

Thermal Mass Flow Controllers

For Analytical Instrument Applications



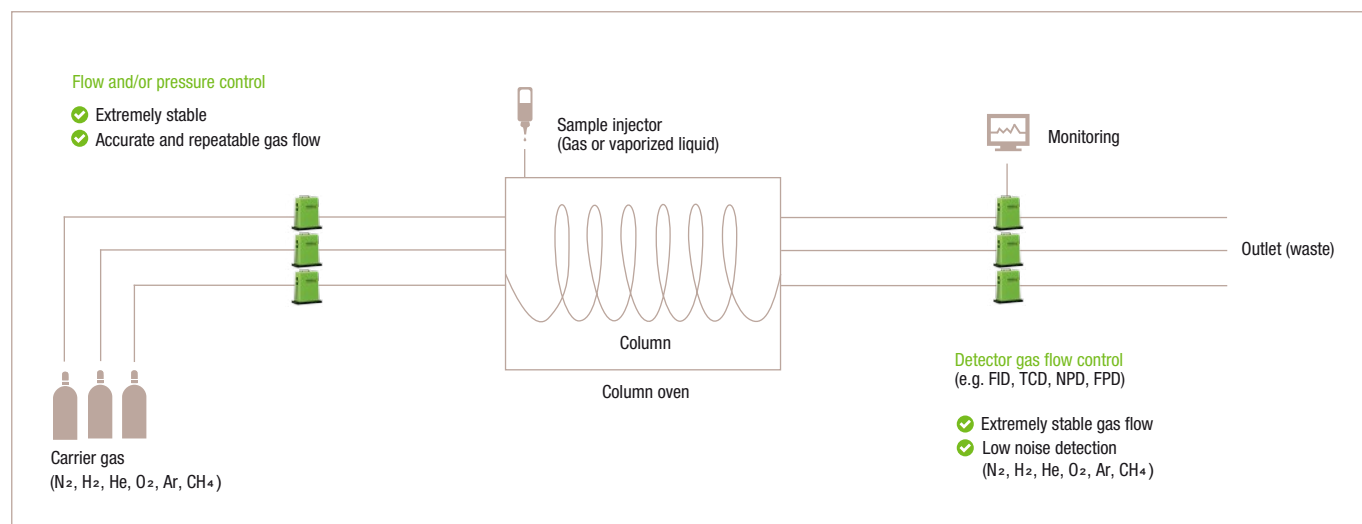
- Best-in-class accuracy and repeatability
- Compact robust design and stable performance
- Multigas option
- For GC and thermal analysis equipment
- Customized solutions available



Applications

Gas Chromatography

- SFC5300 for advanced pneumatic system design



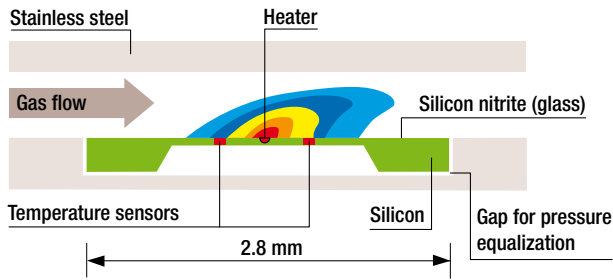
Thermal Analysis

- Purge gas control
- Precise gas flow rates
- Gas switching during analysis (Multigas)

Atomic Emission / Absorption Spectroscopy

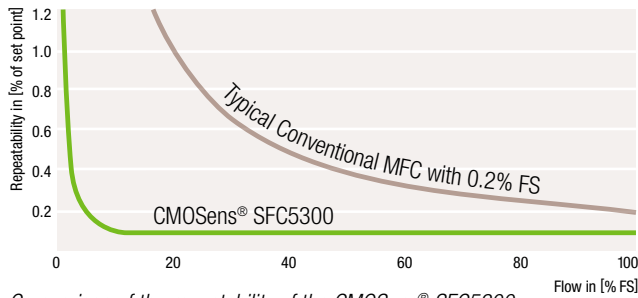
- Flame control

High Performance Measurement Principle

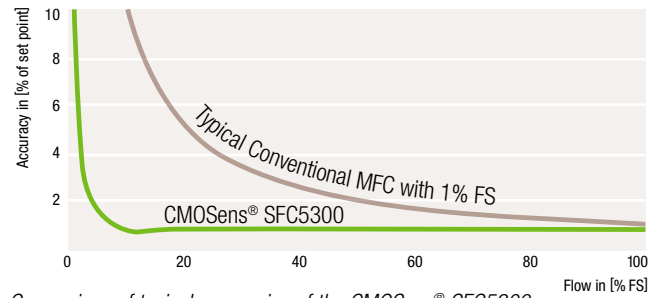


Integrated flow measurement principle

**Excellent repeatability,
highest accuracy!**



Comparison of the repeatability of the CMOSens® SFC5300 device compared to a typical mass flow controller (MFC)



Comparison of typical accuracies of the CMOSens® SFC5300 device compared to a typical mass flow controller (MFC)

Specifications

	SFC5300 Series (OEM)
Flow range ¹	0...10 sccm ... 0...10 slm
Repeatability, % of reading ²	0.2 % s.p.
Repeatability, % of full scale ²	0.02 % FS
Accuracy, % of reading ³	2 % s.p.
Accuracy, % of full scale ³	0.2 % FS
Pressure drop at full flow	<2 bar
Interface (Input, Output)	digital (RS485, IO-Link) and analog (0...5 VDC, 0...10 VDC or 4...20 mA)
Settling time	<100 ms
Available calibrations	Air, N ₂ , H ₂ , He, O ₂ , Ar, CH ₄ and others on request
Gas type switchable by software	yes
Power supply nominal	15.0...24.0 Vdc
Electric connector	Sub-D 9pin
Mounting, gas connection	Downmount
Max. working pressure	10 bar
Operation temperature	0...50 °C

¹ sccm = standard cubic centimeter per minute; slm = standard liter per minute, ^{2,3} whichever is greater

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