

➤ GENERAL

HBCMF Coriolis mass flowmeters are the leading precision flow and density measurement solution offering the most accurate and repeatable mass measurement for liquids, or slurries. HBCMF meters offer the most accurate measurement available for virtually any process fluid, while exhibiting exceptionally low pressure drop.



➤ FEATURES

- Unchallengeable HBCMF performance on liquid mass flow, volume flow, and density measurement
- Unique design delivers unparalleled measurement sensitivity and stability
- Guarantees consistent, reliable performance over the widest flow range
- Designed to minimize process, mounting, and environmental effect



➤ APPLICATIONS

Low Flow Precision Measurement	Precision Measurement & Process Control	High Capacity Precision Measurement
Starting at 9.6kg/hr to 120kg/hr Flavoring Vials Chemical injection	Kg/min – tons/hr Truck loading Internal allocation Leak detection Produced fluids with chlorides	Up to 360 tons/hr Custody transfer Ship loading Railcar loading Pipeline measurement Marine bunkering Feedstock and fuel blending



➤ LIQUID FLOW RATES

Model	Nominal Size (mm)	Flow rate (kg/hr)	Stability zero, kg/h
			0.2%
HBCMF-003	3	9.6~96	0.0144
HBCMF-006	6	54~540	0.081
HBCMF-008	8	96~960	0.144
HBCMF-010	10	150~1500	0.225
HBCMF-015	15	300~3000	0.45
HBCMF-020	20	600~6000	0.9
HBCMF-025	25	960~9600	1.44
HBCMF-032	32	1800~18 000	2.7
HBCMF-040	40	3000~30 000	4.5
HBCMF-050	50	4800~48 000	7.2
HBCMF-080	80	12000~120 000	18
HBCMF-100	100	192000~192 000	30
HBCMF-150	150	36000~360 000	36

