

## Datasheet SFC5500 mass flow controller

### Datasheet – V2

- Excellent accuracy and repeatability (0.8% / 0.1% of setpoint respectively)
- Very wide control range (better than 1000:1)
- Ultra-fast settling time (<100 ms)
- G 1/4" flange compatible with a broad range of connectors: e.g. Swagelok, Legris, Festo
- Calibrated for multiple gases (Air, N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>, He, CH<sub>4</sub>, N<sub>2</sub>O, Ar, CO<sub>2</sub>)
- Digital interface with temperature-compensated output
- EK-F5x evaluation kit for quick and easy testing
- NIST-traceable calibration
- Mean Time Between Failures (MTBF) 169 years
- No drift and no re-calibration required in the field



## Unsurpassed CMOSens® Technology

The heart of SFC5500 product is the unsurpassed Sensirion CMOSens® technology. It combines a high precision sensor element with state-of-the-art signal processing on a single chip and thereby providing an accurately calibrated and temperature compensated signal (Figure 1). Thanks to this sensor technology, SFC5500 achieves unmatched ratings for speed, accuracy and repeatability at very attractive system cost. Due to the excellent long-term stability of SFC5500, no recalibration is required.

The SFC5500 offers fastest settling time, high control range as well as high flexibility regarding mechanical connectors, which can be easily exchanged with off-the-shelf components. SFC5500 is factory calibrated for multiple gases and it features smart features such as gas recognition and self-test capability.

The brilliant performance of SFC5500 products makes them the best choice for a wide range of applications, such as analytical instrumentation, coating/etching equipment, medical equipment, process automation and gas mixing to name a few.

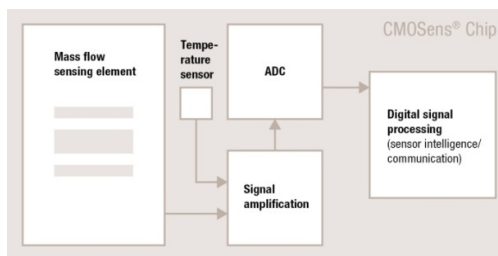


Figure 1: CMOSens® flow sensor diagram.

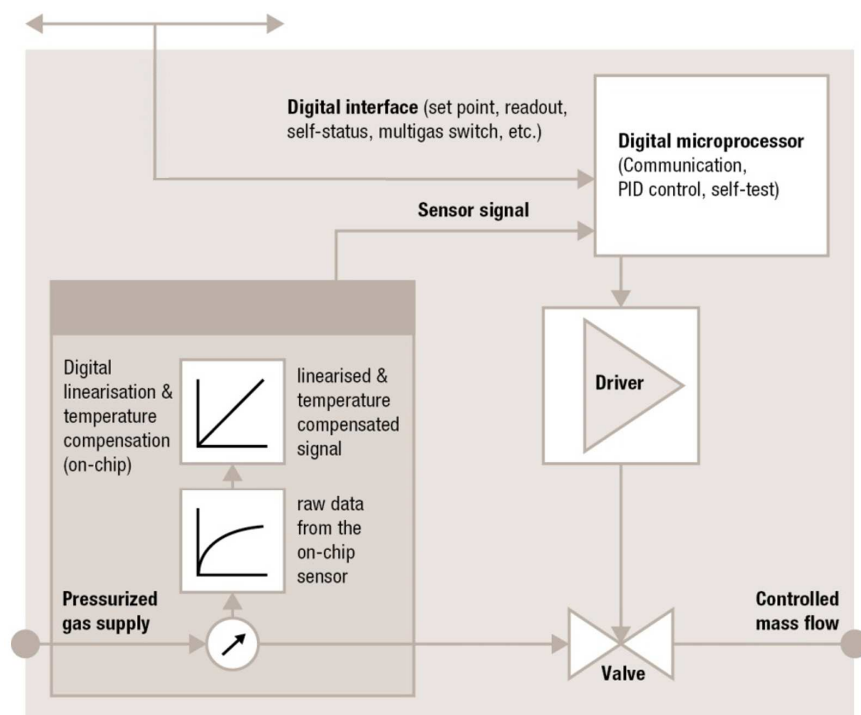


Figure 2: Block diagram CMOSens® SFC5500 mass flow controller.

## Introductory Description

CMOSens®-based SFC5500 measures gas mass flow by the calorimetric principle based on heat transfer. A heater element on a thermally insulated membrane and two thermopiles up-stream and downstream are integrated on a single silicon chip. In the presence of gas flow, the temperature distribution up- and downstream is disturbed. This asymmetry is then measured. The measurement area as well as the A/D-converter and further signal processing are based on a single chip using CMOS standard processes (see Figure 3).

