



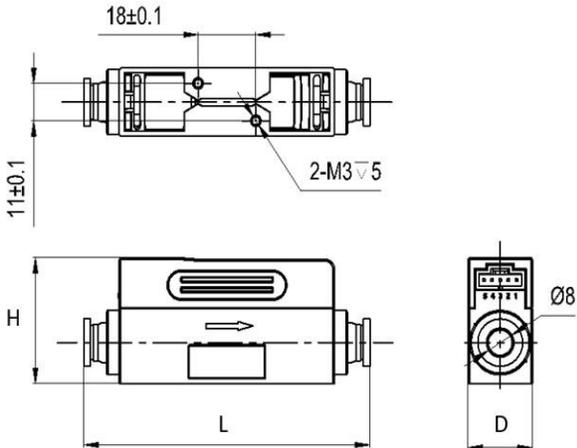
MEMS mass flow sensors With Thermal-D sensing technology

FS4300 Series

FS4300 series mass flow sensors are an upgrade of FS4000 series with Siargo's *Thermal-D* mass flow sensing technology. A proprietary flow conditioning is implemented that allows the ultimate flexibility in connector, even without a straight pipe at both inlet and outlet. It can be readily applied for a variety of applications including medical equipment such as anesthesia, instrumentation, process control, welding gas and gas mixer. The connector can be adjusted for one-touch, compressed fitting, and others for a particular application.

FS4308 series can measure a mass flow of up to 1000 SLPM. The standard electrical switching options are also incorporated, and the products are fully **RoHS** and **REACH** compatible.

Dimensions



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Specifications

Range	0~1...5...10..50	SLPM
Accuracy*	$\pm(1.5+0.15FS)$	%
Total accuracy (0~50°C)	$\pm(4.0+0.25FS)$	%
Repeatability	0.5	%
Operating temperature	-10~60	°C
Pressure range	-50.0 to 1000	kPa
Humidity	<95, no condensation	%RH
Supply voltage	8~28	Vdc
Switch output	NPN or PNP	
Pulse output	0.1 ... 1...10	L
Analog output	1.00±5.00 Vdc or 4...20 mA	
Response time	25.0... 2000	msec
Display option	LED	
Warm-up time	50	msec
Digital output	RS485 Modbus	
Protection	IP40	
Calibration	Air @ 20°C, 101.325 kPa	
Compatibility	RoHS, REACH, CE	

Note: Parameters specified at the calibration conditions.

Product selection

FS4300 -

Connector: O4 or O8 – one-touch 4 or 8mm; R – R ¼".

Full scale flow rate: 1...50

Note: 1. 0.5m data/power cable will be included free of charge.
 2. Vibration: 20g (MIL-STD-883J e/CHANGE 4)
 3. Shock: 30g (MIL-STD-883J e/CHANGE 4)

Electrical Connection



Pin	Conn	Color
1	485B /Vs 2	Blue
2	Vs 1	Green
3	Vout	Red
4	GND	Black
5	485A	Yellow

Connector: AMP MODU MTE
 5-positions or compatible.