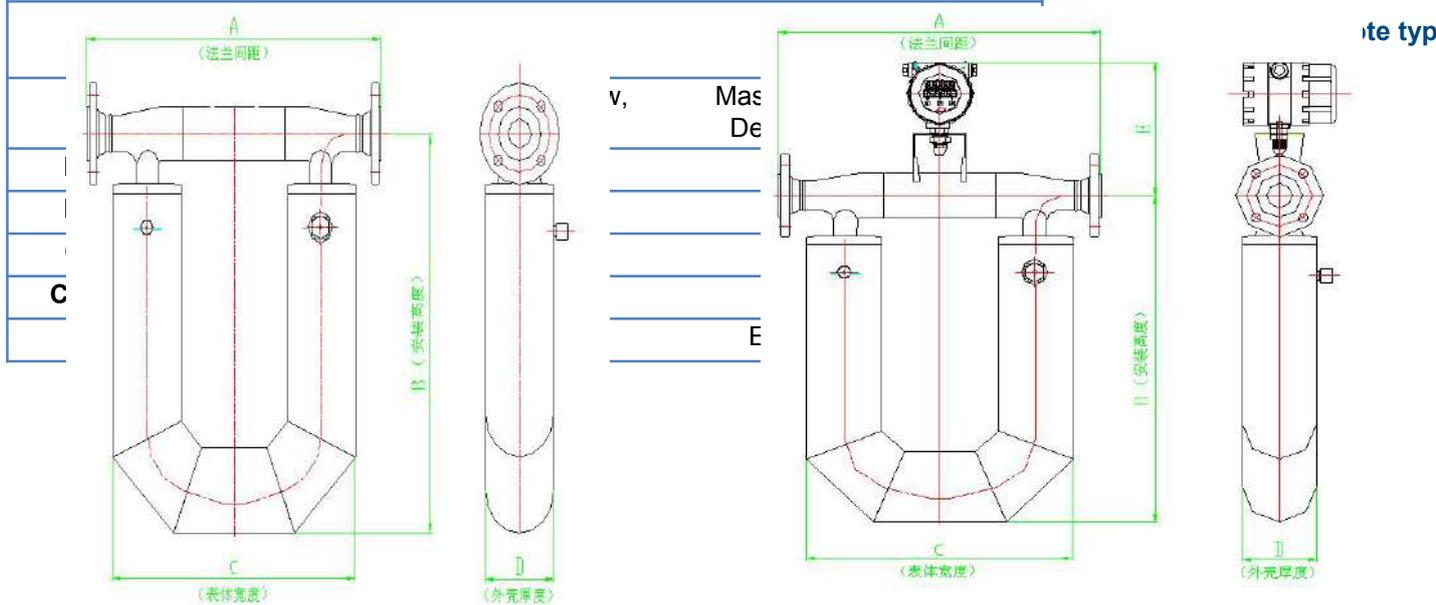
➤ SENSOR SPECIFICATIONS

- Accuracy: $\pm 0.1 \sim 0.5\%$
- Repeatability: $\pm 0.1 \sim 0.25\%$
- Density measurement range: $0.3 \sim 3 \text{g/cm}^3$, Accuracy: $\pm 0.002 \text{g/cm}^3$
- Operating temperature: $-50 \sim +200^\circ\text{C}$ (standard), $-200 \sim +300^\circ\text{C}$
- Ambient temperature: $-20 \sim +60^\circ\text{C}$ or $-40 \sim +60^\circ\text{C}$
- The measuring tube material: SS316L; The housing material: SS304
- Nominal pressure: 4.0MPa (standard)
- Ex-proof: Exd (ia) II C T6Gb

➤ TRANSMITTER SPECIFICATIONS

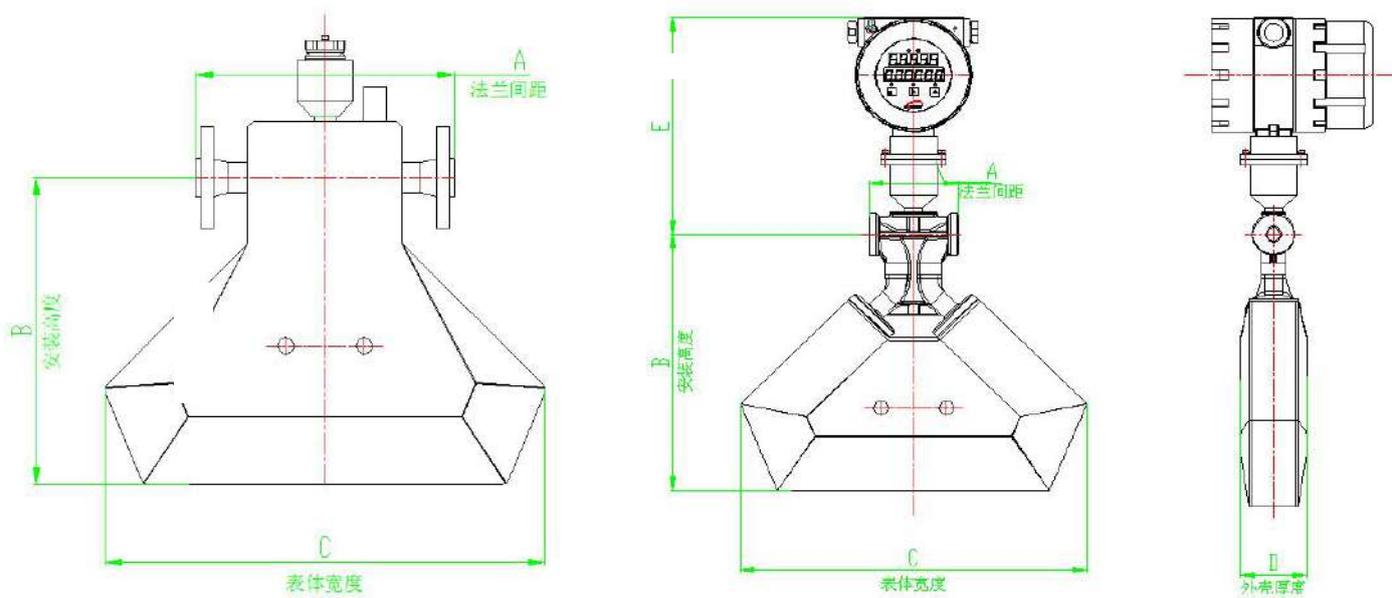
Item	FT-521 LED	FT-522 LCD
Picture		
Principle	Analog signal processing	Analog signal processing
Medium temperature	-200~+300°C	-200~+300°C