MEMS-based CMOSens® technology enables a larger cross section (about  $1.5 \times 1 \text{ mm}^2$ ) of the gas channel than bypass capillary diameter in conventional mass flow controllers (0.1 to 0.5 mm). This channel design makes the device more robust against particles, clogging and humidified gases. Due to the compact single-chip design and its mounting between metal parts, CMOSens®-based sensors are very resistant to electromagnetic disturbances (EMC).

The minimal thermal mass of the membrane results in an ultra-fast sensor response time of 3-4 ms. Since the whole design of the amplification, A/D conversion, digital linearization and temperature compensation is matched to that sensor speed, a fully compensated flow

measurement value can be delivered every millisecond. Combined with advanced control algorithms running on an on-board microprocessor, SFC5500 offers greatly reduced settling times compared to conventional mass flow controllers (see Figure 2).

Furthermore, a special arrangement of the two temperature sensors, on-chip temperature compensation and the minimization of noise sources lead to unbeatable performance with regards to repeatability and accuracy over a large dynamic range. Thanks to its flawless design, the SFC5500 mass flow controllers show zero-drift performance and control true mass flow independently of the ambient temperature and pressure changes.

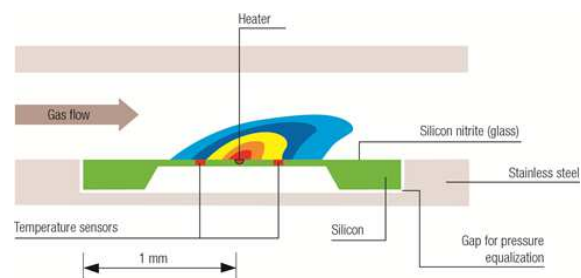


Figure 3: Cross-sectional view of gas channel.

# 1 CMOSens® SFC5500 mass flow controller performance

Table 1: Overview of CMOSens® SFC5500 Mass Flow Controller

All data, unless otherwise noted, apply for the following calibration conditions: Temperature 20°C, Nitrogen (N<sub>2</sub>), 3.0 bar overpressure (inlet: 4.0 bar absolute) against atmosphere (outlet: 1.0 bar absolute), horizontal mounting position (el. connector on top), downmount connection

Specification		Air/N <sub>2</sub> *	O <sub>2</sub>	H <sub>2</sub>	He*	CH <sub>4</sub>	N <sub>2</sub> O	Ar	CO <sub>2</sub> *
Calibration address		0 (default)	1	2	3	4	5	6	7
Full scale flow [slm]	SFC5500-0.5slm	0.5	0.5	2	2	0.5	0.2	0.2	0.2
	SFC5500-10slm	10	10	10	10	10	5.0	5.0	5.0
Accuracy <sup>1</sup> whichever is greater	[% s.p.] <sup>2</sup>	0.80	2.0	3.0	0.80	3.0	3.0	3.0	0.8
	[% FS] <sup>3</sup>	0.08	0.20	0.30	0.08	0.30	0.30	0.30	0.08
Repeatability whichever is greater	[% s.p.]	0.10							
	[% FS]	0.01							
Full scale flow [slm]	SFC5500-200slm	200	160	not calibrated					
Accuracy <sup>4</sup> whichever is greater	[% s.p.]	1.0	2.0	not defined					
	[% FS]	0.10	0.20						
Repeatability <sup>5</sup> whichever is greater	[% s.p.]	0.2							
	[% FS]	0.02							
Specification		Value						Unit	
		0.5 slm		10 slm		200 slm			
Typical setting time <sup>6</sup>		< 100						ms	
Measurement frequency		1000						Hz	
Control range		Better than 1000:1							
Operating temp. (ambient & gas)		0 – 50 / 32 – 122						°C / °F	
Temp. coeff. Zero		0.005						% FS / °C	
Temp. coeff. Span		0.06						% s.p. / °C	
Warming up time <sup>7</sup>		1						s	
Pressure drop at full flow		< 0.7 / 11		< 1.4 / 21		< 4.9 / 72		bar / psig	
Maximum input pressure <sup>8</sup>		10 / 145						bar / psig	
Maximum differential pressure <sup>9</sup>		5 / 73						bar / psig	
Leak integrity MFC external <sup>10</sup>		9 x 10 <sup>-9</sup>				9 x 10 <sup>-6</sup>		mbar l/s He	
Leak integrity through closed valve		1 x 10 <sup>-6</sup>						mbar l/s He	
Mounted fittings		Legris OD 6 mm				Legris OD 10 mm			
Flange		G ¼" threading. Exchangeable fittings							
Interface		Digital: RS 485, IO-Link, DeviceNet							
Flow units		slm (standard liters per minute)							

