



HIGH-PERFORMANCE MULTI-PARAMETER FLOW MEASUREMENT

SITRANS FC Coriolis for Food & Beverage Industry

Perfect fit for hygienic processes

The food and beverage industries are subject to many regulations to ensure product safety and quality. Maintaining strict hygienic standards during food production is crucial. SIEMENS' unwavering commitment to stringent safety standards is evident in the SITRANS FC portfolio. The products obtained certification in alignment with the guidelines set by the European Hygienic Engineering & Design Group (EHEDG) and the 3-A Sanitary Standards.

The dedication goes beyond

SIEMENS understands that achieving a delicate balance between regulatory compliance and market competitiveness could be challenging. SITRANS FC mass flow meters allow you to meet regulatory compliance and simultaneously achieve process performance and reliability.

Choosing SITRANS FC ensures various benefits

Operations such as storage, pumping or dosing require highly accurate flow measurement, and thus contribute to quality assurance and product consistency. Opting for the certified products ensures compliance with the strict hygienic and quality standards and provides convenient and cost-efficient maintenance for process equipment. Collectively, these advantages contribute to creating a secure and efficient operational environment for food processing applications.

Highlights

- **Hygienic and self-draining** design preventing potential contamination. Fulfills requirements of EHEDG and 3-A.
- **Inline viscosity calculation** for Newtonian fluids.
- **Inline concentration measurement** of known fractions (e.g. °Brix) as well as customer-specific fractions.
- **Energy-efficient** low pressure loss design with short tube paths and large internal tube diameter.
- **Tube health check** and key **diagnostics** for inline meter verification without disturbing running measurements.
- Batching function with **adaptive batch control** for precise and repeatable dosing.
- Highly accurate **mass flow, temperature and density** measurement.

SIEMENS

Within SIEMENS Coriolis flowmeters portfolio, flowmeters **SITRANS FCS500** and **SITRANS FCS600** are especially designed for food and beverage processing applications. We offer flowmeter models with varying nominal diameters (DN) and sanitary process connection sizes to fulfill different requirements and provide versatility and precision for a wide range of applications.



Elevate distillery productivity with Alcohol by Volume (ABV) solution

A game-changing solution is designed to enhance distillery productivity of time-served production methods without compromising the exceptional quality of final products. Accurate, flexible, and data-driven Alcohol by Volume Measure (ABV) uses "best in class" calculations to provide highly accurate multi-parameter measurements, ideal for calculating custom and excise duties.

The solution, used on stills, recirculation lines, blending, cask filling or spirit transfer, records real-time readings for live data analysis, enabling ongoing optimization, performance analysis and proactive maintenance schedules.

Siemens collaborates with industry partners to deliver this ground-breaking solution, which addresses wastage issues caused by underfilling, overfilling, or foaming, resulting in millions of losses.

	SITRANS FCS500 DN10 to DN50		SITRANS FCS600 DN15 to DN65	
	Size:	Max. Flow	Size:	Max. Flow.
Liquid and Gas Measurement	DN10	2.300 kg/h	DN15	5.000 kg/h
	DN15	7.000 kg/h	DN25	17.000 kg/h
	DN25	29.000 kg/h	DN40	50.000 kg/h
	DN50	76.000 kg/h	DN65	170.000 kg/h
In- and Outputs	Current output, Puls, Status, Current Input			
I/O Communication	HART, Modbus, Profibus PA			
Process connection types	Thread, clamp and flange connections with hygienic approval			
Wetted Parts material	316L (1,4404) polished Ra ≤ 0.8 µm			
Process Temperature	-70°C to +140°C (-94°F to +284°F)		-70°C to +150°C (-94°F to +302°F)	
Max. Pressure Resistance	depending on process connection			
Measurement Accuracies Mass Liquid Density Liquid	up to ±0,1% up to 0,005 g/cm ³			
Mounting	Compact and remote			

Discover more:

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