➔ **DIMENSION**



Size	A	B	C	D	E	NW(only sensor)
	mm	mm	mm	mm	mm	kg
20	540	478	468	108	245	17
25	540	492	468	108	245	17.5
32	544	517	468	108	245	24
40	600	635	500	140	267	32
50	606	653	500	140	267	36
80	866	857	779	219	316	87.5
100	950	977	833	273	340	165

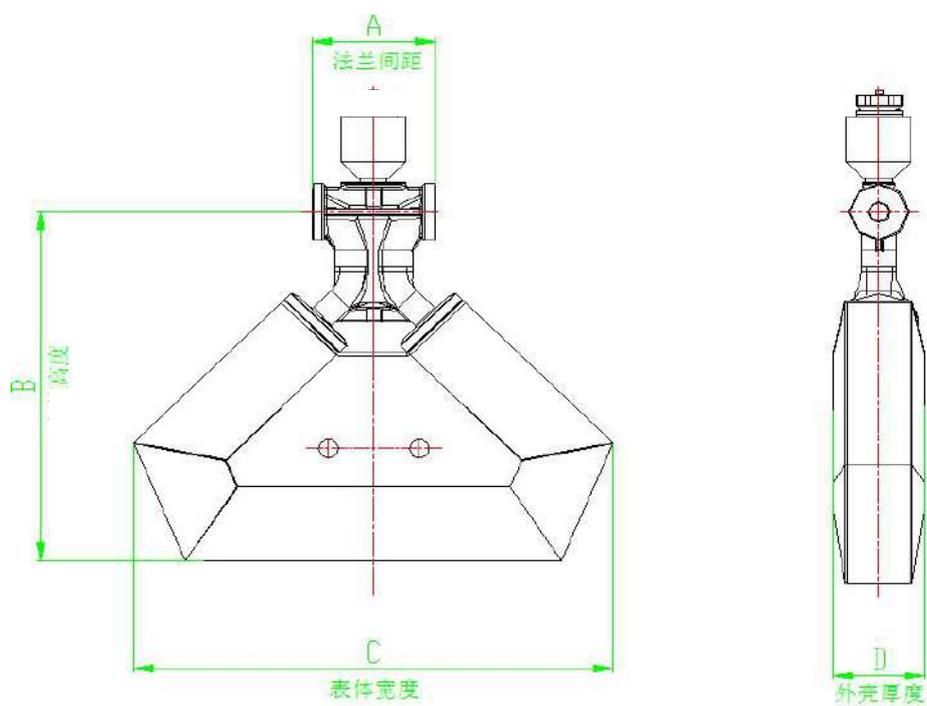
Triangle type



Remote type HBCMF008 / 006 / 003

DN3 DN6 DN8

DN10 DN15 Compact type



Remote type HBCMF010 / 015

DN10 DN15 Remote type

size	A	B	C	D	E	NW
	mm	mm	mm	mm	mm	kg
3	196	176	250	54	270	4.8
6	250	263	360	70.5	289	8.1
8	250	275	395	70.5	289	8.2
10	95	283	370	70.5	264	6.5
15	95	302	405	70.5	264	6.5

Note: The size of A will vary depending on the process connection type.

SELECTION CODE

Model	1	2	3	4	5	6	7	8	9	10	11	Description
HBCMF-												
Diameter	003											DN3
	006											DN6
	008											DN8
	010											DN10
	015											DN15
	020											DN20
	025											DN25
	032											DN32
	040											DN40
	050											DN50
	080											DN80
	100											DN100
	150											DN150
	Structure	C										
R												Remote type
Medium temperature	N											-50...+200°C
	H											-50...+300°C
	L											-200...+200°C
Rated pressure	1											1.6MPa
	2											2.0MPa
	4											4.0MPa
	Z											Customized
Power supply	D											DC24V
	A											AC220V
	Z											22-245V
Output signal	R											Pulse/4-20mA/RS485
	H											Pulse/4-20mA/HART
Cable entry							M					M20x1.5

	N					1/2"NPT
	Z					Customized
Accuracy		1				0.1%
		2				0.15%
		3				0.2%
		4				0.5%
Connection			F			Flange
			T			Thread
			C			Tri-clamp
			P			Pipe fittings
			Z			Customized
Explosion			E			Exd(ia)IICT6Gb
			N			Safe environment
Others				Z		Customized