



## MEMS differential pressure sensors

FSP1000 series

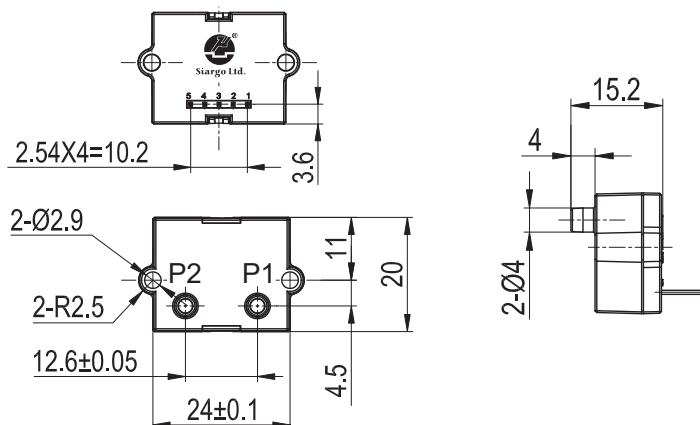
The products are designed for measurement of low differential pressure utilizing the mass flow sensing technology. The pressure sensing ranges can be fully customized with the I<sup>2</sup>C interface.

### Features

- ⦿ Full scale range 100... 500Pa
- ⦿ Compensated linear output
- ⦿ High resolution 16 bit digit I<sup>2</sup>C
- ⦿ Fast response time 5 msec
- ⦿ High sensitivity at low differential pressure

### Applications

- \* HVAC control
- \* Medical CPAP flow metering
- \* Leakage detection
- \* Ventilation monitor and control
- \* Smart home appliances
- \* Gas boiler flow control
- \* Filter clog sensing



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## Specifications

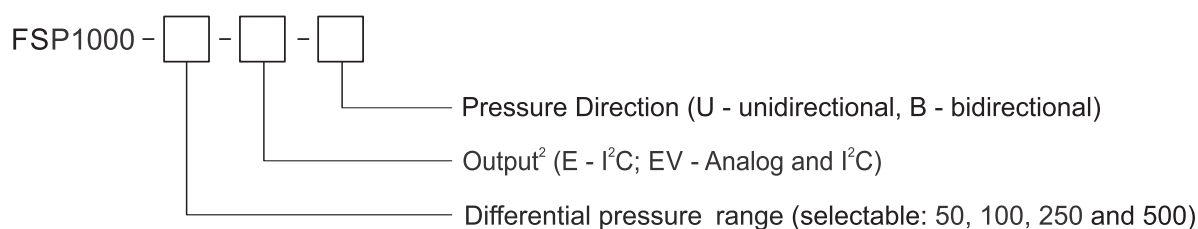
Model	FSP1000	Unit
Pressure range	±50; ±100; ±250; ±500 or unidirectional	Pa
Accuracy	±(2.0+0.8FS)	%
Turn-down ratio	50:1	
Power consumption	≤ 50.0	mW
Response time	5.0	msec
Burst pressure rating	0.2	MPa
Pneumatic flow resistance	<95 mL/min at 500 Pa	
Working temperature	- 5 ~ 65	°C
Power supply	3.0 ~ 3.6	Vdc
Null shift	± 0.5	Pa
Temperature coefficient	± 0.12	%/°C
Output	Linear, I <sup>2</sup> C (14 bit) / Analog 0.4 ~ 2.4 Vdc	
Mechanical connection	V-nozzle, manifold	
Weight	12	g

**Notes:** \* The above parameters are applicable at 20°C and 101.325kPa, air calibration.

\*\* Digital interface can be customized.

## Order information

The sensor part number is composed of the model number and suffixes indicating the full scale pressure rating, output format as well as the calibration. Refer to the followings for details.



1 Numerical differential pressure range only, for example, 250 meaning differential pressure range of 250 Pa.

2 The standard sensors are shipped with I<sup>2</sup>C. Analog output is optional.

- Please find your local sales contact at [www.Siargo.com](http://www.Siargo.com).
- For detailed product information or user manual please contact manufacturer.