\* Air, He and CO<sub>2</sub> are calibration gasses. The calibration of remaining gasses is calculated

<sup>1</sup> Including offset, non-linearity and hysteresis. Measured against NIST-traceable reference

<sup>2</sup> in % of set point (s.p.) = measured value (m.v.) = rate = reading value

<sup>3</sup> in % of Full Scale (FS) flow

<sup>4</sup> Valid until 100 slm setpoint. Accuracy deteriorates slightly in 100-200 slm region.

<sup>5</sup> Valid until 100 slm setpoint. Repeatability deteriorates slightly in 100-200 slm region.

<sup>6</sup> Step answer from 10% to 100% of full scale within ±5% of setpoint.

<sup>7</sup> to within ±2 % of setpoint

<sup>8</sup> Pressure between flow inlet and ambient

<sup>9</sup> Pressure between flow inlet and flow outlet. For availability of higher differential pressure option, contact Sensirion

<sup>10</sup> External leak integrity measured with Swagelok connectors. It is not guaranteed with push-in connectors such as Legris

## 1.1 Gas calibration

SFC5500 is factory-calibrated for multiple gasses. Table 1 lists the available calibrations and the calibration addresses saved in internal memory of the MFC. The calibration to be used can be selected by the user. Please see the application notes describing the different interfaces, quick start guide or the Evaluation Kit documentation for instructions on how to activate a desired calibration. These can be found on [www.sensirion.com/sfc5500](http://www.sensirion.com/sfc5500).

Please note that the maximum flow rate achievable with each MFC is strongly dependent on the gas being measured. Table 1 lists the maximum flow rates for all gasses for which the MFCs have been calibrated.

## 1.2 Accuracy

Accuracy describes how precisely the mass flow controller is able to achieve the desired flow rate with respect to the actual flow of a given gas. Accuracy is mostly determined by the quality of the calibration and can be different for each calibration gas.

For example: with mass flow controller set point of 10 slm and a real flow rate measured by an external reference of 10.08 slm, the set point accuracy would be calculated as:

$$Accuracy = \frac{10.08 - 10}{10.08} = 0.8\%$$

Figure 4 compares the set point accuracy of a conventional mass flow controller with a CMOSens® SFC5500. Typically, an accuracy of 1% full scale (FS) is stated for mass flow controllers using conventional sensor technology. Especially at low flow rates the CMOSens® technology reaches superior performance.

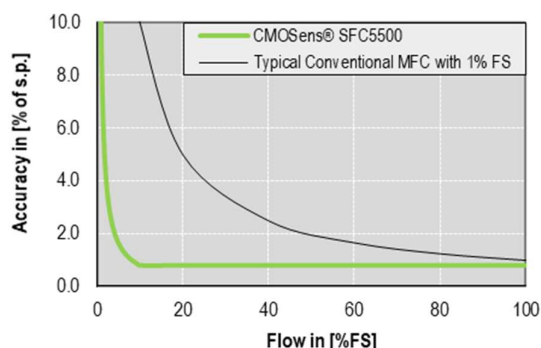


Figure 4: Accuracy comparison of the CMOSens® SFC5500 device compared to a typical thermal mass flow controller.

## 1.3 Repeatability

Unlike accuracy, repeatability is not influenced by calibration quality and is directly related to the build quality of the mass flow controller. It describes how reliably mass flow controller is able to reach a given setpoint (applied repeatably).

For example: if a user applies 10 slm setpoint multiple times and the resulting flows follow a Gaussian distribution centered around 9.97 slm with 0.01 standard deviation, then the repeatability can be calculated as:

$$Repeatability = \frac{0.01}{9.97} = 0.1\%$$

Generally, for mass flow controllers repeatability is better than accuracy. In applications where an additional calibration or feedback loop exists, it is possible to rely on repeatability rather than accuracy of mass flow controller. One example would be an optimized process, where the setpoint value of mass flow controller is fine-tuned to give the desired outcome. In such case, it is not important that the actual flow is close to the set point flow – instead it is important that the optimized set point can be achieved repeatably.

