



UK Flowtechnik

Specialists in flow metering, pumps, couplings
and process measurement equipment

PRODUCT DATASHEET

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UniMass-E Coriolis Flowmeter



The CFS-E is a traditional twin 'V' shaped tube Coriolis flowmeter optimised for everyday use and cost effectiveness. It is suitable for a wide range of liquids from chemicals & additives to fuels & oils along with gases such as air/Nitrogen to more exotic gases and mixtures. With its high frequency excitation, it not only has a high immunity to external vibration but has a fast response making it suitable not only for continuous flow measurement but also dosing and batching. Couple this with transmitter options to suit every budget and requirements from OEM just pulse/ Modbus to multi-line display with analogue outputs, serial communications such as HART, Modbus FF and Profibus, the Walsn UniMass CFS-E suites every need.

Features & Benefits

- Up to 260,000 Kg/Hr in 8 ranges
- From DN2 up to DN80, 8 sizes
- 316L Stainless Steel or Hastelloy C22 wetted parts
- Bi-Directional flow measurement
- Compact twin 'V' shaped tubes
- Max 100 Bar (Stainless Steel), 200 Bar (Hastelloy)
- Max 150°C
- Display, outputs for Mass flow, Total, density & temperature (depending on CFC transmitter type)

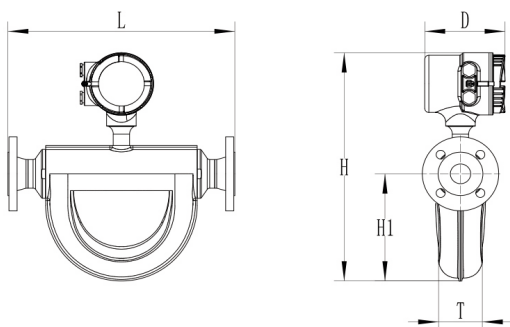
Technical Data for Low Pressure Stainless Steel Meters

	DN2	DN4	DN10	DN15	DN25	DN40	DN50	DN80
Nominal Flow KG/Hr	80	350	1,500	4,500	12,000	28,000	70,000	150,000
Max Flow KG/Hr	140	600	2,600	7,800	21,000	50,000	120,000	260,000
Tube & Flange Material	316L Stainless Steel or Hastelloy C22							
Linearity	+/- 0.2% of Reading (Liquids), +/- 0.5% of Reading (Gas), +/- 2KG/M3 (Density)							
Max Pressure	100 Bar							
Temperature Ranges	-50°C to +150°C							
CFC-010 Transmitter	Blind meter mounted with pulse output and RS485 Modbus serial communications (20-36 Vdc or 85-245 Vac)							
CFC-020 Transmitter	Blind meter mounted with 4-20 mA (HART) & pulse output and RS485 Modbus serial communications (20-36 Vdc or 85-245 Vac)							
CFC-030 Transmitter	Meter or remote mounted, display with 4-20 mA (HART) & pulse output and RS485 Modbus serial communications (20-36 Vdc or 85-245 Vac)							

Technical Data for Low & High Pressure Hastelloy Meters

	DN10	DN25	DN25	DN40	DN10	DN15	DN25	DN40
Nominal Flow KG/Hr (Low pressure meter)	1,100	4,200	14,000	32,000				
Max Flow KG/Hr (Low pressure meter)	2,000	7,500	25,000	56,000				
Nominal Flow KG/Hr (high pressure meter)					1,100	4,500	12,000	28,000
Max Flow KG/Hr (high pressure meter)					2,000	7,800	21,000	50,000
Tube & Flange Material	Hastelloy C22							
Linearity	+/- 0.2% of Reading (Liquids), +/- 0.5% of Reading (Gas), +/- 2KG/M3 (Density)							
Max Pressure	100 Bar (low pressure), 200 Bar (high pressure)							
Temperature Ranges	-50°C to +150°C							
CFC-010 Transmitter	Blind meter mounted with pulse output and RS485 Modbus serial communications (20-36 Vdc or 85-245 Vac)							
CFC-020 Transmitter	Blind meter mounted with 4-20 mA (HART) & pulse output and RS485 Modbus serial communications (20-36 Vdc or 85-245 Vac)							
CFC-030 Transmitter	Meter or remote mounted, display with 4-20 mA (HART) & pulse output and RS485 Modbus serial communications (20-36 Vdc or 85-245 Vac)							

Dimensional Data (CFS-E with CFC-030 shown for reference)



	L(mm)	D(mm)	T(mm)	H(mm)	H1 (mm)	Weight (Kg)
2	232	157.5	60	346	118	6
4	232	157.5	60	346	118	6
10	232	157.5	60	346	118	6.3
15	279	157.5	64	384	153	7.5
25	329	157.5	73	414	180	10.4
40	445	157.5	99	463	217	17.4
50	556	157.5	137	550	286	35
80	693	157.5	175	618	337	56

Ordering Information

