Thermal Mass Flow Controllers for PV Applications

- Best-in-class accuracy and repeatability
- Compact robust design and stable performance
- Multigas option
- Customized solutions (OEM)



Applications





Lillanol

High Performance Measurement Principle



Integrated flow measurement principle



Comparison of the repeatability of the CMOSens® SFC5000 device compared to a typical mass flow controller (MFC)





Comparison of typical accuracies of the CMOSens® SFC5000 device compared to a typical mass flow controller (MFC)

Specifications

Model	SFC5400		SFC5300 (OEM)
Flow range ¹	010 slm	20100 slm	010 slm
Repeatability, % of reading ²	0.1 % s.p.	0.2 % s.p.	0.2 % s.p.
Repeatability, % of full scale ²	0.01 % FS	0.02 % FS	0.02 % FS
Accuracy, % of reading ³	0.8 % s.p.	1 % s.p.	2 % s.p.
Accuracy, % of full scale ³	0.08 % FS	0.1 % FS	0.2 % FS
Pressure drop at full flow	<2 bar	<3 bar	<2 bar
Interface (Input, Output)	digital (RS485, I0Link) and analog (05 VDC, 010 VDC or 420 mA)		digital (RS485, I0Link) and analog (05 VDC, 010 VDC or 420 mA)
Settling time	<50 ms	<100 ms	<100 ms
Available calibrations	Air, N_2 , H_2 , He, O_2 , Ar, CH_4 , SF_6 , C_4F_8 and others on request		Air, N_2 , H_2 , He, O_2 , Ar, CH_4 and others on request
Gastype switchable by software	yes	yes	yes
Power supply nominal	15.024.0 Vdc		15.024.0 Vdc
Electric connector	Sub-D 9pin		Sub-D 9pin
Mounting, gas connection	Downmount, Swagelok, VCR, VCO		Downmount
Max. working pressure ⁴	10 bar		10 bar
Operation temperature ⁴	050 C°		050 C°

¹ slm = standard liters per minute , ^{2,3} whichever is bigger, ⁴ different ranges on request

SENSIRION AG Laubisruetistrasse 50 CH- 8712 Staefa ZH Switzerland

phone: + 41 44 306 40 00 fax: + 41 44 306 40 30 www.sensirion.com info@sensirion.com Sensirion Inc., USA phone: +1 805 409 4900 info_us@sensirion.com

Sensirion Korea Co. Ltd. phone: +82 31 345 0031 3 info@sensirion.co.kr Sensirion Japan Co. Ltd. phone: +81 3 3444 4940 info@sensirion.co.jp

Sensirion China Co. Ltd. phone: +86 755 8252 1501 info@sensirion.com.cn

To find your local representative, please visit www.sensirion.com/locations