CMOSens® SFC5500 shows a superior performance compared to conventional mass flow controllers with typical repeatability of 0.2% full scale (FS) (Figure 5)

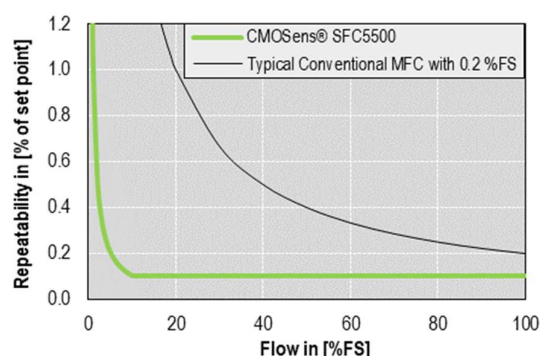


Figure 5: Repeatability comparison of the CMOSens® SFC5500 device compared to a typical thermal mass flow controller.

Accuracy and repeatability at high flows are limited by set point error and at lower end – by full scale error. Figure 6 demonstrates this.

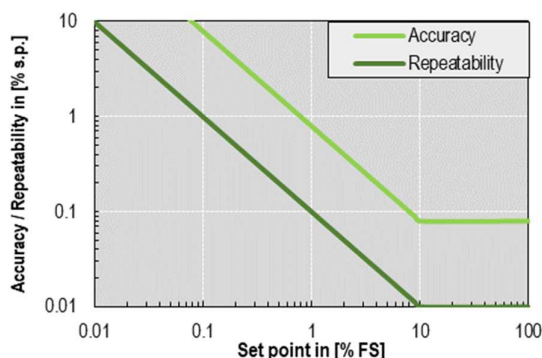


Figure 6 Accuracy and repeatability at different set points.

## 1.4 Settling time

The CMOSens® SFC5500 mass flow controller has an ultra-fast settling time. Figure 7 shows the typical response time of the SFC5500 in comparison to a mass flow controller using conventional sensor technology.

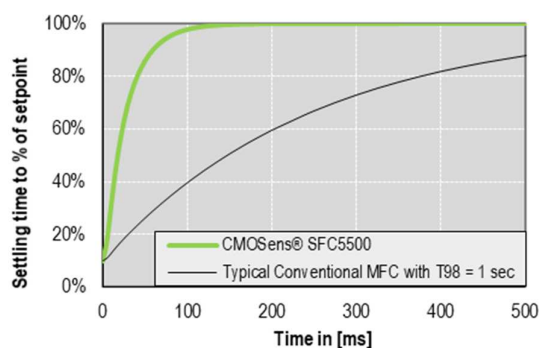


Figure 7: Settling time of the SFC5500 vs. typical thermal mass flow controller.

## 1.5 Wide control range

Ultra-wide control range of the SFC5500 brings a decisive benefit in applications with a wide dynamic range of gas flows. Instead of two devices used for high flow and low flow ranges, a single SFC5500 device can efficiently cover a flow range of three orders of magnitude.

Control range is defined as 1000:1 dynamic range. This means that a mass flow controller can control 0.1% of its full scale flow (e.g. 0.01 slm for 10 slm full scale flow).

## 1.6 Pressure drop

Mass flow controllers need pressurized gas sourced to operate. Pressure drop is generated, when gas passes through a mass flow controller. When evaluating a mass flow controller, it is important to verify that at maximum required flow rate, for a given gas the pressure drop will be smaller than the inlet pressure – otherwise the desired maximum flow rate will not be possible to achieve.

Figure 8 shows the maximum achievable flow for different variants of SFC5500 as a function of pressure drop. %FS refers to the percentage of the Full Scale flow defined for Air/N<sub>2</sub>.

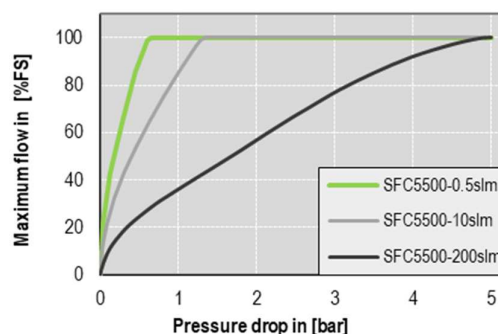


Figure 8 Maximum achievable flow rate at different pressure drops.

At the same setpoint, for gasses heavier than air, the pressure drop would generally be higher. For gasses lighter than air – it would be lower.

## 1.7 Gas recognition

SFC5500 employs gas recognition functionality, which can be implemented by the user to display an alert when an activated calibration does not match the gas in line. For further explanation, please see documentation at [www.sensirion.com/sfc5500](http://www.sensirion.com/sfc5500).

