

SITRANS FC300
coriolis mass flowmeter
New compact meter size DN 4



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With the launch of a new generation of compact coriolis mass flowmeter SITRANS FC300 – size DN 4 (0–350 kg/h) – Siemens continues the development of coriolis mass flowmeters with special emphasis on compactness and system integration. Combined with unsurpassed performance SITRANS FC300 – DN 4 offers the following benefits:

- Compact sensor design only 135 x 205 x 58 mm
- Unsurpassed performance and accuracy – 0.1 % of mass flow rate
- Large dynamic turndown range 1:100
- Corrosion and installation optimized enclosure in stainless steel
- Mounting bracket and multiple connector facilitate installation in less than 10 minutes
- Intrinsic safe Ex approval as standard

SIEMENS

Extremely robust sensor design

A new developed encapsulation-design and manufacturing method has enabled the Siemens R&D engineers to create a very robust and rigid stainless steel encapsulation with a surprisingly low weight of only 3.5 kg. The result is a sensor easy to install in a wide range of applications.

Maximum immunity to noise

The rigid construction makes the sensor insensitive to process generated noise such as vibrations, pulsations, pressure shocks, etc. The result is a very stable zero-point giving a large turndown measuring range, and an accuracy better than 0.1 % of mass flow rate.

Only one pipe – with no welds

SITRANS FC300 – DN 4 sensor consists of one straight pipe in a double bended configuration without any welds and is available in two versions: W1.4435 (316 L) and W2.4602 (C-22).

Technical specifications

| | |
|------------------------------------|---|
| Size | DN 4 |
| Measuring range | 0 – 350 kg/h |
| Accuracy | 0.1 % of rate |
| Repeatability | 0.05 % of rate |
| Measuring pipe material & pressure | 1.4435 (316 L) stainless steel, 130 bar 2.4602 (Hastelloy C-22), 410 bar |
| Density | 0 – 2.9 g/cm ³ |
| Fraction | 0 – 100 °Brix |
| Density accuracy | 0.0015 g/cm ³ |
| Temperature, standard version | –40 to + 125 °C |
| High temperature version | –40 to + 180 °C |
| Enclosure material | 1.4404 (316 L) stainless steel |
| Enclosure grade | IP67/NEMA 4X |
| Material | 1.4435 (AISI 316 L) |
| Process connections | ISO 228/1 G 1/4" ANSI/ASME B1.20.1 1/4" NPT |
| Ex approval | EEX ia IIC T3-T6 |
| Weight | 3.5 kg |
| Dimensions | 135 x 205 x 58 mm |



SITRANS FC300 – DN 4 meeting industries toughest challenges

Combined with the robust stainless steel encapsulation in W1.4404 (316 L), the SITRANS FC300 – DN 4 sets new standards in system integration, and fits any environment and application in the process industry.

Through deployment of new innovative solutions and manufacturing techniques, Siemens has managed to increase the compactness of the coriolis flowmeter while increasing its overall performance.



SENSORPROM enables plug & play programming



For more information, go to
www.siemens.com/flow

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