RANGE

DN (mm)	Measurable Flow Range (Kg/h)	Normal Flow Range for Accuracy 0.1% (Kg/h)	Normal Flow Range for Accuracy 0.2% (Kg/h)	Stability of Zero Point (Kg/h)
15	30~3000	150~3000	100~3000	0.38
25	80~81111000	400~8000	300~8000	1.00

ACCURACY & REPEATABILITY

Accuracy	0.20%	0.10%
Repeatability	0.10%	0.05%