## 2 Construction details

### 2.1 Fittings

SFC5500 is designed with a universal G ¼ flange, which enables an easy exchange of fittings (Figure 9). While mass flow controllers are factory-fitted with Legris connectors, the user can easily exchange the fittings by themselves. This does not impact the performance of mass flow controller. Any fittings compatible with G ¼" flange can be installed. For an example list of compatible fittings, please see the application note on [www.sensirion.com/sfc5500](http://www.sensirion.com/sfc5500).



Figure 9: SFC5500 without the fittings

### 2.2 Packaging principle and sealing

To guarantee a vacuum-proof housing of the sensor and the flow path, several patented technologies are used. The CMOSens® chip itself is placed vacuum-tight in a stainless steel package that is connected via O-ring sealing to the aluminum body. The packaging allows the SFC5500 mass flow controller to operate under high input pressure conditions (10 bar / 145 psi) between gas input and ambient (not the same as 5 bar / 73 psi between gas input/output).

The electrical connection from the chip to the main controller board uses vacuum-tight glass feed through pins. This packaging method ensures high reliability and tightness for all kinds of gases (see Figure 10).

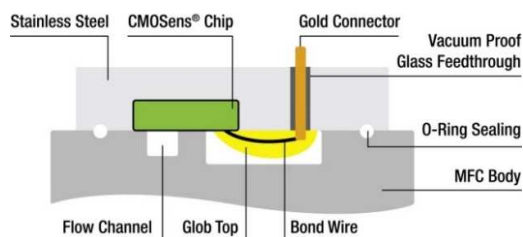


Figure 10: Vacuum-tight glass feed through (longitudinal view)

### 2.3 Wetted materials & compatibility

The packaging method ensures that a minimum number of inert materials are wetted by the media. Table 2 gives an overview of the materials wetted by the gas. For high volume OEM applications different specialized materials for body, valve and sealing can be used with sister variants, SFC5400 or SFC5300.

Table 2: Overview of Wetted Materials.

Part	Wetted Material
Body	Aluminum
Sensor element	Silicon (Si) Silicon oxide (SiOx) Silicon nitride (Si <sub>3</sub> N <sub>4</sub> ) Stainless steel Glass Glob top
Sealing	FKM
Valve	Brass, FKM

### 2.4 Safety instructions

#### 2.4.1 Toxic gases

The whole gas assembly must be checked for leakage before applying toxic gas to the device.

#### 2.4.2 Aggressive or corrosive gases

Please make sure that the gases you use are compatible with the wetted materials listed in this chapter. In case of doubt, please contact Sensirion for further advice.

#### 2.4.3 Explosive gases

The maximum heating energy of the sensor is limited to 12 mW. The CMOSens® sensor element is tested according to EN 50020 chapter 6.2.4 b). Sensirion guarantees the safe use of gases of the classes T1 or T2 (ignition temperature < 300 °C). This includes also mixtures of air or oxygen with hydrogen or hydrocarbons. However, SFC5500 is not designed for the use in hazardous areas (EN 60079-10) where explosive gases can occur outside of the device.



### 3 Electrical and communication specifications

#### 3.1 Connector and pin layout

SFC5500 features the following digital communication interfaces:

- RS485,
- DeviceNet
- IO-Link

Detailed specification of RS485 protocol can be found at [www.sensirion.com/sfc5500](http://www.sensirion.com/sfc5500). DeviceNet and IO-Link protocols require a larger implementation effort and should be considered only in the context of OEM projects.

The electrical connector of the SFC5500 is a standard HD Sub-D 9pin. This enables an easy and reliable universal connection. See the pin layout in Figure 11. **Attention: Do not connect PIN 9, as this might damage the controller.**

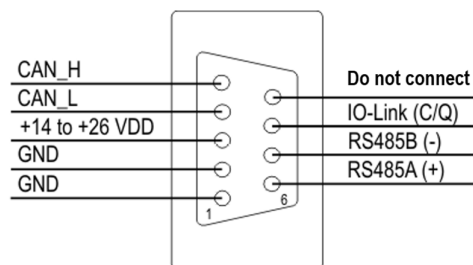


Figure 11: Pinout of the digital interface (RS485, DeviceNet and IO-Link).

#### 3.2 Power supply

The SFC5500 mass flow controller requires a standard voltage supply of +14.0 to + 26.0 VDC. There are no stringent requirements for voltage ripple and stability because of the internal voltage regulation.

