

SIEMENS

Clean, reliable and easy to integrate

SITRANS FC300 and SIFLOW FC070 – your PWIS-free Coriolis solution

Process Instrumentation



Several factors can lead to component contamination by substances containing silicone, such as release agents or lubricants used for the extrusion of elastomer profiles. Pigment and filler treatment with emulsions containing silicone is another example. Grease may also contaminate components during the production process.

This is why we have developed an innovative cleaning and test method for paint shops/paint processing, that excludes any paint-wetting impairment. Siemens now offers a Coriolis solution that is free from “Paint-Wetting Impairment Substances” (PWIS).

Unsurpassed system integration

The ultra-compact Siemens Coriolis solution consisting of the SITRANS FC300 sensor and the SIFLOW FC070 transmitter offers direct integration into the automation systems SIMATIC S7 or PCS7 with unique advantages.

While the extremely robust and resistant SITRANS FC300 ensures optimum mass flow measurement accuracy of 0.1%, the SIFLOW FC070 takes the advantages of the Coriolis measuring principle into the SIMATIC world, enabling seamless integration and state-of-the-art performance.

Installation via the "plug&play" interface is convenient and programming/operation so simple that you can achieve considerable time and cost savings with this solution - assuredly without PWIS.

The combination of Coriolis technology and SIFLOW FC070 offers multiple key benefits to improve painting process control and management:

- Fast step response ensures correct paint dosing
- Accurate multi-parameter measurement of density and temperature provides for optimum control of paint quality process parameters
- 2 built-in totalizers ensure optimum inventory management and monitoring of actual and totalized consumption
- Density limit switching function enables optimum utilization and control of CIP cleaning agents and the CIP cleaning process

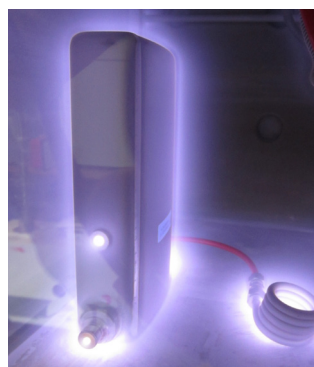
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Trust through technology

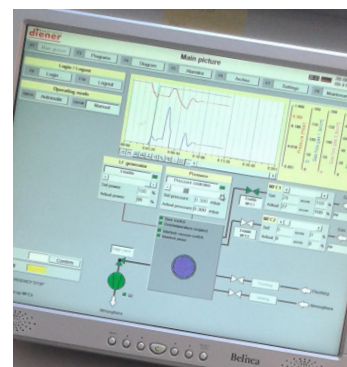
To offer solutions that are assuredly PWIS-free we developed an innovative cleaning and test method based on fully automated PC control.

Using the most up-to-date plasma technology, the SITRANS FC300 sensor is cleaned to eliminate silicone grease, oil and paint-wetting impairment substances from all wetted and external surfaces.

After an additional quality control procedure to verify and check the PWIS-free requirement, the sensor and support are packed and sealed to avoid any contamination during transport.



Cleaning procedure using plasma technology for the removal of silicone grease, oil and paint-wetting impairment substances from all wetted and external surfaces.



The fully automated PC control is a crucial aspect ensuring that quality requirements are met.

Technical data SITRANS FC300 sensor	
Range	0 to 250 kg/h (0 to 772 lbs/h)
Accuracy	≤0,1% of mass flow
Nominal size	DN 4 (1/6")
Operational pressure	Max. 410 bar (5945 psi)
Media temperature	-50 to 115 °C (-58 to 239 °F)
Degree of protection	IP67 (NEMA 4)
Approvals	EEx (ia) IIC T3-T6, ATEX and UL/CSA

Technical data SIFLOW FC070 transmitter	
Outputs	Pulse and frequency , 2-stage batch control
Communications	Backplane SIMATIC PBUS, Profibus DP (via ET200M), Profinet (via ET200M), MODBUS RTU RS232/485
Approvals (Ex Version)	CE, cULus, FM Class I, Div. 2 Groups A, B, C, D, ATEX II (1) G [EEx ia] IIC, ATEX II 3G Ex nA IIC T4 Gc, Namur NE21 and VDE2650, IEC Ex (Ex nA [ia] IIC T4), and NEPSI: Ex nA IIC T4 Gc
Wiring	Silicone-free, up to 150 m

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