#### 3.3 Electrical specifications

Table 3: Electrical characteristics

Parameter	Conditions	Units
Supply Voltage Range (VDD)	Typ. 15.0 – 24.0 Max. 14.0 – 26.4	VDC
Electrical Connector	Sub-D 9pin (male on device)	
PIN 9	Do not connect	-

Table 4: Current consumption

Parameter	Conditions	Typical value (within +/- 5%)		Units
		0.5 slm	10 slm, 200 slm	
Max. Supply Current	VDD = 15 / 24 VDC	180 / 110	320 / 200	mA
Standby current	VDD = 15 / 24 VDC	50 / 35		mA

Table 5: Electromagnetic compatibility

Parameter	Hall mark	Notes	Applied values
Electromagnetic Compatibility / Immunity in Industrial Environment: (EN 61000-6-2)	EN 61000-4-2	Air discharge (ESD)	± 8 kV (air) ± 4 kV (contact)
	EN 61000-4-6	High frequency electromagnetic radiation (HF)	10 V <sub>eff</sub>
	EN 61000-4-4	Fast transients (burst)	± 4 kV

## 4 Physical dimensions and mounting information for SFC5500

Physical dimensions and mounting information for SFC5500 are provided in Figure 12. All drawings are generated from SFC5500 3D models available at [www.sensirion.com/sfc5500](http://www.sensirion.com/sfc5500).

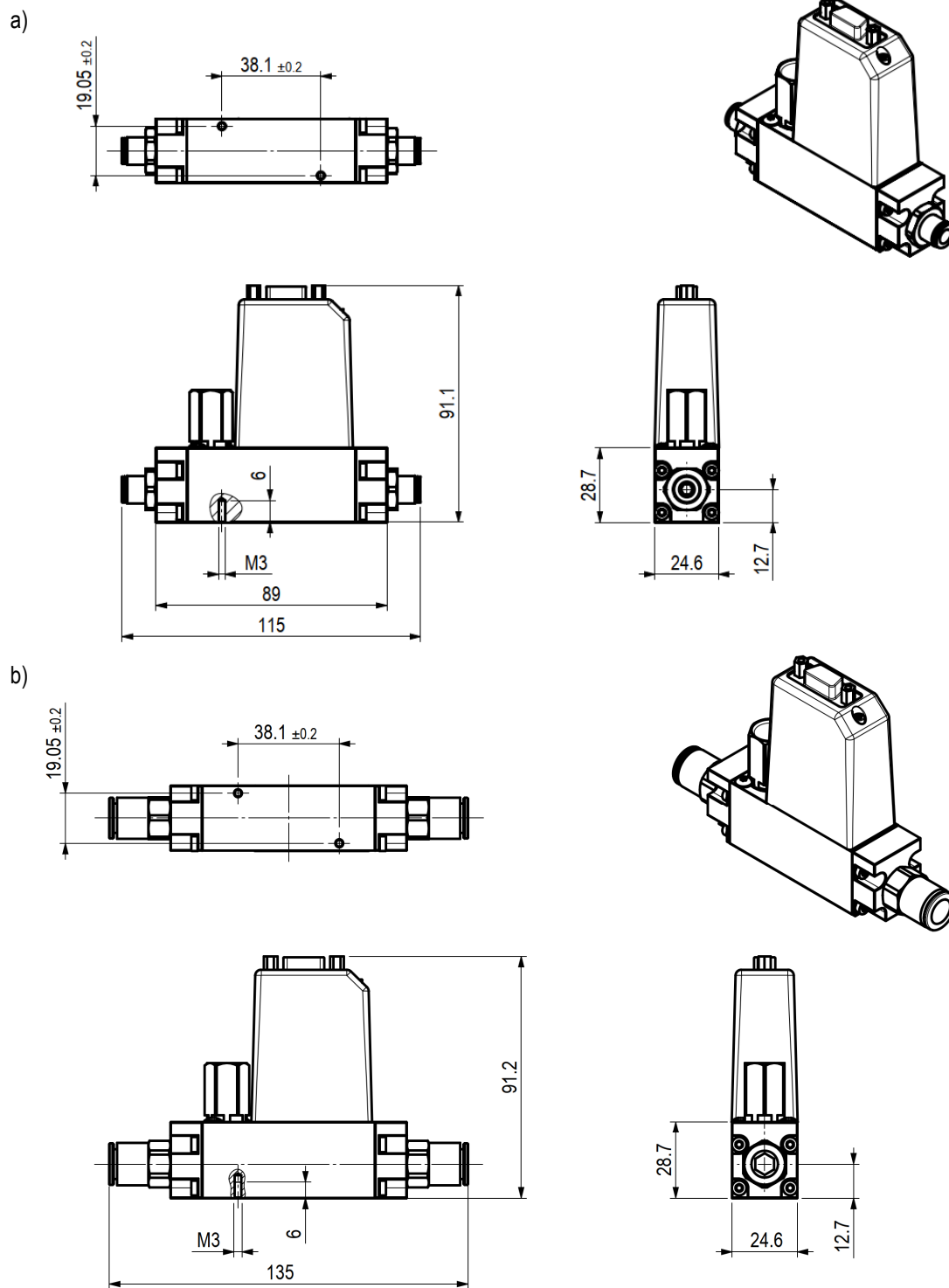


Figure 12: Physical dimensions and mounting information for SFC5500 fitted with a) 6 mm, b) 10 mm Legris connectors. All units are in [mm].



Table 6: Weight

Parameter	Value	Units
<b>Mechanical</b>		
Weight (Legris 6 mm OD)	270	g
Weight (Legris 10 mm OD)	290	g
Weight (without fittings)	250	g

## 5 Flow units

SFC5500 mass flow controllers are calibrated in slm (standard liter per minute) units. Please note the difference between “standard” and “norm” units – both are widely used. The differences between those are highlighted in Table 7: Units for gas flow rates.

Table 7: Units for gas flow rates

Typical flow unit	Reference condition	
	Gas Temperature	Gas Pressure
slm (standard liter per minute)	20 °C / 68° F	1013 mbar / 14.69 psi
sccm (standard cubic centimeter per minute)		
ln/min (norm liter per minute)	0 °C / 32° F	
mln/min (norm milliliter per minute)		

Example: Relationship between:

slm (20°C / 68°F, 1013 mbar)	and	ln/min (0°C / 32°F, 1013 mbar)
1 slm	=	0.932 ln/min
10 slm	=	9.32 ln/min

This relationship is gas independent. The 0.932 factor can be used for any gas.

## 6 OEM options

SFC5500 mass flow controllers are all special versions of Sensirion's SFC5400 platform. The only difference is a slightly longer flanges of SFC5500 to allow for exchangeable fittings. In case SFC5500 does not meet exactly the requirements for a given application, Sensirion recommends looking at SFC5400 mass flow controllers, which are available with a variety of configurations (fittings, flow ranges, calibrations, interfaces) and are generally built on order. SFC5400 and SFC5300 also allow for OEM product developments in the context of high-volume projects. Below, a few OEM options are listed. Please do not hesitate to contact Sensirion AG to discuss your requirements.

OEM options for hardware (different wetted materials):

- Stainless steel body or other materials
- Sealing materials (e.g. EPDM / FFKM)
- Valve materials: Stainless steel, EPDM / FFKM on request

OEM options for calibration:

- Multigas calibration (allows switching between a set of gas calibrations saved in the device memory)
- New gas calibrations

## 7 Ordering codes

Table 8: Products in SFC5500 series

Article	Description	Article number
SFC5500-0.5slm	Digital mass flow controller 0.5 - 0.0005 slm flow range	3.000.547
SFC5500-10slm	Digital mass flow controller 10 - 0.01 slm flow range	3.000.548
SFC5500-200slm	Digital mass flow controller 200 - 0.2 slm flow range	3.000.549
EK-F5x	Plug'n'play evaluation kit (without mass flow controller)	1-101006-01

## 8 Revision history

Date	Version	Page(s)	Changes
April 2021	1	All	First version
August 2021	2	5, 7	Revised wording in section 1.6, corrected connector to "DB9 male"

## Important Notices

### Warning, Personal Injury

**Do not use this product as safety or emergency stop devices or in any other application where failure of the product could result in personal injury. Do not use this product for applications other than its intended and authorized use. Before installing, handling, using or servicing this product, please consult the data sheet and application notes. Failure to comply with these instructions could result in death or serious injury.**

If the Buyer shall purchase or use SENSIRION products for any unintended or unauthorized application, Buyer shall defend, indemnify and hold harmless SENSIRION and its officers, employees, subsidiaries, affiliates and distributors against all claims, costs, damages and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if SENSIRION shall be allegedly negligent with respect to the design or the manufacture of the product.

### ESD Precautions

The inherent design of this component causes it to be sensitive to electrostatic discharge (ESD). To prevent ESD-induced damage and/or degradation, take customary and statutory ESD precautions when handling this product. See application note "ESD, Latchup and EMC" for more information.

### Warranty

SENSIRION warrants solely to the original purchaser of this product for a period of 12 months (one year) from the date of delivery that this product shall be of the quality, material and workmanship defined in SENSIRION's published specifications of the product. Within such period, if proven to be defective, SENSIRION shall repair and/or replace this product, in SENSIRION's discretion, free of charge to the Buyer, provided that:

- notice in writing describing the defects shall be given to SENSIRION within fourteen (14) days after their appearance;
- such defects shall be found, to SENSIRION's reasonable satisfaction, to have arisen from SENSIRION's faulty design, material, or workmanship;
- the defective product shall be returned to SENSIRION's factory at the Buyer's expense; and
- the warranty period for any repaired or replaced product shall be limited to the unexpired portion of the original period.

This warranty does not apply to any equipment which has not been installed and used within the specifications recommended by SENSIRION for the intended and proper use of the equipment. EXCEPT FOR THE WARRANTIES EXPRESSLY SET FORTH HEREIN, SENSIRION MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT. ANY AND ALL WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED AND DECLINED.

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SENSIRION does not assume any liability arising out of any application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. All operating parameters, including without limitation recommended parameters, must be validated for each customer's applications by customer's technical experts. Recommended parameters can and do vary in different applications.

SENSIRION reserves the right, without further notice, (i) to change the product specifications and/or the information in this document and (ii) to improve reliability, functions and design of this product.

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## Headquarters and Subsidiaries

### Sensirion AG

Laubisruetistr. 50  
CH-8712 Staefa ZH  
Switzerland

phone: +41 44 306 40 00  
fax: +41 44 306 40 30  
[info@sensirion.com](mailto:info@sensirion.com)  
[www.sensirion.com](http://www.sensirion.com)

### Sensirion Taiwan Co. Ltd

phone: +886 3 5506701  
[info@sensirion.com](mailto:info@sensirion.com)  
[www.sensirion.com](http://www.sensirion.com)

### Sensirion Inc., USA

phone: +1 312 690 5858  
[info-us@sensirion.com](mailto:info-us@sensirion.com)  
[www.sensirion.com](http://www.sensirion.com)

### Sensirion Japan Co. Ltd.

phone: +81 3 3444 4940  
[info-jp@sensirion.com](mailto:info-jp@sensirion.com)  
[www.sensirion.com/jp](http://www.sensirion.com/jp)

### Sensirion Korea Co. Ltd.

phone: +82 31 337 7700~3  
[info-kr@sensirion.com](mailto:info-kr@sensirion.com)  
[www.sensirion.com/kr](http://www.sensirion.com/kr)

### Sensirion China Co. Ltd.

phone: +86 755 8252 1501  
[info-cn@sensirion.com](mailto:info-cn@sensirion.com)  
[www.sensirion.com/cn](http://www.sensirion.com/cn)

To find your local representative, please visit [www.sensirion.com/distributors](http://www.sensirion.com/distributors)

## FCC and CE statement

The SFC5500 products have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules (FCC CFR 47). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a dealer or an experienced radio/TV technician for help.



The CMOSens® SFC5500 devices fully comply with norm EN 61000-6-1 to EN 61000-6-4 (Immunity and Emission Test Series).



**Sensirion AG**  
 Laubisruetistr. 50  
 CH-8712 Staefa ZH  
 Switzerland

phone: +41 44 306 40 00  
 fax: +41 44 306 40 30  
[info@sensirion.com](mailto:info@sensirion.com)  
[www.sensirion.com](http://www.sensirion.com)

**Sensirion Taiwan Co. Ltd**  
 phone: +886 3 5506701  
[info@sensirion.com](mailto:info@sensirion.com)  
[www.sensirion.com](http://www.sensirion.com)

**Sensirion Inc., USA**  
 phone: +1 312 690 5858  
[info-us@sensirion.com](mailto:info-us@sensirion.com)  
[www.sensirion.com](http://www.sensirion.com)

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[info-jp@sensirion.com](mailto:info-jp@sensirion.com)  
[www.sensirion.com/jp](http://www.sensirion.com/jp)

**Sensirion Korea Co. Ltd.**  
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[info-kr@sensirion.com](mailto:info-kr@sensirion.com)  
[www.sensirion.com/kr](http://www.sensirion.com/kr)

**Sensirion China Co. Ltd.**  
 phone: +86 755 8252 1501  
[info-cn@sensirion.com](mailto:info-cn@sensirion.com)  
[www.sensirion.com/cn](http://www.sensirion.com/cn)

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